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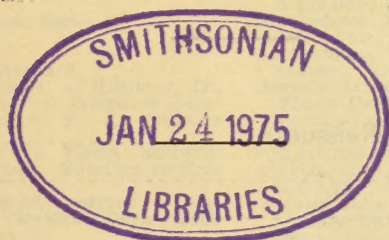
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## PATENTS ISSUED

Patents .....	20,149—No. 2,413,675 to No. 2,433,823 inclusive. <sup>1</sup>
Designs .....	2,102—No. 146,175 to No. 148,266 inclusive.
Reissues .....	130—No. 22,827 to No. 22,956 inclusive.
Plant Patents .....	52—No. 722 to No. 773 inclusive.

<sup>1</sup> Includes 10 withdrawn.



# 1947

## LIST OF PATENTEEES

This list includes reissue patentees.

Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

- A. C. E. Machinery Limited, assignee: *See—*  
Evans, Percy N.
- ACF-Brill Motors Company, assignee: *See—*  
Chapman, James F.  
Flogaus, Howard A.  
Flogaus, Howard A., and Vogt.
- A G E V Aktiengesellschaft für Erfindungsverwertung,  
assignee: *See—*  
Esnault-Pelterie, Robert.
- A.-G. Für Mechanisch-Optische Erfindungen, assignee:  
*See—*  
Butscher, Karl.
- A. P. W. Products Co., Inc., assignee: *See—*  
O'Neil, William J.
- Aagaard, Leif: *See—*  
Cauwenberg, Winfred J., and Aagaard.
- Aamodt, Thoralf, Bernardville, and H. A. Hilsinger, Jr.,  
East Orange, N. J., assignors to Bell Telephone Laboratories,  
Incorporated, New York, N. Y. Air pressure seal. 2,430,445; Nov. 11.
- Aandewiel, Cornelis J., assignor to Firma Eerhard-  
Aandewiel, Wassenaar, Netherlands. Rotating electric  
liquid switch. 2,428,589; Oct. 7.
- Abbe, Edward J., Cleveland Heights, assignor to The  
Ellwell-Parker Electric Company, Cleveland, Ohio. Truck  
hoist mechanism. 2,419,938; May 6.
- Abbe, Edward J., Cleveland Heights, assignor to The Ell-  
well-Parker Electric Company, Cleveland, Ohio. Steering  
mechanism for industrial trucks. 2,429,302; Oct.  
21.
- Abbe, Paul O., Inc., assignee: *See—*  
Osborne, Chester E.
- Abbink-Spaink, Johann H.: *See—*  
Ingoldby, Maurice K., and Abbink-Spaink.  
Ingoldby, Maurice K., Abbink-Spaink, and Spencer.
- Abbott, Claude H., Astoria, Oreg. Can dumping mecha-  
nism. 2,413,900; Jan. 7.
- Abbott, Edward J., assignor to Abbott Machine Company,  
Wilton, N. H. Packaging and using yarn. 2,415,075;  
Feb. 4.
- Abbott, Edward J., and W. L. Perry, assignors to Abbott  
Machine Company, Wilton, N. H. Winding machine.  
2,426,167; Aug. 26.
- Abbott, Edward J., and W. L. Perry, assignors to Abbott  
Machine Company, Wilton, N. H. Winding machine.  
2,426,168; Aug. 26.
- Abbott, Ernest V., Chicago, Ill. Safety pin. 2,429,337;  
Oct. 21.
- Abbott Laboratories, assignee: *See—*  
Moore, Marjorie B. and E. E.  
Rundell, James E., and Aho.
- Abbott Laboratories, Inc., assignee: *See—*  
Weston, Arthur W., and Hoffman.
- Abbott Machine Company, assignee: *See—*  
Abbott, Edward J.
- Abbott, Edward J., and Perry.
- Abbott, Royal K., Jr., and E. A. Kern, Pittsfield, Mass.,  
assignors to General Electric Company. Vinylfluorenes  
and preparing the same. 2,427,337; Sept. 16.
- Abbott, Walter D., assignee: *See—*  
Parizo, Bert.
- Abbotts Dairies, Incorporated, assignee: *See—*  
McCaughy, Joseph.
- Abbrecht, Hermann R., Shaker Heights, assignor to The  
Osborn Manufacturing Company, Cleveland, Ohio.  
Power transmission mechanism. 2,424,873; July 29.
- Abel, Eugene V.: *See—*  
Hodgson, Jack E., and Abel.
- Abeles, Paul, Vienna, Austria, and E. Braunbock, Dugaresa,  
near Karlovac, Yugoslavia. Hollow centrifugally mold-  
ed beam. 2,428,304; Sept. 30.
- Abell, Rollin, Fort Lauderdale, Fla. Carburetor. 2,432,980;  
Dec. 23.
- Abell, Royal A., Richmond, Va. Cartridge. 2,415,803;  
Feb. 18.
- Abernathy, Clyde G., Rochester, assignor of one-half to  
A. L. Blades, Hornell, N. Y. Applying composite sur-  
facing materials to a bituminous base. 2,413,901;  
Jan. 7.
- Abernathy, David W., Chicago, Ill., assignor, by mesne  
assignments, to Helene Curtis Industries, Inc. Fluor-  
escent illumination. 2,422,280; June 17.
- Abington Textile Machinery Works, assignee: *See—*  
Clark, Ernest.  
Goldsmith, William H., Jr.  
White, Charles E., and Clark.
- Abisch, Osias: *See—*  
Scott, Kenneth M., and Abisch.
- Ablett, Charles Antony, King's Lynn, England. Roller  
bearing. 2,418,859; Apr. 15.
- Abraham, David: *See—*  
Greene, Gardiner G., and Abraham.
- Abraham, Wayne G., East Hempstead, N. Y., assignor to  
Sperry Gyroscope Company, Inc. Automatic landing  
system. 2,429,595; Oct. 28.
- Abrahams, Samuel A., Berkeley, R. Lewon, Orinda, and  
A. M. Dinkfeld, Menlo Park, assignors, by mesne assign-  
ments, to The Paraffine Companies, Inc., San Francisco,  
Calif. Making calcareous-silicious insulating units.  
2,432,981; Dec. 23.
- Abrahamson, Edmund, Baldwin, N. Y. Self-reversing elec-  
tric motor. 2,432,464; Dec. 9.
- Abrahamson, William, Chicago, Ill. Refrigerated display  
cabinet. 2,418,062; Mar. 25.
- Abrams, Armand J., C. O. Baker, C. S. Kuhn, Jr., and L. G.  
Sharp, Dallas, Tex., assignors, by mesne assignments, to  
Socony-Vacuum Oil Company, Incorporated, New York,  
N. Y. Impregnating lime particles with carbon.  
2,414,625; Jan. 21.
- Abrams, George, Great Neck, N. Y. Weather stripping.  
2,428,731; Oct. 7.
- Abrams, John R.: *See—*  
Gans, David M., and Abrams.
- Abrams, Ralph, Fresno, Calif. Armature winding head  
assembly. 2,414,218; Jan. 14.
- Abrams, Victor R., Maplewood, N. J. Dishwashing ma-  
chine. 2,426,291; Aug. 26.
- Abramson, Harold A.: *See—*  
Brown, Ethan A., Gorin, and Abramson.
- Abramson, Harold A., New York, N. Y. Solutions for the  
improved nebulization therapy of the lungs and bron-  
chioles. 2,414,918; Jan. 28.
- Abramson, Harold A., New York, N. Y. Gelatin vehicle.  
2,415,719; Feb. 11.
- Abramson, Harold A., New York, N. Y. Glycine-calcium  
carbonate antacid. 2,429,596; Oct. 28.
- Abramson, Harry L., Idaho Falls, Idaho. Turkey saddle.  
2,416,726; Mar. 4.
- Abramson, Seth, Renton, Wash. Lubricating fitting cap.  
2,430,441; Nov. 11.
- Abruzzi, Gail C. and M. T., Chicago, Ill. Drafting instru-  
ment. 2,418,860; Apr. 15.
- Abruzzi, Marie T.: *See—*  
Abruzzi, Gail C. and M. T.
- Accessories, Inc., assignee: *See—*  
Archer, William J.
- Acco, Products, Inc., assignee: *See—*  
Meyer, Howard G.
- Accousti, Nicholas J.: *See—*  
Thompson, Marvin R., Accousti, and Ichniowski.
- Ace Glass Incorporated, assignee: *See—*  
De Woody, Charles M.
- Ace Manufacturing Corporation, assignee: *See—*  
Jones, George M.
- Ace Storm Window Company, assignee: *See—*  
Krantz, Walter M.
- Aceves, Julius G.: *See—*  
Amy, Ernest V., and Aceves.
- Acheson, Ernest, Cleveland, Ohio. Collapsible top for  
vehicles. 2,423,748; July 8.
- Acheson, Ernest, Cleveland, Ohio. Vehicle top.  
2,430,442; Nov. 11.
- Ackerman, James E., Devon, Conn., assignor to The Singer  
Manufacturing Company, Elizabeth, N. J. Binder at-  
tachment for sewing machines. 2,428,952; Oct. 14.
- Acme Aluminum Alloys, Inc., assignee: *See—*  
Cooper, Hugh S.
- Acme Electric Corporation, assignee: *See—*  
Comstock, James A.
- Acme Industrial Company, assignee: *See—*  
Gabriel, Adam.
- Acme Knitting Machine & Needle Company, assignee:  
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Currier, Arthur.
- Acme Laboratory Equipment Co., assignee: *See—*  
Long, Herbert J.
- Acme Metal Goods Manufacturing Co., assignee: *See—*  
Gamache, Homer.
- Acme Shoulder Pad Co. Inc., assignee: *See—*  
Barritz, Albert.
- Acme Steel Company, assignee: *See—*  
Spiller, William R., and Niederhauser.
- Acorn Designing Co., assignee: *See—*  
Barrie, Arthur J., and Dwyer.
- Acres, Richard L., assignor to W. F. Curlee, Houston,  
Tex. Conduit coupling. 2,426,332; Aug. 26.



- Acrotorque Company, The, assignee: *See*—  
Orshansky, Elias, Jr.
- Acteson, John J., Auburn, Wash. Demountable pallet crib. 2,420,640; May 20.
- Actiengesellschaft Joh. Jacob Rieter & Cie, assignee: *See*—  
Preysch, Friedrich.
- Acton, Russel D., Danville, Ill. Snow vehicle. 2,419,522; Apr. 29.
- Acton, Russel D., Chicago, Ill. Motor vehicle of the endless tread type. 2,423,544; July 8.
- Acton, Russel D., Chicago, Ill., assignor to International Harvester Company. Control means for tractor-connected implements. Re. 22,932; Nov. 11.
- Acton, Russel D., Chicago, Ill., assignor to International Harvester Company. Implement adjusting mechanism. 2,430,597; Nov. 11.
- Acton, Russel D., Chicago, Ill., assignor to International Harvester Company. Power lift device for tractors. 2,430,696; Nov. 11.
- Actrol Incorporated, assignee: *See*—  
De Neergaard, Lelf E.
- Adair, George A., Elmira, N. Y. Fishhook retaining clip. 2,419,753; Apr. 29.
- Adair, Paul F., Dayton, Ohio. Carburetor. 2,419,523; Apr. 29.
- Adair, Paul F., Dayton, Ohio. Water injection system. 2,431,679; Dec. 2.
- Adair, Paul F., and L. E. Bogue, assignors to Bendix Aviation Corporation, South Bend, Ind. Carburetor valve. 2,414,577; Jan. 21.
- Adam, Frank, Electric Company, assignee: *See*—  
Adam, Frederick B., Green, and Stieglitz, Henry M.
- Adam, Frederick B., St. Louis County, F. S. Green, and H. M. Stieglitz, assignors to Frank Adam Electric Company, St. Louis, Mo. Circuit interrupting device. 2,424,909; July 29.
- Adam, Robert, St. Louis, Mo. Securing means or fastener for covers of burial vaults. 2,415,398; Feb. 11.
- Adams, Arben H., North Hollywood, Calif., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Polar relay. 2,431,444; Nov. 25.
- Adams, Arthur R., Glendale, Calif. Fastener. 2,420,060; May 6.
- Adams, Arthur R., Glendale, Calif. Fastener. 2,420,061; May 6.
- Adams, Arthur T., Oak Park, Ill. Roller stippler. 2,428,953; Oct. 14.
- Adams, Charles, Jr., Crton-on-Hudson, N. Y. Pipe coupling. 2,424,542; July 29.
- Adams, Chester E.: *See*—  
Johnson, Carl E., and Adams.
- Adams, Chester E., Highland, and T. B. Tom, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Refining hydrocarbon distillates. 2,413,938; Jan. 7.
- Adams, Chester E., Highland, and T. B. Tom, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Mercaptan extraction. 2,425,776; Aug. 19.
- Adams, Chester E., Highland, and T. B. Tom, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Extraction of mercaptans from hydrocarbon oil. 2,425,777; Aug. 19.
- Adams, Chester E., Highland, and T. B. Tom, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Removing weakly acidic substances from oils. 2,427,083; Sept. 9.
- Adams, Clyde S., Yellow Springs, assignor to The National Cash Register Company, Dayton, Ohio. Making the methyl ester of m-dimethylamino benzoic acid. 2,415,230; Feb. 4.
- Adams, Clyde S., Yellow Springs, assignor to The National Cash Register Company, Dayton, Ohio. 3,3 bis (4 dimethylaminophenyl) 6-dimethylaminophenyl phthalide. 2,417,897; Mar. 25.
- Adams, Comfort A., Philadelphia, and H. A. Strickland, Jr., Detroit, Mich., assignors to The Budd Company, Philadelphia, Pa. Welded structure. 2,415,573; Feb. 11.
- Adams, Comfort A., Germantown, and J. R. Fetcher, Rosemont, Pa., and G. Stocker, Audubon, N. J., assignors to The Budd Company, Philadelphia, Pa. Alternating current bus bar construction. 2,416,670; Mar. 4.
- Adams, David, Detroit, Mich. Demountable wheel. 2,421,176; May 27.
- Adams, Douglas D., and K. Rollius, assignors to Old King Cole, Incorporated, Canton, Ohio. Making laminated corrugated articles. 2,422,998; June 24.
- Adams, Douglas D., and K. Rollius, assignors to Old King Cole, Incorporated, Canton, Ohio. Material carrying platform. 2,432,849; Dec. 16.
- Adams, Elliot Q.: *See*—  
Stone, Joseph E., and Adams.
- Adams, Floyd W., assignor to Los Angeles Paper Box Factory, Los Angeles, Calif. Apparatus for drying webs by radiant and convection heating. 2,427,892; Sept. 23.
- Adams, Floyd W., assignor to Los Angeles Paper Box Factory, Los Angeles, Calif. Drum drier for web with radiant heater. 2,429,338; Oct. 21.
- Adams, Frederic H.: *See*—  
Conn, Robert C., Adams, and Goulding.
- Adams, Frederick H.: *See*—  
Klenie, Roy H., and Adams.
- Adams, George P., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Core covering apparatus with tension controlling and stopping means. 2,425,977; Aug. 19.
- Adams, Harold E., assignor to Nash Engineering Company, South Norwalk, Conn. Pump. 2,433,589; Dec. 30.
- Adams, Harry L., Denver, Colo., assignor to Adams Retouching Machine Company. Photographic retouching device. 2,422,174; June 17.
- Adams, Jerome J., assignee: *See*—  
Siegel, Sam.
- Adams, Joseph, Chicago, Ill., assignor, by mesne assignments, to Regents of the University of Minnesota, Minneapolis, Minn. Producing crystals of nordihydroguaiaretic acid. 2,421,109; May 27.
- Adams, Joseph N., Orange, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Brace for boxed produce loads. 2,419,754; Apr. 29.
- Adams, Koy E., Shelbyville, Tenn. Tire drier. 2,428,732; Oct. 7.
- Adams, Leon M.: *See*—  
Gerhart, Howard L., and Adams.
- Adams, Paul R.: *See*—  
Deloraine, Edmond M., and Adams.
- Adams, Pierrepont: *See*—  
Swain, Robert C.
- Adams Retouching Machine Company, assignee: *See*—  
Adams, Harry L.
- Adams, Robert T., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for insulating conductors. 2,422,281; June 17.
- Adams, Robert T., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Article forming apparatus. 2,422,282; June 17.
- Adams, Robert T., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Stroboscopic cathode-ray oscilloscope system for comparing two frequencies. 2,426,721; Sept. 2.
- Adams, Robert T., Baltimore, Md., and J. A. Wagner, Cleveland Heights, Ohio, assignors to Western Electric Company, Incorporated, New York, N. Y. Cord manufacturing apparatus. 2,415,399; Feb. 11.
- Adams, Robert T., Baltimore, Md., and J. A. Wagner, Cleveland Heights, Ohio, assignors to Western Electric Company, Incorporated, New York, N. Y. Conveyer and unloading apparatus. 2,426,169; Aug. 26.
- Adams, Roger, Urbana, Ill. Optically active tetrahydrodibenzopyrans having marihuana activity and making same. 2,419,934; May 6.
- Adams, Roger, Urbana, Ill. Marihuana active compounds. 2,419,935; May 6.
- Adams, Roger, Urbana, Ill. Preparation of compounds with marihuana activity. 2,419,936; May 6.
- Adams, Roger, Urbana, Ill. Marihuana active compounds. 2,419,937; May 6.
- Adams, Roy L., and L. Zickrick, Schenectady, N. Y., assignors to General Electric Company. Contact element. 2,418,811; Apr. 15.
- Adams, William H., Jr., assignor to Haveg Corporation, Newark, Del. Preparing furfuryl alcohol resins. 2,416,038; Feb. 18.
- Adams, William H., Jr., assignor to Haveg Corporation, Newark, Del. Making a phenol formaldehyde molding composition. 2,424,787; July 29.
- Adamson, Arthur P., Ballston Spa, N. Y., assignor to General Electric Company. Self-synchronous system for transmitting angular motion. 2,420,160; May 6.
- Adamson, Arthur P., Schenectady, N. Y., assignor to General Electric Company. Winding of electric machines. 2,432,267; Dec. 9.
- Adamson, Paul M., Detroit, Mich. Piston ring. 2,418,243; Apr. 1.
- Adamson United Company, assignee: *See*—  
Von der Heide, Elmer J.
- Addicks, Walter E., Irvington, N. Y., and R. O. Perrine, Wauwatosa, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Machine tool controller. 2,418,149; Apr. 1.
- Addington, Loyal R., Detroit, Mich., assignor to Art Metal Construction Company, Jamestown, N. Y. File or index label holder. 2,432,493; Dec. 16.
- Addison-Semmes Corporation, assignee: *See*—  
Donahue, William T.
- Addressograph-Multigraph Corporation, assignee: *See*—  
Allen, William R., and Sand.  
Arnason, Arni.  
Comegys, Courtney L.  
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Hueber, Carl J.  
Hueber, Carl J., and Hampton.  
Janke, Edward J.  
Nau, Wilmer H.  
Schultz, Elmer A.
- Adel Precision Products Corp., assignee: *See*—  
Bell, Arthur A.  
Berry, Reni S.  
Brant, Walter R.  
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Eggert, Ronald E., and Brose.



- Adel Precision Products Corp., assignee: *See*—Continued  
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 Hunter, Frank B.  
 Kehle, Ottmar A.  
 Kremiller, Arthur E.  
 Morehouse, Eugene M.  
 Robertson, Archibald.  
 Robertson, Archibald, and Merritt.  
 Van Der Werff, Jacob B.
- Adelson, David E.: *See*—  
 Hatch, Lewis F., Adelson, and Blackburn.
- Adelson, David E., and H. F. Gray, Jr., Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif. Hydrogenation of polyallyl alcohol. 2,414,578; Jan. 21.
- Adelson, David E., and H. F. Gray, Jr., Berkeley, assignors to Shell Development Company, San Francisco, Calif. Polymeric allyl-type compounds and derivatives thereof. 2,426,913; Sept. 2.
- Aden, Per E., assignor to Kenmore Builders Supply Co., Inc., Buffalo, N. Y. Self-adjusting sump pipe. 2,429,541; Oct. 21.
- Adhesive Development Co., assignee: *See*—  
 Avery, Ray S.
- Adhesive Products Company, assignee: *See*—  
 Redfern, Donald V.
- Adlake Company, The, assignee: *See*—  
 Larson, Carl H.  
 Wendland, John A.
- Adler, Arthur H.: *See*—  
 Adler, Jesse and A. H.
- Adler, Charles, Jr., Baltimore, Md. Airplane horn. 2,432,078; Dec. 9.
- Adler, Erich, Lidingo, near Stockholm, Sweden, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Diaryldialkyl-ethane derivatives and the manufacture of same. 2,421,402; June 3.
- Adler, Erich, G. J. Gie, and H. von Euler, Stockholm, Sweden, assignors to Hoffman-La Roche Inc., Nutley, N. J. Manufacture of compounds of  $\alpha,\beta$ -(p,p'-dihydroxydiaryl)- $\alpha,\beta$ -dialkyl-alkyl and alkylene. 2,421,401; June 3.
- Adler, Herbert M., executor, assignee, et al.: *See*—  
 Adler, Jesse and A. H.
- Adler, Howard, Flossmoor, Ill., assignor to Victor Chemical Works. Treatment of tricalcium phosphate for improving fluorine adsorptiveness. 2,417,462; Mar. 18.
- Adler, Howard, Flossmoor, Ill., assignor to Victor Chemical Works. Stable iodized calcium phosphate. 2,417,804; Mar. 25.
- Adler, Jesse and A. H.; A. H. and H. M. Adler, and A. Lichtig, executors of said J. Adler, deceased, assignors to A. H. and H. M. Adler, New York, N. Y. Height increasing device for footwear. 2,433,329; Dec. 30.
- Adler, Orville E., Niles, Mich., assignor to National Standard Company. Electrodepositing copper upon steel wire. 2,420,291; May 13.
- Adler, Ralph, Port Chester, assignor to Mary Brosnan, Inc., New York, N. Y. Mannikin support. 2,418,216; Apr. 1.
- Adler, Robert, Chicago, and J. G. Prentiss, Berwyn, Ill., assignor to Zenith Radio Corporation. High gain amplifier. 2,426,681; Sept. 2.
- Adolf, Louis L., New York, N. Y. Fire alarm. 2,430,850; Nov. 18.
- Adorjan, Paul, Kingston Hill, assignor, by mesne assignments, to Communication Patents Limited, London, England. Apparatus for radio direction finding and indicating. 2,416,727; Mar. 4.
- Adriansen, John R., Cincinnati, Ohio, and R. N. Eck, Whitefish Bay, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Thermal responsive element. 2,418,150; Apr. 1.
- Adrias, Venancio, II, Washington, D. C. Fid for splicing rope. 2,423,673; July 8.
- Aeppli, Albert, assignor to Maag-Zahnrad und Maschinen Aktiengesellschaft, Zurich, Switzerland. Gear cutting machine for spur and screw. 2,414,283; Jan. 14.
- Aerial Products, Inc., assignee: *See*—  
 Dwyer, Martin.
- Aero-Coupling Corporation, assignee: *See*—  
 Burckle, Arthur A.
- Aerodynamic Research Corporation, assignee: *See*—  
 Beverlin, Robert S.
- Aerofet Engineering Corporation, assignee: *See*—  
 Large Charles B., Zucrow, and Hirsch.  
 Malina, Frank J., and Summerfield.  
 Rutishauser, Hans.  
 Rutishauser, Hans, Brumfield, and Zwicky.  
 Van Dorn, William E.  
 Wolfe, Charles M.
- Aero Metal Products Corporation, assignee: *See*—  
 Dodgege, Carl.
- Aeronautical & Mechanical Investments Limited, assignee: *See*—  
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- Aero Survey Corporation: *See*—  
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- Aerovox Corporation, assignee: *See*—  
 Burton, Harry H.  
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 Schmitt, Frank R.
- Aeschbach, Max E., Pompton Plains, N. J., assignor to Norda Essential Oil & Chemical Company, Inc., New York, N. Y. Esterification of terpene alcohols. 2,423,545; July 8.
- Aetna Ball & Roller Bearing Co., assignee: *See*—  
 Rozner, Joseph J.
- Affleck, Theodore H., North Hollywood, assignor, by mesne assignments, to W. A. Cooke, Hollywood, Calif. Fluid pressure brake for vehicles. 2,426,660; Sept. 2.
- African Sisal & Produce Company Limited, assignee: *See*—  
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- Aga-Baltic Aktiebolag Stockholm, assignee: *See*—  
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- Agamate, Edward, Jr., assignor to Fort Howard Paper Company, Green Bay, Wis. Follower retainer for napkin dispensers. 2,426,136; Aug. 19.
- Agency Paper Company, assignee: *See*—  
 Cohen, Meyer.
- Ageroll, William C.: *See*—  
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- Agett, Albert H.: *See*—  
 Hull, David C., and Aggett.
- Agett, Albert H., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Reacting a ketene with an alpha, beta unsaturated aldehyde. 2,421,976; June 10.
- Agins, George: *See*—  
 Davis, Arthur P., and Agins.
- Agins, George, Brooklyn, N. Y., assignor to Arma Corporation. Electrohydraulic position control. 2,421,230; May 27.
- Agnew, Albert B., Indiana, Pa., and F. J. Reff, Chicago, Ill. Blast furnace bottom. 2,418,742; Apr. 8.
- Agnew, Albert B., and F. J. Rief, Chicago, Ill. By-product coke oven wall construction. 2,433,253; Dec. 23.
- Agnew, Robert J., Beacon, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Bituminous coating compositions and processes. 2,430,546; Nov. 11.
- Ågren, Per H. W., Nynashamn, Sweden, assignor to A. Johnson & Co., New York, N. Y. Refining hydrocarbons. 2,422,875; June 24.
- Ågren, Per H. W., Nynashamn, Sweden, assignor to A. Johnson & Co., New York, N. Y. Catalytic cracking of petroleum hydrocarbons. 2,423,674; July 8.
- Agriculture, United States of America, as represented by the Secretary of: *See*—  
 Ambler, Joseph A., and Roberts.  
 Aronovsky, Samuel I., Talburt, and Lathrop.  
 Bice, Claude W., and McMasters.  
 Burnett, Raymond S., and Roberts.  
 Coghill, Robert D., and Moyer.  
 Cowan, John C., and Wheeler.  
 Dworschack, Robert G., and Burdick.  
 Evans, Cyril D., and Ofelt.  
 Fein, Martin L., and Fisher.  
 Filachione, Edward M., and Fisher.  
 Fleck, Elmer E.  
 Georges, Louis W.  
 Georges, Louis W., and Hamalainen.  
 Gertler, Samuel I., and Haller.  
 Goldblatt, Leo A.  
 Goldthwait, Charles F., Smith, and Barnes.  
 Griffin, Edward L., Jr.  
 Haller, Herbert L. J.  
 Jones, Howard A., and Bushland.  
 La Forge, Frederick B.  
 La Forge, Frederick B., and Barthel.  
 Lundgren, Harold P.  
 McKennon, Forrest L., and Lindquist.  
 Morell, Samuel A.  
 Oldroyd, Dorothy M., Savich, and Goldblatt.  
 Rehberg, Chessie E., and Fisher.  
 Smith, Claude R.  
 Stamm, Alfred J., and Tarkow.  
 Tanner, Fred W., Jr., and Van Lanen.  
 Van Atta, George R., and Houston.  
 Wachtel, Jacques L.  
 Watson, Paul D.  
 Wickerham, Lynferd J.  
 Woodward, Charles F., Badgett, and Haines.
- Ahearn, John F., assignee: *See*—  
 Coggins, George F., and Ahearn.
- Ahlberg, Jacob E., and C. L. Thomas, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbon oils. 2,428,257; Sept. 30.
- Ahlen & Ackerlunds Forlag, assignee: *See*—  
 Petren, Torsten S. A., and Sternberg.
- Aho, Taisto A.: *See*—  
 Rundell, James E., and Aho.
- Aichinger, Joseph F., assignor to Molded Insulation Company, Philadelphia, Pa. Removable insulating closure member for electrical devices. 2,414,846; Jan. 28.
- Aiken, Thomas M., Pittsburgh, Pa. Rotary shutter. 2,429,972; Nov. 4.
- Aiken, Thomas M., Pittsburgh, Pa., assignor to S. Hornstein, Chicago, Ill. Light-excluding seal for film packs. 2,423,573; July 8.
- Aiken, William R., Berkeley, Calif. Electrical timing system. 2,433,254; Dec. 23.



- Aircraft & Diesel Equipment Corporation, assignee: *See—*  
Garday, Louis J.
- Aircraft Hydraulic Appliances Limited, assignee: *See—*  
Wylie, Hamilton N.
- Aircraft-Marine Products Inc., assignee: *See—*  
Macy, James C.
- Aircraft Tools, Inc., assignee: *See—*  
Crump, Woodford J.
- Airdesign & Fabrication, Inc., assignee: *See—*  
Pamphilon, Leon E.
- Air-Maze Corporation, assignee: *See—*  
Behlen, Robert A.  
Glanzer, Clarence J.  
Matlock, Henry W.  
Walton, George M., and Matlock.
- Air Preheater Corporation, The, assignee: *See—*  
Jensen, Arthur, and Holm.  
Karlsson, Per H., and Vickland.
- Air Reduction Company, assignee: *See—*  
Walker, George L.
- Air Reduction Company, Incorporated, assignee: *See—*  
Anderson, James L.  
Balcar, Frederick R.  
Crowe, John J.  
Cushman, Everett H.  
Deming, George M.  
Dennis, Wolcott.  
Hamilton, James K.  
Heldbrink, Jay A.  
Helmkamp, Richard F.  
Hoover, Charles O.  
Horney, Amos G., and Shukys.  
Hughey, Howard G.  
Hull, David C.  
Klinke, Henry O.  
Longley, Raymond I., Jr.  
McKiernan, James D.  
Merkt, Joseph X.  
Metzger, Floyd J.  
Miller, Hoke S.  
Smith, Donald L.  
Tollefson, Richard C.  
Tyner, Joseph M.  
Van Nuys, Claude C.  
Walker, George L.
- Air-Way Electric Appliance Corporation, assignee: *See—*  
Fraser, Malcolm W.
- Aitchison, Adam G., Westfield, N. J., assignor to Westvaco Chlorine Products Corporation, New York, N. Y. Rapidly soluble tetrasodium pyrophosphate. 2,427,642; Sept. 16.
- Aitken, William J.: *See—*  
Platt, Edward V., and Aitken.
- Ajax-Consolidated Company, assignee: *See—*  
Bretz, Frank E., Jr., and Nardulli.
- Ajax Engineering Corporation, assignee: *See—*  
Tama, Manuel, and M.
- Ajax, Eric J., Minneapolis, Minn. Garment hanger. 2,431,976; Dec. 2.
- Ajax Thermostatic Controls Co., The, assignee: *See—*  
Schickler, Albert C.
- Akerman, John D., and M. Schonberg, Minneapolis, Minn. Clamp-sealed joint construction for aviator's suits. 2,421,533; June 3.
- Akerman, John D., and J. F. Piccard, assignors to Regents of the University of Minnesota, Minneapolis, Minn. Conversion apparatus. 2,423,631; July 8.
- Akers, Raymond F., San Diego, Calif. Grinding wheel arbor. 2,426,170; Aug. 26.
- Aklin, George H., assignor to Eastman Kodak Company, Rochester, N. Y. Camera objective lenses. 2,430,548; Nov. 11.
- Akse, Hendrik, Eindhoven, Netherlands. Armchair. 2,428,190; Sept. 30.
- Aktiebolaget Atvidabergs Industrier, assignee: *See—*  
Lidin, Sigfrid E.  
Sieurin, Sven.
- Aktiebolaget C. E. Johansson, assignee: *See—*  
Nilsson, Nils A. H., and Dahlbom.
- Aktiebolaget Cryptoteknik, assignee: *See—*  
Johansson, Carl A.
- Aktiebolaget Elektrolux, assignee: *See—*  
Bäckström, Sigurd M., and Köhler.
- Aktiebolaget Facit, assignee: *See—*  
Grip, Erik, and Toorell.
- Aktiebolaget Formator, assignee: *See—*  
Granstedt, Karl E.
- Aktiebolaget Gotaverken, assignee: *See—*  
Johansson, Johan E.
- Aktiebolaget Gylling & Co., assignee: *See—*  
Eklöv, David.
- Aktiebolaget Kamyra, assignee: *See—*  
Richter, Johan C. F. C.
- Aktiebolaget Latex, assignee: *See—*  
Blomberg, Lars E. J.
- Aktiebolaget Ljungströms Angturbin, assignee: *See—*  
Lysholm, Alf.
- Aktiebolaget Srenska Textilverken, assignee: *See—*  
Peschel, Paul.
- Aktiebolaget Thulinverken, assignee: *See—*  
Von Sneidern, Arne A.
- Aktiengesellschaft Adolph Saurer, assignee: *See—*  
Wiget, Georg.
- Aktiengesellschaft Brown, Boveri & Cie, assignee: *See—*  
Bruhlmann, Gottfried.  
Dutoit, Andre.  
Gaudenzi, Arthur.  
Gaudenzi, Arthur, and Kern.  
Huber, Jakob.  
Keller, Robert, and Handschin.  
Thommen, Hans, and Halm.
- Aktiengesellschaft der Eisen- und Stahlwerke vormals Georg Fischer, assignee: *See—*  
Mynssen, Jacob W.  
Mynssen, Jacob W., Ehrsam, and Künzi.
- Aktiengesellschaft Fuer Technische Studien, assignee: *See—*  
Meier, Ernst.  
Ruegg, Rudolf.
- Aktiengesellschaft für Technische Studien, assignee: *See—*  
Oechslin, Konrad.  
Salzmann, Fritz.
- Albano, Edmond, New York, N. Y. Window sash. 2,419,524; Apr. 29.
- Albany Felt Company, assignee: *See—*  
Chagnon, Zephir J.
- Albaugh, Frederick W., Inglewood, assignor to Union Oil Company of California, Los Angeles, Calif. Chemical treatment of oil sands. 2,419,755; Apr. 29.
- Albaugh, Maurice, Quincy, Ohio. Chimney coping. 2,417,039; Mar. 11.
- Alben, Frank L., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Drive device. 2,424,543; July 29.
- Alben, Frank L., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Turbine locomotive. 2,424,676; July 29.
- Albersheim, Walter J., Interlaken, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave transmission system. 2,418,809; Apr. 15.
- Albert, A. M., assignee: *See—*  
James, Robert H.
- Albert, Harry B., assignee: *See—*  
Chaplin, Edwin D.
- Albert, Harry E., Akron, Ohio, and R. J. Reid, Fair Lawn, N. J., assignors to The Firestone and Rubber Company, Akron, Ohio. Beneficiation of chlorine-containing rubber derivatives. 2,424,920; July 29.
- Albert, Orrin W., and D. A. Webster, assignors to Lockheed Aircraft Company, Burbank, Calif. Tool for dimpling. 2,421,732; June 3.
- Albert, Walter L., Jr., Seminole, Okla., assignor to Phillips Petroleum Company. Heating system for pressure fluid of fluid pressure operated pumps. 2,432,079; Dec. 9.
- Albert, Walter P., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic dead-reckoning device. 2,428,770; Oct. 14.
- Albert, Walter P., Madison, N. J., and R. C. Davis, Great Neck, R. H. Gumley, Whitestone, and W. H. T. Holden, Woodside, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric motor control circuits. 2,428,767; Oct. 14.
- Albertoli, John, San Francisco, Calif. Can filling apparatus. 2,416,039; Feb. 18.
- Albertoli, John, San Francisco, Calif. Can unloading apparatus. 2,420,343; May 13.
- Albertson, Jonathan Y.: *See—*  
Bleam, Edgar W., and Albertson.
- Albertson, Noel F., East Greenbush, and S. Archer, Albany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Preparing di-histidine, and intermediates therefor. 2,420,641; May 20.
- Albertson, Victor N.: *See—*  
Swenson, William E., and Albertson.
- Albertson, Victor N., assignor to Minneapolis-Moline Power Implement Company, Minneapolis, Minn. Counterbalance mechanism. 2,428,924; Oct. 14.
- Albin, Frederick G., Los Angeles, Calif., assignor to Radio Corporation of America. Combination electrical and fluid conducting cable. 2,416,561; Feb. 25.
- Albin, Frederick G., Los Angeles, Calif., assignor to Radio Corporation of America. Condenser structure. 2,429,085; Oct. 14.
- Albin, Frederick G., Los Angeles, Calif., assignor to Radio Corporation of America. Self-regulating high-frequency generator. 2,431,902; Dec. 2.
- Albrecht, Gilmon F., Madison, Wis. Beverage vending machine. 2,416,728; Mar. 4.
- Albrecht, Max W., Chicago, Ill. Venetian blind attachment. 2,429,446; Oct. 21.
- Albrecht, Otto: *See—*  
Graenacher, Charles, Sallmann, and Albrecht.
- Albrecht, Otto, Neue Welt, near Basel, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Water-soluble condensation products and making same. 2,432,850; Dec. 16.
- Albrecht, Walter A., Grosse Pointe, Mich. Casement window structure. 2,430,970; Nov. 18.
- Albrecht, Walter M., assignor to Chain Belt Company, Milwaukee, Wis. Chain joint. 2,428,060; Sept. 30.
- Albrecht, William T., Detroit, Mich. Garment hanger. 2,421,307; May 27.



- Albright, E. J., & Co., assignee: *See*—  
Albright, Edward J.
- Albright, Edward J., assignor to E. J. Albright & Co., Chicago, Ill. Apparatus for plucking feathers. 2,422,608; June 17.
- Albright, Franklin C., San Marino, Calif., assignor to United Aircraft Corporation, East Hartford, Conn. Aircraft tail support and arresting member. 2,421,739; June 10.
- Alco Valve Company, assignee: *See*—  
Dube, John E.  
Rose, Howard E.
- Aldeen, Gedor W., assignor to American Cabinet Hardware Corporation, Rockford, Ill. Making cable terminals. 2,427,176; Sept. 9.
- Alderfer, Sterling W., Akron, Ohio. Making elastic thread or fabric. 2,427,334; Sept. 16.
- Alderfer, Sterling W., Akron, Ohio. Salvage loop forming means for looms. 2,431,978; Dec. 2.
- Alderfer, Sterling W., assignor of one-half to E. D. Andrews, Akron, Ohio. Fabric. Re. 22,831; Jan. 21.
- Alderfer, Sterling W., assignor to Andrews-Alderfer Processing Company, Incorporated, Akron, Ohio. Apparatus for spreading viscous or plastic materials. 2,246,572; Aug. 26.
- Alderfer, Sterling W., assignor to Tel-O-Post Company, Akron, Ohio. Collapsible bench. 2,426,573; Aug. 26.
- Alderfer, Sterling W., assignor of one-half to E. D. Andrews, Akron, Ohio. Fabric and manufacturing articles therefrom. 2,431,977; Dec. 2.
- Alderman, Harold B., assignor to R. & W. Wiley, Inc., Buffalo, N. Y. Lighting fixture. 2,427,084; Sept. 9.
- Aldis, William J.: *See*—  
Whyte, Alexander K., and Aldis.
- Aldon Products Company, assignee: *See*—  
Vars, Ethan W.
- Aldred, John L., Jr., Fort Worth, Tex., assignor, by mesne assignments, to Consolidated Vultee Aircraft Corporation. Automatically compensating cable connection. 2,417,581; Mar. 18.
- Aldrich, John A., Hampton, N. H. Oarlock. 2,420,161; May 6.
- Alexander, Arthur F., Cleveland, Ohio. Variable speed belt drive. 2,417,047; Mar. 11.
- Alexander, Arthur F., Cleveland, Ohio. Motor transmission. 2,430,798; Nov. 11.
- Alexander, Charles F., Chicago, Ill. Stamp pad. 2,422,814; June 24.
- Alexander, Don F., Dayton, Ohio, assignor to The Sterling Varnish Company, Haysville, Pa. Varnishing armatures and the like. 2,417,538; Mar. 18.
- Alexander, Donald F., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Peak transient meter. 2,422,766; June 24.
- Alexander, Felix J., Scarsdale, N. Y. Cup and saucer and the like. 2,427,487; Sept. 16.
- Alexander, Ford I., Whittier, Calif. Washing and cleaning well casing perforations and well holes by explosives. 2,414,349; Jan. 14.
- Alexander, Harry S., assignor to Keystone View Company, Meadville, Pa. Stereoscopic instrument. 2,422,384; June 17.
- Alexander, Harry S., assignor to Keystone View Company, Meadville, Pa. Optical instrument. 2,433,186; Dec. 23.
- Alexander, Harvey A., Lansing, Mich. Combination tendon extractor and foot and head severing device. 2,425,077; Aug. 5.
- Alexander, Harvey B., Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Propellant powder. 2,425,854; Aug. 19.
- Alexander, Horace W., and A. Comper, assignors to American Sterilizer Company, Erie, Pa. Reflectors. 2,424,531; July 22.
- Alexander, Peter P., Marblehead, assignor to Metal Hydrides Incorporated, Beverly, Mass. Production of metal hydrides. 2,425,711; Aug. 19.
- Alexander, Peter P., Marblehead, assignor to Metal Hydrides Incorporated, Beverly, Mass. Production of alkaline earth hydrides. 2,425,712; Aug. 19.
- Alexander, Peter P., assignor to Metal Hydrides Incorporated, Beverly, Mass. Production of titanium hydride. 2,427,338; Sept. 16.
- Alexander, Peter P., assignor to Metal Hydrides Incorporated, Beverly, Mass. Production of zirconium hydride. 2,427,339; Sept. 16.
- Alexander, Samuel A., Washington, D. C., assignor of one-half to H. L. MacDonald, Miami, Fla. Life preserver with chemical heater. 2,429,973; Nov. 4.
- Alexander, Verna C., Spartanburg, S. C. Beach towel and garment. 2,420,344; May 13.
- Alexander, William, Glasgow, Scotland. Vortex dust separator. 2,425,588; Aug. 12.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Follow-up control system. 2,414,919; Jan. 28.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Follow-up system. 2,416,562; Feb. 25.
- Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Electric computer. 2,417,229; Mar. 11.
- Alexanderson, Ernst F. W., and M. A. Edwards, Schenectady, and K. K. Bowman, Scotia, N. Y., assignors to General Electric Company. Follow-up control system. 2,414,685; Jan. 21.
- Alexanderson, Ernst F. W., and A. H. Mittag, Schenectady, N. Y., assignors to General Electric Company. Electric control circuits. 2,431,903; Dec. 2.
- Alexanderson, Howard A., Woodridge, and H. J. Wolf, Red Bank, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Sealing unit. 2,414,219; Jan. 14.
- Alexandersson, Harald V., Lidings, assignor to Aga-Baltic Aktiebolag, Stockholm, Sweden. Automatic phonograph record changer. 2,424,132; July 15.
- Alexandersson, Harald V., Lidings, assignor to Aga-Baltic Aktiebolag, Stockholm, Sweden. Record changer for phonographs. 2,426,978; Sept. 9.
- Alexandersson, Harald V., and N. U. Hagren, assignors to Svenska Aktiebolaget Gasaccumulator, Lidings, Sweden. Automatic phonograph record-changer. 2,428,258; Sept. 30.
- Alexandersson, Harald V., and A. S. Dahlstedt, Lidings, assignors to Aga-Baltic Aktiebolag, Stockholm, Sweden. Earth inductor generator. 2,432,500; Dec. 16.
- Alfano, Louis, Los Angeles, Calif. Safety means for cranes. 2,422,329; June 17.
- Alfery, Henry F., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Temperature control and safety shutoff. 2,414,220; Jan. 14.
- Alford, Andrew, New York, N. Y., assignor to Federal Telephone and Radio Corporation. Radio beacon. 2,419,525; Apr. 29.
- Alford, Andrew, New York, N. Y., assignor to Federal Telephone and Radio Corporation. Tube arrangement for frequency doubling. 2,424,959; Aug. 5.
- Alford, Andrew, and N. Marchand, New York, N. Y. assignors to Federal Telephone and Radio Corporation. Radio beacon. 2,414,431; Jan. 21.
- Alfthan, Johannes, New York, N. Y., and R. T. Fields, Arlington, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of tapered filaments. 2,418,492; Apr. 8.
- Alger, Philip L., Schenectady, N. Y., assignor to General Electric Company. Contact element. 2,418,810; Apr. 15.
- Algin Corporation of America, assignee: *See*—  
Le Gloahec, Victor C. E.
- Allen Property Custodian: *See*—  
Becker, Gottfried, Daevs, and Steinberg.  
Bergier, Jacques, Eskenazi, and Helbronner.  
Bresson, Charles.  
Coulle, Jacques.  
de France, Henri.  
Dierichs, Alfred.  
Duesberg, Hubert.  
Faure, André and A.  
Folco, Angelo V.  
Frei, Karl.  
Hasimoto, Masayosi.  
Kattwinkel, Hans.  
Landgraf, Alfred, and Roelen.  
Long, Bernard.  
Marchand, Jean J. M. L.  
Modugno, Francesco.  
Wellenstein, Robert.
- Alg, Leo J., Dayton, Ohio. Hanger for an eaves trough. 2,431,012; Nov. 18.
- Alkonis, Justin J., assignor to Paul F. Beich Company, Bloomington, Ill. Apparatus for making confectionery. 2,424,950; July 29.
- All American Aviation, Inc., assignee: *See*—  
Cotton, Robert B.  
Du Pont, Richard C.  
Gottschall, Clarence R.  
Mancini, Michael W.  
Mitchell, William J.  
Schultz, Arthur B.  
Setz, Walter H.  
Stanley, Amos L.
- Allan, Frank A., assignee: *See*—  
Allan, James E.
- Allan, James E., assignor to F. A. Allan, Detroit, Mich. Antiskid device. 2,419,105; Apr. 15.
- Allan, John, Gualala, Calif. Valve for spray guns. 2,430,697; Nov. 11.
- Allard, Pierre J.-M. T., Chantilly, assignor to Societe Francaise De Construction de Bennes Automatiques, Persan, Seine-et-Oise, France. Electric control means for self-acting buckets. 2,429,908; Oct. 28.
- Allardice, Thomas B., Mountain Lakes, N. J. Cross chain for automobile tire chains. 2,415,270; Feb. 4.
- All-Best Specialties Corp., assignee: *See*—  
Siegel, Harry.
- Alcock, William, Jr., Kingsbury, London, assignor to Fescol Limited, London, England. Liquid level and temperature controller. 2,424,133; July 15.
- Allen, Archie A., assignor to Kirsch Company, Sturgis, Mich. Curtain rod or drapery fixture. 2,429,252; Oct. 21.
- Allen, Arthur C.: *See*—  
Mather, Irwin, Allen, and Budlane.
- Allen-Bradley Company, assignee: *See*—  
Clogau, Manfred L.



- Allen, Charles F. H., and J. E. Jones, assignors to Eastman Kodak Company, Rochester, N. Y. Fog inhibitors for photographic emulsions. 2,418,613; Apr. 8.
- Allen, Charles F. H., and J. A. Van Allan, assignors to Eastman Kodak Company, Rochester, N. Y. Aliphatic bis-dioxydiacetonitriles. 2,425,360; Aug. 12.
- Allen, David W., Rosemont, Pa., assignor, by mesne assignments, to J. W. Van Karner, New York, N. Y. Signal device. 2,430,693; Nov. 11.
- Allen, Dorothy M., assignee: *See*—Allen, Gordon C.
- Allen, Earle F., Wellesley Hills, and L. M. Burrows, North Quincy, Mass., assignors to Manning, Maxwell & Moore, Incorporated, New York, N. Y. Making valves. 2,419,243; Apr. 22.
- Allen, Edward A.: *See*—Healy, Francis P., and Allen.
- Allen, Edwin L., Iowa City, Iowa. Device for examining the anterior chamber of the eye. 2,430,851; Nov. 18.
- Allen, Frank B., Lower Merion Township, Montgomery County, assignor to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Automatic dust removing system. 2,420,217; May 6.
- Allen, Frank B., Lower Merion Township, Montgomery County, assignor to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Apparatus for handling dust. 2,421,977; June 10.
- Allen, Frank B., Lower Merion Township, Montgomery County, assignor to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Centrifugal pump. 2,431,221; Nov. 18.
- Allen, Frank B., Verona, assignor to C-O-Two Fire Equipment Company, Newark, N. J. Fire extinguishing system. 2,425,778; Aug. 19.
- Allen, Frank B., Verona, assignor to C-O-Two Fire Equipment Company, Newark, N. J. Discharge head. 2,425,779; Aug. 19.
- Allen, Gordon C., assignor of fifty per cent to D. M. Allen, Detroit, Mich. Receptacle for fluids. 2,432,132; Dec. 9.
- Allen, Harold G., Denver, Colo. Fish lure. 2,423,431; July 5.
- Allen, Herbert, assignor to Cameron Iron Works, Houston, Tex. Circulating type packer and valve therefor. 2,418,493; Apr. 8.
- Allen, Holly H., and A. Taylor, Charleston, W. Va. Egg separator. 2,424,134; July 15.
- Allen, Howard D., Los Angeles, Calif. Toy pistol. 2,421,403; June 3.
- Allen Industries, Inc., assignee: *See*—Warring, Alfred.
- Allen, John G., Bartlesville, Okla., assignor to Phillips Petroleum Company. Desulfurization in hydrocarbon conversions. 2,414,626; Jan. 21.
- Allen, John L., New Bedford, Mass. Apparatus for cleaning knitting machines. 2,422,514; June 17.
- Allen, Joseph W., Washington, D. C. Voltage regulator for generators. 2,425,296; Aug. 12.
- Allen, Kent, assignee: *See*—Del Riccio, Lorenzo.
- Allen, Mannie Brooklyn, N. Y. Waterproof detachable cover for hand carried cases. 2,432,365; Dec. 9.
- Allen, Otis, El Paso, Tex. Gasoline vaporizer. 2,430,852; Nov. 18.
- Allen, Raymond W., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Gun carriage. 2,415,024; Jan. 28.
- Allen, Rex W., Palisades, assignor to Camloc Fastener Corporation, New York, N. Y. Retainer for stud assembly. 2,424,265; July 22.
- Allen, Robert C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Welded blade structure. 2,423,165; July 1.
- Allen, Russell G., Alton, Ill., assignor to Owens-Illinois Glass Company. Cam adjusting and indicating mechanism. 2,413,902; Jan. 7.
- Allen-Sherman-Hoff Company, The, assignee: *See*—Allen, Frank B.
- Allen Wales Adding Machine Corporation, assignee: *See*—Lambert, Harry L.
- Allen, Walter F., Los Angeles, Calif. Chipping apparatus. 2,421,231; May 27.
- Allen, Walter S.: *See*—Bell, Harry A., and Allen.
- Allen, Walter S., Flushing, assignor to General Chemical Company, New York, N. Y. Purification of hydrochloric acid. 2,426,914; Sept. 2.
- Allen, William R., Shaker Heights, and C. H. Sand, Willoughby, Ohio, assignors to Addressograph-Multigraph Corporation, Wilmington, Del. Drum stop means for printing machines. 2,421,823; June 10.
- Allen, William R., Shaker Heights, and C. H. Sand, Willoughby, Ohio, assignors to Addressograph-Multigraph Corporation, Wilmington, Del. Printing machine. 2,421,824; June 10.
- Allen, William H., Rutherford, assignor to Empire Box Corporation, Garfield, N. J. Bottle carrier carton. 2,425,140; Aug. 5.
- Allen, William W., Ambler, assignor to West Bank Oil Terminal, Inc., Philadelphia, Pa. Road paving composition. 2,416,134; Feb. 18.
- Aller, Willis F., assignor to The Sheffield Corporation, Dayton, Ohio. Comparator gauge. 2,419,433; Apr. 22.
- Aller, Willis F., assignor to The Sheffield Corporation, Dayton, Ohio. Gauging device. 2,431,014; Nov. 18.
- Aller, Willis F., assignor to The Sheffield Corporation, Dayton, Ohio. Threaded workpiece gauging device. 2,431,013; Nov. 18.
- Allerdice, Joseph M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dust preventing device for packaging subdivided materials. 2,422,330; June 17.
- Alleva, William, Jenkintown, and H. Blackburn, Yeadon, assignors to I-T-E Circuit Breaker Company, Philadelphia, Pa. Resistance conductor. 2,432,268; Dec. 9.
- Alliance Ware, Incorporated, assignee: *See*—Brett, William H.
- Allied Appliance Co., assignee: *See*—Lovick, John B.
- Allied Chemical & Dye Corporation, assignee: *See*—Baney, Leo J.
- Bulifant, Theodore A.
- Cashion, Francis W.
- Curtis, Gerard W.
- Eitelman, Michael A.
- Engel, Karl H.
- Kern, Jean G.
- Ogilvie, James, and Sweet, Sievenpiper, Frederic, and Flett.
- Waldron, John W.
- Weber, Edward.
- Allied Control Company, Inc., assignee: *See*—Curry, Robert S., Jr., Horman, Kircher, and Winsker.
- Horman, John H.
- Miller, Edward G., and Engberg.
- Tyne, Gertrude H.
- Allied Control Valve Company, Inc., The, assignee: *See*—Goepfrich, George A.
- Allied Electric Products, Inc., assignee: *See*—Weisberg, Sidney M.
- Allied Industries, assignee: *See*—Weiner, Harry.
- Allied Manufacturing and Trading Company, assignee: *See*—Goldstein, David D.
- Allied Plastics Company, assignee: *See*—Crane, Walton B.
- Allied Railway Equipment Company, assignee: *See*—Moline, Carl R.
- Allied Shoe Machinery Corp., assignee: *See*—Perril, Angelo.
- Alling, E. Roy, Kenmore, N. Y., and H. A. Trebler, Baltimore, Md., assignors to Rice & Adams Corporation, Buffalo, N. Y. Removing and concentrating residue from containers. 2,418,063; Mar. 25.
- Allington, George H., Rockford, Ill., assignor, by mesne assignments, to United Aircraft Corporation, East Hartford, Conn. Engine shipping case. 2,418,861; Apr. 15.
- Allinson, John J., El Dorado, Ark., assignor to Lion Oil Company. Conducting chemical reactions. 2,429,980; Nov. 4.
- Allis-Chalmers Manufacturing Company, assignee: *See*—Allen, Robert C.
- Altorfer, Hans A., and Johnson.
- Armor, James C.
- Bimpson, Henry S.
- Bimpson, Henry S., and Palmer.
- Bloodworth, Thomas H.
- Bloom, Merle W.
- Brundage, John F.
- Durand, Samuel R.
- Etherington, Harold.
- Gross, Emil.
- Hagemann, John R., and Johnson.
- Harrer, Paul H.
- Johnson, John A.
- Johnson, Lauren L.
- Kenney, Clarence E., and Hagemann.
- Lerstrup, Karl.
- Montgomery, Terry L.
- Nagler, Forrest.
- Pankey, Thomas L., and Imhoff.
- Paterson, Ira W.
- Scranton, Charles J.
- Scranton, Charles J., and Worrell.
- Seitz, Friedrich W.
- Sikorra, Daniel J.
- Steinberg, Ervin B.
- Strehlow, Walter F.
- Taylor, Philip L.
- Vogel, Paul C.
- Wilson, William F.
- Winograd, Harold.
- Allis, Louis, Company, The, assignee: *See*—Goran, Steven J.
- Allison, Donald K., Beverly Hills, Calif. Ozonizer construction. 2,429,152; Oct. 14.
- Allison, Hugh V., Fairfield, Conn. Chuck and abrasive drill. 2,427,085; Sept. 9.
- Allison, Philip W., Galveston, Tex. Fuse for anti-aircraft shells. 2,415,804; Feb. 18.
- Allison, Vernon C.: *See*—Rinkenbach, William H., and Allison.
- Allison, William D., Detroit, Mich. Steering mechanism. 2,427,340; Sept. 16.



- Allman, George D., Chicago, Ill., assignor to United States Cold Storage Corporation, Wilmington, Del. Defrosting method. 2,429,909; Oct. 28.
- Allmanna Svenska Elektriska Aktiebolaget, assignee: *See—*  
 Hansson, Bror, and Ljungberg.  
 Krabbe, Ulrik Hindenburg.  
 Lamm, Uno.  
 Widen, Erik, and Lindahl.
- Almond, Thomas W., Atlantic City, N. J. Highway light. 2,432,977; Dec. 23.
- Allport, Harry B.: *See—*  
 Waite, Virgil H., and Allport.
- Allred, George W., Mayodan, N. C. Laminated abrasive tool. 2,422,876; June 24.
- Allred, Samuel M., Dayton, Ohio. Roller skate. 2,424,072; July 15.
- All-Steel-Equip Company, assignee: *See—*  
 Keiserleber, Arthur P.
- Allyn, William N., assignee: *See—*  
 Palmeter, Harry E.
- Alm, Einar E., Stockholm, Sweden. Assembler for line casting machines. 2,419,700; Apr. 29.
- Alm, J. T., assignee: *See—*  
 Sauer, Christian H.
- Alma, Gerrit H. P.: *See—*  
 Strutt, Maximilian J. O., van der Ziel, and Alma.
- Alma, Gerrit H. P., and B. G. Dammers, Elndhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electron discharge device. 2,420,345; May 13.
- Almberg, Carl A.: *See—*  
 Almberg, Gustave and C. A.
- Almberg, Gustave and C. A., Joliet, Ill. Plural discharge assistant dispensing machine. 2,417,284; Mar. 11.
- Almgren, August E., Hillside, N. J., assignor to American Can Company, New York, N. Y. Treating machine for opening hinged closure members on containers. 2,420,642; May 20.
- Almy, Richard, Lancaster Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Making sheet gasket material. 2,428,771; Oct. 14.
- Almy, Richard, and G. E. Ehle, Lancaster Township, Lancaster County, assignors to Armstrong Cork Company, Lancaster, Pa. Device for treating shoe stiffener blanks. 2,416,671; Mar. 4.
- Alos Aktiengesellschaft, assignee, et al.: *See—*  
 Kalman, Ladislaus.
- Alox Corporation, assignee: *See—*  
 Shields, James E., and Reilly.
- Alperin, Louis I., Scranton, Pa. Safety reversible window. 2,423,675; July 8.
- Alpert, Daniel, Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Metal supported glass window. 2,419,049; Apr. 15.
- Alpha Cellulose Corporation, assignee: *See—*  
 Neumann, John.
- Alquist, Francis N., and C. H. Groom, Jr., Midland, Mich., and F. H. Haney, Brookfield, Ill., assignors to The Dow Chemical Company, Midland, Mich. Production of chloranil. 2,414,008; Jan. 7.
- Alsldorf, James W., Winnetka, Ill., assignor, by mesne assignments, to Cory Corporation. Grinding annular surfaces. 2,424,544; July 29.
- Alsing, Carl F., Wilbraham, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Controlled refrigerating apparatus with secondary refrigerating circuit. 2,433,187; Dec. 23.
- Alspach, James H.: *See—*  
 Ellis, Delbert, and Alspach.
- Alster, Joseph, assignee: *See—*  
 Rakowitzky, Gregor H.
- Altenburger, Clarence L.: *See—*  
 Selmi, Luciano G., and Altenburger.
- Alter, Harry, Company, The, assignee: *See—*  
 Schaefer, Harold W.
- Alter, Horace J., North Hollywood, Calif. Pneumatic nailing hammer. 2,421,474; June 3.
- Alterio, Eugene, New York, N. Y. Torpedo. 2,428,191; Sept. 30.
- Altgelt, Herman E., South Bend, Ind., assignor to The Oliver Corporation. Tractor hitch. 2,417,624; Mar. 18.
- Althaus, John, assignee, et al.: *See—*  
 Dowling, Clinton.
- Althaus, Robert K., assignee, et al.: *See—*  
 Dowling, Clinton.
- Alther, Joseph G., assignor to Universal Oil Products Company, Chicago, Ill. Catalytic conversion of hydrocarbons. 2,427,341; Sept. 16.
- Alther, Joseph G., assignor to Universal Oil Products Company, Chicago, Ill. Catalytic conversion of hydrocarbons. 2,432,644; Dec. 16.
- Althouse, Harlan E., Belleville, N. J., assignor to L. Sonneborn Sons, Inc. Paint. 2,419,048; Apr. 15.
- Altman, Fred E., assignor to Eastman Kodak Company, Rochester, N. Y. Eyepiece. 2,423,676; July 8.
- Altman, Fred E., assignor to Eastman Kodak Company, Rochester, N. Y. Optical sighting lens system. 2,430,549; Nov. 11.
- Altman, Fred E., and R. Wyland, assignors to Eastman Kodak Company, Rochester, N. Y. Plastic objective. 2,430,550; Nov. 11.
- Alton, Alvin J.: *See—*  
 North, Gerald C., Alton, and Little.
- Altorfer Bros. Company, assignee: *See—*  
 Castrocone, John A.
- Altorfer, Hans A., and J. A. Johnson, Wauwatosa, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Turbine construction. 2,414,788; Jan. 28.
- Altschuler, Joe A.: *See—*  
 Stratford, Charles W., Altschuler, and Putney.
- Aluminum Company of America, assignee: *See—*  
 Andrews, Raynal W., and Delly.  
 Chew, Frank D.  
 Dean, Walter A.  
 Delly, Arthur T.  
 Derfler, Frank.  
 Dummett, George A. and Ralph.  
 Dunbar, Richard S.  
 Klock, Peter I.  
 Menking, Heinz.  
 Mosena, Roscoe L., Traylor, Halslip, and Hall.  
 Newsome, James W.  
 Nicholls, Edwin A.  
 Rawlinson, Ray M., and Philleo.  
 Shawcross, Roy.  
 Underwood, James E.  
 White, Wayne E.
- Aluminum Goods Manufacturing Company, assignee: *See—*  
 Hansen, Harold, and Seefeldt.
- Aluminum Laboratories Limited, assignee: *See—*  
 Palmer, Roy D.
- Aluminum Plant & Vessel Company, The, assignee: *See—*  
 Chandler, Edward M., Bossert, and Baker.
- Alvarez, Octavio J., assignor to Alvarez Patent Corporation, New York, N. Y. Landing gear. 2,417,340; Mar. 11.
- Alvarez Patent Corporation, assignee: *See—*  
 Alvarez, Octavio J.
- Alverson, Robert M., Arlington, Va. Protective device for rocket components. 2,426,171; Aug. 26.
- Alves, Alexander L., assignor to The Watertown Manufacturing Company, Watertown, Conn. Transfer molding press. 2,420,405; May 13.
- Alvira, Alfonso: *See—*  
 Hausz, Walter, and Alvira.
- Alvira, Alfonso, Schenectady, N. Y., assignor to General Electric Company. Frequency modulation system. Re. 22,834; Jan. 28.
- Alvord, Charles C.: *See—*  
 Flygare, Carl G., and Alvord.
- Alvord, Grove D., Indiana, assignor to Syntrol Company, Homer City, Pa. Dry feeding machine having means responsive to weight of material already discharged from automatically movable hoppers. 2,429,864; Oct. 28.
- Amac Refinements Limited, assignee: *See—*  
 MacKenzie, Albert K.
- Amalgamated Engineering & Research Corporation, assignee: *See—*  
 Jensen, Arthur H.
- Amalgamated Wireless (Australasia) Limited, assignee: *See—*  
 Flood, Reginald F. J., and Vine.  
 Irish, Alfred J., and Lindsay.
- Amato, Samuel S., Philadelphia, Pa. Marine float. 2,433,189; Dec. 23.
- Amato, Thomas, Brooklyn, N. Y. Steam emitting foldable ironing board. 2,427,829; Sept. 23.
- Amberg, Charles R., Alfred, N. Y., and H. C. Harrison, Portland, Oreg., assignors to The Exolon Company, Blasdel, N. Y. Method of vitreous coating refractory material. 2,422,215; June 17.
- Amberg, Walter E., Beverly Shores, Ind., assignor to Universal Paper Products Company. Dispenser for paper cups. 2,414,847; Jan. 28.
- Amberg, Walter E., Beverly Shores, Ind., assignor to Universal Paper Products Company. Paper dish holder. 2,414,920; Jan. 28.
- Ambler, Joseph A., and E. J. Roberts, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture. Elimination of magnesium from insoluble alkaline earth aconitates. 2,432,223; Dec. 9.
- Ambrose, Dermot M.: *See—*  
 Chatterjea, Prafulla K., and Ambrose.
- Ambrose, Henry A.: *See—*  
 Trautman, Charles E., and Ambrose.
- Amelunxen, Johan F.: *See—*  
 Stout, Frederick S., and Amelunxen.
- Amen, Elizabeth A., San Bruno, Calif. Hat rest. 2,416,464; Feb. 25.
- Amende, Joachim, and W. Ender, Ludwigshafen-on-the-Rhine, Germany; vested in the Attorney General of the United States. Manufacture of fibers and foils. 2,416,890; Mar. 4.
- Amer, Myrtle A., Los Angeles, Calif. Motor driven massaging instrument. 2,431,979; Dec. 2.
- American Aggregate Company, assignee: *See—*  
 Cleary, John B.
- American Aircraft Associates, assignee: *See—*  
 Burrus, Paul B.



- American Air Filter Company, Inc., assignee: *See*—  
Dahlman, Verner.
- American Anode Inc., assignee: *See*—  
Romick, Kenneth M.
- American Bed and Spring Company, assignee: *See*—  
Coopersmith, Rudolph.
- American Bemberg Corporation, assignee: *See*—  
Jones, Paul T.
- American Blower Corporation, assignee: *See*—  
Meyer, Harry A.
- American Bosch Corporation, assignee: *See*—  
Bachman, Oscar L.  
Henschke, William O.
- American Box Board Company, assignee: *See*—  
Anderson, Wilbur G., Jr.
- American Braces, assignee: *See*—  
Markula, Raymond F.
- American Brake Company, The, assignee: *See*—  
Gantner, William A.  
Mueller, Emil G.
- American Brake Shoe Company, assignee: *See*—  
Browne, Lindsay H.  
Mantle, Burr W.  
Spokes, Ray E., and Keller.
- American Brass Company, The, assignee: *See*—  
Falk, Ernest C., and Storrs.  
Smith, Cyril S.
- American Cabinet Hardware Corporation, assignee: *See*—  
Aldeen, Gedor W.
- American Can Company, assignee: *See*—  
Almgren, August E.  
Begg, Thomas.  
Berglund, Ralph M.  
Birkland, Stellan.  
Blom, Otto F.  
Eckman, George E.  
Geertsen, Nelson.  
Hayes, John G.  
Jacobs, Samuel S., and Birkland.  
Jakob, John P.  
Jeneson, George R.  
Kampf, Christian.  
Kinberg, Hjalmar.  
Kruse, Orlin O.  
Millelot, Paul W., Jr.  
Nordquist, Ronald E. J.  
Patterson, Henry B., and Thomas.  
Peters, John F.  
Socke, John E.  
Thornburgh, Ivan D.  
Thornburgh, Ivan D., and Goodrich.  
White, Richard J.
- American Car and Foundry Company, assignee: *See*—  
Kump, Henry.  
Morey, William E., and Nichols.  
Pancake, Herman H.  
Pancake, Herman H., and Smith.  
Wasco, John F.
- American Chain & Cable Company, Inc., assignee: *See*—  
Berchtold, Wallace W.  
Bratz, Otto J.  
Delano, Howard A.  
Peterson, Vincent C. J.  
Peterson, Vincent C. J., and Loewen.
- American Chemical Paint Company, assignee: *See*—  
Snyder, Eugene.
- American Coach & Body Company, The, assignee: *See*—  
Holan, James H., Jr., and Troche.  
Troche, Herman J., and Farrar.
- American Coating Mills, Inc., assignee: *See*—  
Moore, Lawrence A.
- American Colloid Company, assignee: *See*—  
Bechtner, Paul.
- American Cyanamid Company, assignee: *See*—  
Bacon, Jack C.  
Baker, Bernard R.  
Baker, Bernard R., Safr and Bernstein.  
Barnes, Robert B.  
Barnes, Robert B., and Ham.  
Bean, James J.  
Bender, Sydney E.  
Bernstein, Seymour, Baker, and Safr.  
Booth, Robert B., and Herkenhoff.  
Booth, Robert B., and Pickens.  
Brookes, Alfred.  
Carlson, Gustaf H., and Pilgrim.  
Carnes, Joseph J.  
Cauwenberg, Winfred J., and Agaard.  
Clapp, Richard C., and Roblin.  
Cook, Elmer W., and Hook.  
Cook, Elmer W., and Moss.  
Collyer, Robert, and Clow.  
Conn, Robert C., Adams, and Goulding.  
Crawford, Bruce D., and Jayne.  
Davis, Arnold R.  
Davis, Harold S.  
Davis, Harold S., and Wiedeman.  
Davis, Harold S., Lichtenwalter, and Erickson.  
Davis, Harold S., Lichtenwalter, and Zeischke.  
Dixon, James K., and Morgan.  
Dudley, James R.  
Elkin, Milton, and Meadows.
- American Cyanamid Company, assignee: *See*—Continued  
English, Jackson P., and Clapp.  
Ericks, Walter P.  
Frank, Albert R., and Booth.  
Gilbert, Richard L., Jr.  
Goehler, Michael, Reimer, and Davis.  
Goulding, John P., Parker, and Denton.  
Gravell, Rogers.  
Grim, John M.  
Ham, Garnet P., and Barnes.  
Herkenhoff, Earl C.  
Holmes, Roger B., and Hill.  
Hood, Robert L.  
Hultquist, Martin E., and Northey.  
Kaiser, Donald W.  
Kaiser, Donald W., and Thurston.  
Kienle, Roy H., and Adams.  
Kienle, Roy H., and Amick.  
Kirk, Philip M.  
Kropa, Edward L.  
Kuh, Erwin, and Clapper.  
Kuh, Erwin, Dhein and Ebel.  
Kushner, Samuel, and Brancone.  
Lacey, Harold T., and Brouillard.  
Lacey, Harold T., Millson, and Heiss.  
Lahey, Richard W.  
Laury, Napoleon A.  
Lecher, H. Z., Scalera, and Forster.  
Lecher, Hans Z., and Kesler.  
Lichtenwalter, Myrl, and Wiedeman.  
Light, Donald W.  
Long, Robert S., and Hofmann.  
Lurie, David.  
Lynch, Kathryn L.  
May, Donald R., and Dixon.  
McLachlan, Dan, Jr.  
Merz, August.  
Moyer, Samuel P.  
Nagy, Daniel E., and Redmon.  
Nies, Abby W.  
Nolan, Kenneth G., and Hechenbleikner.  
Northey, Elmore H.  
Northey, Elmore H., and Hultquist.  
Oldham, Wilbur N.  
Osborne, John L.  
Paden, Joseph H.  
Paden, Joseph H., and Lane.  
Paden, Joseph H., and MacLean.  
Pall, David B.  
Park, Robert H., and Dixon.  
Parker, Robert P., and Hill.  
Parker, Robert P., and Hofmann.  
Pfann, Harry F.  
Pfann, Harry F., and Dixon.  
Pickens, Roy A.  
Pollard, John D.  
Rogers, Dilworth T.  
Royer, George L., and Amick.  
Safr, Sidney R., Bernstein, and Baker.  
Saunders, Kenneth W.  
Scalera, Mario.  
Scalera, Mario, and Joyce.  
Scalera, Mario, and Stewart.  
Seaman, William.  
Simpson, James F.  
Smith, James A., Jr.  
Stearns, Edwin I., Jr., and Buc.  
Stock, Charles R., and Taxwood.  
Thurston, Jack T.  
Thurston, Jack T., and Kaiser.  
Thurston, Jack T., and Nagy.  
Vitalis, Emil A.  
Vitalis, Emil A., and Lynn.  
Walker, Godfrey B.  
Weiss, Robert H., and Wintringham.  
West, Byron L., and Lewis.  
West, Herbert J.  
Winnek, Philip S., and Roblin.  
Winterbottom, Robert.
- American Cystoscope Makers, Inc., assignee: *See*—  
Wappler, Frederick C.
- American Dairies Incorporated, assignee, et al.: *See*—  
Turner, Charles W., and Reineke.
- American Display Company, The, assignee: *See*—  
Dunkelberger, Milton S.
- American District Telegraph Company, assignee: *See*—  
Evans, Francis C.
- American Dyewood Company, assignee: *See*—  
Steuber, Henry N.
- American Electro Metal Corporation, assignee: *See*—  
Schwarzkopf, Paul.
- American Enka Corporation, assignee: *See*—  
Henry, William V.  
Markwood, Paul W.  
Moritz, Adrian J. L.  
Schilthuis, Jan J., and Jackson.  
Van Scherpenzeel, Pieter H.
- American Foundry Equipment Company, The, assignee: *See*—  
Hirsch, Charles.



- American Gas Association, Inc., assignee: *See—*  
Weber, Earl J.
- American Hard Rubber Company, assignee: *See—*  
Weida, Harry.
- American Hardware Corporation, The, assignee: *See—*  
Morgen, Sigurd P.
- American Hatters and Furriers Company, Incorporated,  
assignee: *See—*  
Malgis, James T.
- American Hoist & Derrick Co., assignee: *See—*  
Hite, Joseph J.  
Stoddard, Robert J.
- American Instrument Company, assignee: *See—*  
Morris, Nathan.
- American-La France-Foamite Corporation, assignee:  
*See—*  
Lindsay, Charles H.
- American Laundry Machinery Company, The, assignee:  
*See—*  
Bicknell, George R., and Heidenfelder.  
Johnson, George W.  
Otis, Charles M.
- American Lava Corporation, assignee: *See—*  
Thurnauer, Hans, and Deaderick.
- American Lecithin Company, assignee: *See—*  
Scharf, Albert.  
Trueger, Edward.  
Trueger, Edward, and Sprague.
- American Locomotive Company, assignee: *See—*  
Bruce, Alfred W., and Partington.  
Chapman, Everett.  
Gunter, Addison Y.  
Gunter, Addison Y., and Farkas.
- American Machine & Foundry Company, assignee: *See—*  
Hooper, John W.  
Pedersen, Mathias.  
Sowa, Frank J.  
Wells, James D.
- American Machine and Metals, Inc., assignee: *See—*  
Bassett, Rex E., Jr.  
Chamberlin, John W.  
Davis, Archibald H., Jr.  
Grieveson, John N.  
Hebard, George P., and Sheets.  
Lee, Kenneth M., and Lindsey.  
Miller, Edward L.
- American Machinery Corporation, assignee: *See—*  
Smith, George M.
- American Maize-Products Company, assignee: *See—*  
Morgan, Willard L.  
Schopmeyer, Herman H.  
Schopmeyer, Herman H., and Felton.  
Schopmeyer, Herman H., Hammerstein, and Lar-  
mouth.
- American Manganese Corporation, assignee: *See—*  
Mitchell, Thomas A. and D. C.
- American-Marsh Pumps, Inc., assignee: *See—*  
Barton, Benjamin D.
- American MonoRail Company, The, assignee: *See—*  
Harris, Frank C.
- American National Bank and Trust Company of Chicago,  
trustee: *See—*  
Poole, Frederick A.
- American Optical Company, assignee: *See—*  
Bernheim, Daniel P., and Splaine.  
Dodkin, Donald.  
Ellis, Charles A.  
Ellis, Charles A., and Severy.  
Gradisar, Albin A., and Guellich.  
Gradisar, Albin A., and Schenk.  
Harper, Kennard W.  
Joyce, William J.  
Lehmberg, William H.  
Moulton, Harold R.  
Osterberg, Harold, and Heijn.  
Osterberg, Harold, and Schrader.  
Peck, William F.  
Peck, William F., and Gradisar.  
Peck, William F., and Harper.  
Peck, William F., Schenk, and Maier.  
Richards, Oscar W.  
Rooney, John T.  
Sevln, Douglas B.  
Splaine, Edward M.  
Tillyer, Edgar D.  
Urquhart, Henry.  
Ziegler, Byron J.
- American Ore Reduction Corporation, assignee: *See—*  
Brown, Charles O.
- American Paper Bottle Company, The, assignee: *See—*  
Cope, George.  
Earp, James F.
- American Pattern and Manufacturing Co., assignee: *See—*  
Miller, Raymond J.
- American Pipe and Construction Co., assignee: *See—*  
Munger, Charles G.
- American Rock Wool Corp., assignee: *See—*  
Smith, Herbert C.
- American Rolling Mill Company, assignee: *See—*  
Clingan, Irvine C.  
Shafer, George E.
- American Rolling Mill Company, The, assignee: *See—*  
Feild, Alexander L.  
Hudson, Edwin B.  
Loveless, Donald L.  
Marshall, William E.  
Stevens, George.  
White, Harold I.
- American Seal-Kap Corporation of Delaware, assignee:  
*See—*  
Dorsch, William C.  
Goodwin, Carl W.
- American Smelting and Refining Company, assignee: *See—*  
Fleming, Edward P., and Flitt.  
Forbes, Gordon B.  
Lebedeff, Yuri I. E.  
Lindner, Karl A., Morrison, and Busche.  
Olsen, Thue C.  
Shepard, Hugh M., and Byran.  
Wright, Erne A.
- American Steel Foundries, assignee: *See—*  
Bachman, Fred E.  
Bachman, Fred E., and Gothberg.  
Baselt, Walter H.  
Clasen, Claus J. W.  
Cottrell, Robert B.  
Flesch, Norman.  
Heater, Charles L., and Clasen.  
Kinne, Edmund P.  
Klee, Lester A.  
Lehrman, Leo A.  
Lehrman, Leo A., and Bachman.  
Light, David M.  
Milleville, Bertram J.  
Sedgwick, Robert K.  
Simanek, Edward J.  
Tack, Carl E.  
Tack, Carl E., and Helsten.
- American Steel and Wire Company of New Jersey, The,  
assignee: *See—*  
Boak, Willis E.  
Dahlstrom, Walter G.  
Duna, Alfred L.  
Harter, Noah S.  
Morrison, James J.  
Peirce, Walter T.  
Snow, Richard R.  
Vane, Otto J.  
Westhaver, Loren J., and Slenker.
- American Steel and Wire Company, The, assignee: *See—*  
Cress, Howard S.
- American Sterilizer Company, assignee: *See—*  
Alexander, Horace W., and Comper.
- American Stove Company, assignee: *See—*  
Morrill, Vaughan, Jr.
- American Telephone and Telegraph Company, assignee:  
*See—*  
Avery, Robert C.  
Bagnall, Vernon B.  
Carlson, Eric J.  
Foley, Daniel E., and Johnson.  
Hanley, Frank H.  
Hill, Edward W.  
Hoinakis, William, and Perry.  
Martin, Wade B.  
Neiswinter, James T.  
Plym, Lester M.  
Rheubottom, Willard C.  
Ross, Claude M.  
Smith, Temple C.  
Wilson, Austin F.
- American Textile Company, Inc., assignee: *See—*  
Straw, Samuel A.
- American Thermo Appliance Co., assignee: *See—*  
Busch, Fred, and Wild.
- American Tool Works Company, The, assignee: *See—*  
Hoelscher, William G.
- American Tractor Equipment Corporation, assignee: *See—*  
Woodridge, Mack.
- American Type Founders, Inc., assignee: *See—*  
Seybold, Frederick W.
- American Viscose Corporation, assignee: *See—*  
Bauer, Ernest K.  
Bradack, John H., and House.  
Brown, Kenneth R.  
Clark, Alvah D., and Reichert.  
Collins, Benjamin W., and Roetman.  
Conti, John D.  
Cozza, John.  
Curtis, Dale M.  
Delano, William R. P.  
Denyssen, Ivanhoe F., and Stanley.  
Detwiler, George T. Kulp, Moss, and Merion.  
Eshleman, Richard F.  
Francis, Carleton S., Jr.  
Furness, William H.  
Johnson, Thomas H.  
Koster, Frederick W., and Bruenner.  
Lodge, Alvin.  
McDermott, Henry J.  
Miles, John A., Long, and Giles.  
Nelson, Seddon C.  
Reichel, Frank H., and Cornwell.



- American Viscose Corporation, assignee: *See*—Continued  
 Roberts, Ingham S.  
 Spalding, John E., and Wicker.  
 Stanley, Richard W.  
 Thompson, Donald C., Dodge, and Nichols.  
 Truitt, Joseph A.  
 Wade, Worth.  
 Wallach, Roger.  
 Webb, Wesley L.  
 Wicker, Dan B.
- American Voith Contact Company, Inc., assignee: *See*—  
 Karl, Lorenz, and Kugel.
- American Waterproofing Corporation, assignee: *See*—  
 Gordon, Philip L.
- American Well Works, The, assignee: *See*—  
 Walker, James D.
- American Wheelabrator & Equipment Corporation, assignee: *See*—  
 Barnes, Kenneth H.
- American Zinc, Lead & Smelting Company, assignee: *See*—  
 Calbeck, John H.
- Amero, Robert C.: *See*—  
 Capell, Robert G., and Amero.
- Ames, Adelbert, Jr., Hanover, N. H. Binocular vision test. 2,419,939; May 6.
- Ames Baldwin Wyoming Co., assignee: *See*—  
 Wharton, George C.
- Ames, Frank C., Detroit, Mich. Preventing deterioration of electrodes in heat-treating. 2,419,383; Apr. 22.
- Ames, Robert G., assignor of one-half to G. W. Williams and one-fourth to S. Ames, Burlingame, Calif. Pressure plastic applicator. 2,413,684; Jan. 7.
- Ames, Robert G., assignor of one-half to G. Williams, and one-fourth to S. Ames, Burlingame, Calif. Corner finishing tool. 2,420,062; May 6.
- Ames, Robert S., assignor to Goodyear Aircraft Corporation, Akron, Ohio. Attaching thermoplastic sheets to other materials. 2,414,705; Jan. 21.
- Ames, Robert S., assignor to Goodyear Aircraft Corporation, Akron, Ohio. Centrifugally forming asymmetric plastic sheets. 2,431,102; Nov. 18.
- Ames, Stanley, assignee, et al.: *See*—  
 Ames, Robert G.
- Ames, William H., Jackson County, Mo. Line supporter and tightener. 2,429,590; Oct. 28.
- Amick, Chester A.: *See*—  
 Kienle, Roy H., and Amick.  
 Royer, George L., and Amick.
- Amidon, Roy C., assignor to Vanity Fair Mills, Inc., Reading, Pa. Thread guide rocking mechanism. 2,414,080; Jan. 14.
- Amidon, Roy C., assignor to Vanity Fair Mills, Inc., Reading, Pa. Thread guide for knitting machines. 2,418,445; Apr. 8.
- Amidon, Roy C., assignor to Vanity Fair Mills, Inc., Reading, Pa. Thread guide racking mechanism. 2,423,433; July 8.
- Amidon, Roy C., Reading, Pa., assignor to Vanity Fair Mills, Inc. Knitting machine needle. 2,429,210; Oct. 21.
- Amity Foundry and Machine Co., Inc., assignee: *See*—  
 De Mott, Armand.
- Amico Tools, Inc., assignee: *See*—  
 Mitchell, Wallace F.
- Ammon, Charles D., R. M. Snyder and G. Fitchie, Lincoln, Neb.; said Snyder and Fitchie assignors to said Ammon. Centrifugal clutch. 2,429,153; Oct. 14.
- Amos, James L., and K. E. Stober, assignors to The Dow Chemical Company, Midland, Mich. Decolorizing aromatic hydrocarbons. 2,431,655; Nov. 25.
- Ams, Max, Machine Company, The, assignee: *See*—  
 Diesel, Willy.
- Amsler-Morton Company, The, assignee: *See*—  
 Burton, Reed H., Herman, and De Otto.  
 Morton, William A.  
 Morton, William A., and Smith.
- Amsterdam, Lilly, Newark, N. J. Detachable coin dispenser for ladies' handbags. 2,429,661; Oct. 28.
- Amstutz, Albert, La Rue, Ohio. Self-feeder for hogs. 2,429,542; Oct. 21.
- Amtsberg, Lester A., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Rivet setting tool. 2,423,956; July 15.
- Amtsberg, Lester A., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Driver for clinch nuts and the like. 2,423,957; July 15.
- Amundson, Roald H.: *See*—  
 Earle, Ralph H., and Amundson.
- Amy, Aceves & King, Inc., assignee: *See*—  
 Amy, Ernest V., and Aceves.
- Amy, Ernest V., and J. G. Aceves, assignors to Amy, Aceves & King, Inc., New York, N. Y. Filter device for antenna systems. 2,422,458; June 17.
- Anaconda Wire & Cable Company, assignee: *See*—  
 Flynn, Edward S.
- Anaconda Wire and Cable Company, assignee: *See*—  
 Rosch, Samuel J.
- Anet, Victor M. J., assignor to Marius Fayolle alias Marcel Fayolle, Lyon, France. Warp supply for circular weaving machines. 2,433,190; Dec. 23.
- Anchor Hocking Glass Corporation, assignee: *See*—  
 Fouse, Frederick Z.  
 McNamara, William L., and Fouse.  
 Podel, Abraham.
- Anchor Manufacturing Company, assignee: *See*—  
 Johansson, Ernest G.  
 Johansson, Ernest G., and Young.
- Anchorage Homes, Inc., assignee: *See*—  
 Rausch, William W.
- Ancker, Enock, Fort Bayard, N. Mex. Tablet container and dispenser. 2,415,859; Feb. 18.
- Andersen, Arthur H.: *See*—  
 Kaufman, Charles, and Andersen.
- Andersen, Arthur H., M. Eaton, and A. C. Holm, Shawinigan Falls, Quebec, assignors to Shawinigan Chemicals Limited, Montreal, Quebec, Canada. Acetylene generation. 2,415,328; Feb. 4.
- Andersen, Carl N., Pleasantville, N. Y., assignor, by mesne assignments, to Gallowhur Chemical Corporation. Aromatic mercury phenolates of halogenated aromatics. 2,429,086; Oct. 14.
- Andersen, Thomas K., Port Richmond, N. Y. Digging attachment for tractors or the like. Re. 22,855; Mar. 25.
- Anderskow, Alex A., Chicago, Ill. Loose-leaf binder. 2,421,404; June 3.
- Anderson, Albert A., Hobart, Ind., assignor to Standard Oil Company, Chicago, Ill. Prevention of corrosion in ferrous metal pipe lines carrying refined petroleum distillates. 2,422,515; June 17.
- Anderson, Albert E.: *See*—  
 Otto, Julian A., and Anderson.
- Anderson, Albert F., San Francisco, Calif. Antislipping device for railway cars. 2,431,445; Nov. 25.
- Anderson, Albert L., assignee, et al.: *See*—  
 Krebs, Daniel D.
- Anderson, Alf E., Milton, Mass. Electrode holder. 2,422,385; June 17.
- Anderson, Alva E., Spring Lake, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Harmonic generator. 2,423,078; July 1.
- Anderson, Alvin P., Lafayette, and F. H. Stross, Berkeley Woods, assignors to Shell Development Company, San Francisco, Calif. Asphalt compositions having improved adhesivity to aggregate. 2,427,488; Sept. 16.
- Anderson, Arthur H., West Hartford, Conn. Folding rack. 2,429,041; Oct. 14.
- Anderson, Arthur N., Brooklyn, N. Y. Life raft releasing mechanism. 2,425,910; Aug. 19.
- Anderson, Arthur N., Brooklyn, assignor to H. M. Anderson, New York, N. Y. Stowage bracket for floats on shipboard. 2,425,911; Aug. 19.
- Anderson-Bolling Mfg. Co., assignee: *See*—  
 Duffy, Thomas I.
- Anderson, Carl, Erskine, Minn. Lawn mower grinder. 2,432,851; Dec. 16.
- Anderson, Carl D., R. B. Leighton, C. H. Wilts, Pasadena, and A. L. Melzian, Altadena, Calif., assignors to United States of America, as represented by the Secretary of the Navy. Rocket launcher for aircraft. 2,414,579; Jan. 21.
- Anderson, Carl E., Newark, N. J. Pump. 2,420,806; May 20.
- Anderson, Carl E., East Orange, assignor to Eastern Tool & Mfg. Co., Bloomfield, N. J. Slide loop buckle. 2,422,459; June 17.
- Anderson, Carl R., assignor to Swanson Tool and Machine Products, Erie, Pa. Damper. 2,414,503; Jan. 21.
- Anderson, Catherine, assignee, et al.: *See*—  
 Anderson, Ernest.
- Anderson, Clare, Fayson Lakes, N. J., assignor to Realty Industrial Corporation. Electrical measuring apparatus. 2,426,383; Aug. 26.
- Anderson, Clayton & Co., assignee: *See*—  
 Fulmer, Ellis L., Dunning, and Fash.
- Anderson, David W., Chicago, Ill., assignor to Pettibone Mulliken Corporation. Railway frog and crossing. 2,427,830; Sept. 23.
- Anderson, Douglas G., assignor to Hardinge Brothers, Inc., Elmira, N. Y. Lathe spindle drive. 2,419,622; Apr. 29.
- Anderson, Earl I., Manhasset, and A. Barco, Jackson Heights, N. Y., assignors to Radio Corporation of America. Ground speed indicator. 2,422,064; June 10.
- Anderson, Edmund A.: *See*—  
 Boyle, Edward J., and Anderson.
- Anderson, Edward H., Chicago, Ill. Book holder. 2,422,877; June 24.
- Anderson, Emery A., Norman, Okla. Knockdown back rest. 2,432,366; Dec. 9.
- Anderson, Eric W.: *See*—  
 Doering, Charles and H. H., Anderson, and Skoglund.
- Anderson, Ernest, assignor of one-half to C. Anderson, doing business as Kate Manufacturing Company, Minneapolis, Minn., and one-half to K. E. Luger. Trellis construction. 2,418,151; Apr. 1.
- Anderson, Ernst G. K., E. H. Anderson, administrator of said E. G. Anderson, deceased, assignor to Simplex Electric Company, Chicago, Ill. Coupling device. 2,414,789; Jan. 28.
- Anderson, Francis M., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla. Oil base drilling fluid. 2,430,039; Nov. 4.



- Anderson, Frank C., U. S. Coast Guard. Parachute release. 2,424,215; July 22.
- Anderson, Frank J. and D. R. Williams, assignors to Monolith Portland Midwest Company, Laramie, Wyo. Producing aluminum oxide substantially free from silica. 2,421,918; June 10.
- Anderson, Frederick, and F. D. Couzzen, Hawthorne; said Anderson assignor to A. Brearley and V. M. Branel, Monterey Park, Los Angeles, Calif. Venetian blind. 2,421,308; May 27.
- Anderson, George M., Downey, and B. Kriegel, Los Angeles, assignors to Baker Oil Tools, Inc., Vernon, Calif. Safety lock for well tools. 2,429,910; Oct. 28.
- Anderson, Gilbert R., Chattanooga, Tenn., assignor to Hercules Powder Company, Wilmington, Del. Polypentaerythritol esters of rosin acids. 2,420,926; May 20.
- Anderson, Gustave A., Chicago, Ill. Milking machine claw. 2,428,350; Oct. 7.
- Anderson, Gustave A., assignor to Rite-Way Products Co., Chicago, Ill. Sterilizing rack. 2,419,191; Apr. 22.
- Anderson, Harold C., Chicago, Ill. Contrarotation propeller. 2,424,135; July 15.
- Anderson, Harold E., administrator: *See—*  
Anderson, Ernst G. K.
- Anderson, Helen M., assignee: *See—*  
Anderson, Arthur N.
- Anderson, Helmer, Minneapolis, Minn., assignor to General Mills, Inc. Compacting flour in bags. 2,419,330; Apr. 22.
- Anderson, Hugh E.: *See—*  
Watson, John H., Anderson, and Angel.
- Anderson, James A., Memphis, Tenn. Adjustable transformer. 2,424,379; July 22.
- Anderson, James E., Spokane, Wash. Dial operating device. 2,428,135; Sept. 30.
- Anderson, James L., Closter, N. J., assignor to Air Reduction Company, Incorporated. Torch cutting machine. 2,419,983; May 6.
- Anderson, James L., Closter, N. J., assignor to Air Reduction Company, Incorporated. Remote speed control of electric motors. 2,420,346; May 13.
- Anderson, James S., Vancouver, British Columbia, Canada. Convertible ladder. 2,418,862; Apr. 15.
- Anderson, John: *See—*  
Schelling, William T., and Anderson.
- Anderson, John M., Sawyer, Wis. Electric cable strap. 2,418,539; Apr. 8.
- Anderson, John W., Newtown, Conn. Sleeveless expellant holder for lipstick or the like. 2,419,526; Apr. 29.
- Anderson, John W., Elizabeth, assignor, by mesne assignments, to Titeflex, Inc., Newark, N. J. Connecting shielded ignition leads. 2,420,118; May 6.
- Anderson, John W., Gary, Ind., assignor to Productive Inventions, Inc. Wiper blade connector mechanism. 2,432,693; Dec. 16.
- Anderson, Joseph H., assignor to J. P. Seeburg Corporation, Chicago, Ill. Automatic phonograph. 2,416,425; Feb. 25.
- Anderson, Louis A., assignor to General Motors Corporation, Dayton, Ohio. Pneumatic barrel buffer for guns. 2,422,767; June 24.
- Anderson, Louis A., assignor to General Motors Corporation, Dayton, Ohio. Buffer. 2,426,661; Sept. 2.
- Anderson, Louis E., Jr., and R. A. Coolahan, assignors to Hercules Powder Company, Wilmington, Del. Foundry mold coating. 2,425,978; Aug. 19.
- Anderson, Marshall, Marblehead, Mass., assignor to General Electric Company. Bearing construction. 2,427,541; Sept. 16.
- Anderson, Nelson, Bloomfield, N. J., and R. R. Hall, Alexandria, Va., assignors to United States of America, as represented by the Secretary of War. Propellant retainer. 2,432,706; Dec. 16.
- Anderson, Olaf G., Ironwood, Mich. Folding reclining chair. 2,431,670; Dec. 2.
- Anderson, Olaf H., assignee: *See—*  
Schneider, Edgar R.
- Anderson, Olaf R., assignor, by mesne assignments, to The Bastian-Blessing Company, Chicago, Ill. Method of and apparatus for heating liquefied gas fuel. 2,418,446; Apr. 8.
- Anderson, Peter, assignor to Washington Iron Works, Seattle, Wash. Self-righting dump car. 2,422,283; June 17.
- Anderson, Peter, assignor to Washington Iron Works, Seattle, Wash. Grease-sealed underwater pulley block. 2,431,446; Nov. 25.
- Anderson, Philip P., Jr., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Gas purger and solution regulator in vacuum type absorption refrigerating apparatus. 2,432,978; Dec. 23.
- Anderson, Raymond T., Lakewood, assignor, by mesne assignments, to The V. D. Anderson Company, Cleveland, Ohio. Screening and conveying solids of an oil separating tank. 2,420,927; May 20.
- Anderson, Reuben B., St. Paul, Minn. Window construction. 2,421,309; May 27.
- Anderson, Rex R., Marshall, Mich. Apparatus for compartment heating. 2,417,463; Mar. 18.
- Anderson, Rexford O., and W. E. Walsh, assignors to Foote Bros. Gear and Machine Corporation, Chicago, Ill. Apparatus for absorbing shock loads. 2,429,253; Oct. 21.
- Anderson, Russell M., Kansas City, Mo. Shoe rearching and straightening appliance. 2,423,921; July 15.
- Anderson, Scott, Champaign, assignor to Illinois Glove Company, Chicago, Ill. Glove construction. 2,433,327; Dec. 30.
- Anderson, Theodore T., Chicago, Ill. Sharpener or pointer for pencils and the like. 2,431,447; Nov. 25.
- Anderson, V. D., Company, The, assignee: *See—*  
Anderson, Raymond T.
- Anderson, Vernon H., Salt Lake City, Utah. Coin chute. 2,430,320; Nov. 4.
- Anderson, Walter A., Bridgeport, Conn., assignor to Underwood Corporation, New York, N. Y. Front feed mechanism for writing machines. 2,425,451; Aug. 12.
- Anderson, Walter R., Cleveland, Ohio. Scraper. 2,418,813; Apr. 15.
- Anderson, Warren A., West Brighton, Staten Island, N. Y., assignor to Radio Corporation of America. Frequency measurement. 2,422,386; June 17.
- Anderson, Warren A., New Dorp, Staten Island, N. Y., and R. E. Mathes, Silver Spring, Md., assignors to Radio Corporation of America. Start-stop electronic regenerative telegraph signal repeater. 2,430,547; Nov. 11.
- Anderson, Wilbur G., Jr., assignor to American Box Board Company, Grand Rapids, Mich. Reinforced receptacle. 2,418,963; Apr. 15.
- Anderson, Wilford A., assignor to G. H. Tennant Company, Minneapolis, Minn. Floor surfacing machine. 2,429,974; Nov. 4.
- Anderson, Will R., assignee, et al.: *See—*  
Krebs, Daniel D.
- Anderson, William B., Detroit, Mich., A. W. Haley, Longmeadow, and A. H. Kelly, Springfield, Mass., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Refrigeration apparatus. 2,425,021; Aug. 5.
- Anderson, William M., Minneapolis, Minn., assignor of one-fourth to O. W. Giese, Washington, D. C., and one-fourth to M. H. Graham, St. Louis Park, Minn. Piston and cylinder construction. 2,419,192; Apr. 22.
- Anderson, Wilmer C., Douglaston, assignor to Arma Corporation, Brooklyn, N. Y. Voltage control apparatus. 2,428,693; Oct. 7.
- Andersson, Nils A., Alsten, assignor to A/B Chr. Olsson, Värtn, Sweden. Tank wagon welded in one piece. 2,426,481; Aug. 26.
- Andes, Ralph V., South Charleston, W. Va., and N. C. Ludwig, Chicago, Ill. High-temperature cement modifier. 2,429,211; Oct. 21.
- Andra, Anita, New York, N. Y. Beret. 2,416,507; Feb. 25.
- Andreasen, Juel L., Salinas, Calif. Dentist's mobile equipment unit. 2,424,729; July 29.
- Andres Bay Trading Corporation, assignee, et al.: *See—*  
Naugle, John J.
- Andres, Lloyd J., Itasca, Ill. Coin conduit. 2,430,658; Nov. 11.
- Andres, Louis C.: *See—*  
Joly, Leon, and Andres.
- Andresen, Garwood C., Chicago, Ill., and H. Rockey, Denver, Colo., assignors to Remington Arms Company, Inc., Bridgeport, Conn. Bullet trap. 2,422,284; June 17.
- Andresen, Gilbert J. C., Cuyahoga Falls, Ohio. Automatic limiter system. 2,418,389; Apr. 1.
- Andresen, Gilbert J. C., assignor to Wingfoot Corporation, Akron, Ohio. Leak detector. 2,432,367; Dec. 9.
- Andress, Harry J., Jr.: *See—*  
Reiff, Orland M., Hartough, and Andress.
- Andrew, James D., Jr., Essex Fells, assignor to The Babcock & Wilcox Company, Rockleigh, N. J. Tube spacer and support. 2,415,068; Feb. 4.
- Andrew, John P.: *See—*  
Ledin, Charles, and Andrew.
- Andrews, Albert H., Jr., U. S. Navy. Meter indicator photographic recording instrument. 2,427,342; Sept. 16.
- Andrews-Alderfer Processing Company, Incorporated, assignee: *See—*  
Alderfer, Sterling W.
- Andrews, Alvadore M., Camp White, Oreg. Hair drying helmet with flexible inner wall. 2,416,788; Mar. 4.
- Andrews, Arthur E., London, and W. F. Johnson, Barnhurst, assignors to Mentmore Manufacturing Co. Limited, London, England. Ink reservoir pen. 2,431,015; Nov. 18.
- Andrews, Daly P., B. D. Heeger, and A. P. Smith; said Smith assignor to W. M. Sanders, Mountain Grove, Mo. Pulsator-type fluid motor for power-driven saws. 2,420,406; May 13.
- Andrews, Edward D., assignee: *See—*  
Alderfer, Sterling W.
- Andrews, Edward D., Akron, Ohio, assignor to The Quaker Oats Company, Chicago, Ill. Apparatus for treating starch-containing material. 2,414,185; Jan. 14.
- Andrews, Edward D., Akron, Ohio, assignor to The Quaker Oats Company, Chicago, Ill. Method and apparatus for reducing turbulence to increase the density of the material within a container being packed. 2,426,574; Aug. 26.
- Andrews, Edward F., assignee: *See—*  
O'Brien, William J.
- Andrews, George H.: *See—*  
Taylor, William H., Pierce, and Andrews.



- Andrews, Gilman B., Hempstead, N. Y., assignor to Sperry Gyroscope Company, Inc. Rotating radio beacon simulator. 2,429,597; Oct. 28.
- Andrews, Hervey N., San Francisco, Calif. Roof gutter assembly. 2,421,978; June 10.
- Andrews, H. P., Paper Company, assignee: *See—*  
Jahoda, Edward.
- Andrews, John L., Fairfield, Ill., assignor to Hotpoint Inc. Push-button switch. 2,431,904; Dec. 2.
- Andrews, L. V., and G. A. Rehm, assignors to Riley Stoker Corporation, Worcester, Mass. Steam purifying apparatus. 2,424,212; July 22.
- Andrews, Nadejda V., assignee: *See—*  
Kingsley, Joseph F.
- Andrews, Norman F., assignor to Deere & Company, Moline, Ill. Self-propelled implement. 2,425,855; Aug. 19.
- Andrews, Norman F., assignor to Deere & Company, Moline, Ill. Conveying mechanism for husking rolls. 2,431,016; Nov. 18.
- Andrews, Percival W., assignee: *See—*  
Dewan, Leon.
- Andrews, Raynal W., Jr., New Kensington, and A. T. Deily, assignors to Aluminum Company of America, Pittsburgh, Pa. Metal drawing apparatus. 2,419,870; Apr. 29.
- Andrews, Weldon R., Seattle, Wash., assignor to Hartwell Aviation Supply Co., Los Angeles, Calif. Flush-type door latch. 2,416,889; Mar. 4.
- Andrus, Lester, Glenwood Springs, Colo. Beet harvester. 2,421,534; June 3.
- Andrus, Roy S., Tacoma, Wash. Saw setting tool. 2,432,269; Dec. 9.
- Anemostat Corporation of America, assignee: *See—*  
Kurth, Franz J., and Honerkamp.
- Kurth, Franz J., Honerkamp, and Kunen.
- Angel, Charles M.: *See—*  
Blackburn, Joseph B., and Angel.
- Angel, Charles M., Huntington, W. Va., and J. B. Blackburn, Richmond, Va. Indicating mechanism. 2,415,720; Feb. 11.
- Angel, Edward R.: *See—*  
Watson, John H., Anderson, and Angel.
- Angell, Charles H., assignor to Universal Oil Products Company, Chicago, Ill. Catalytic conversion of fluid reactants. 2,418,003; Mar. 25.
- Angell, Charles H., assignor to Universal Oil Products Company, Chicago, Ill. Apparatus for contacting fluids with subdivided solids. 2,433,726; Dec. 30.
- Angell, Charles H., assignor to S. C. Hurley, Jr., Danville, Ill. Device for orienting articles. 2,433,561; Dec. 30.
- Anglo-Iranian Oil Company, assignee: *See—*  
Strang, Leslie C.
- Anglo-Iranian Oil Company, Limited, assignee: *See—*  
Birch, Stanley F., and Lowry.
- Fawcett, Eric W. M.
- Fawcett, Eric W. M., and Jenkins.
- Howes, Donald A.
- Anicetti, Robert J., Beverly, Mass., assignor to The United States of America as represented by the Atomic Energy Commission. Quick locking furnace base plate. 2,431,905; Dec. 2.
- Anish, Alfred W., Johnson City, N. Y. Benzoxazoles and preparation. 2,429,178; Oct. 14.
- Anish, Alfred W., Johnson City, N. Y. Substituted 2- $\beta$ -acetanilidovinyl benzoxazoles and preparation. 2,429,179; Oct. 14.
- Anish, Alfred W., Johnson City, assignor to General Aniline & Film Corporation, New York, N. Y. Sensitizing photographic silver-halide emulsions. 2,415,927; Feb. 18.
- Anish, Alfred W., Johnson City, assignor to General Aniline & Film Corporation, New York, N. Y. Sensitizing silver halide emulsions. 2,427,177; Sept. 9.
- Anish, Alfred W., Johnson City, assignor to General Aniline & Film Corporation, New York, N. Y. Trinuclear cyanine dyes. 2,432,060; Dec. 2.
- Anish, Alfred W., Vestal, assignor to General Aniline & Film Corporation, New York, N. Y. Polycyclic diketopyrimidines. 2,423,218; July 1.
- Anish, Alfred W., Johnson, and L. C. Hensley, Binghamton, assignors to General Aniline & Film Corporation, New York, N. Y. Photographic emulsions containing sensitizing dyes. 2,423,217; July 1.
- Anish, Alfred W., Johnson, and L. C. Hensley, Binghamton, assignors to General Aniline & Film Corporation, New York, N. Y. Carbocyanines from alicyclicdioxo azoles. 2,429,574; Oct. 21.
- Annin, Douglas H., Oakland, assignor, by mesne assignments, to Fluid Control Engineering Co., Emeryville, Calif. Liquid level gauge. 2,418,614; Apr. 8.
- Annin, Douglas H., Oakland, assignor to Fluid Control Engineering Co., Piedmont, Calif. Fluid flow control device. 2,433,414; Dec. 30.
- Annis, Robert B., Indianapolis, Ind. Dynamic balancer. 2,420,765; May 20.
- Annis, Russell K.: *See—*  
Howe, Lewis G., Smith, and Annis.
- Anselmi, Anthony C., assignor to Hellermann Electric Limited, Oxford, England. Device for stretching flexible members. 2,422,065; June 10.
- Ansorge, Louis E., assignor to Eastman Mfg. Company, Manitowoc, Wis. Coupling. 2,423,632; July 8.
- Anstett, Carl J., assignee, et al.: *See—*  
Anstett, Edgar P.
- Anstett, Edgar P.: *See—*  
Hamilton, Thomas W., and Anstett.
- Anstett, Dolly, assignee, et al.: *See—*  
Anstett, Edgar P.
- Anstett, Edgar P., assignor of twenty per cent to C. J. Anstett and twenty-five per cent to D. Anstett, Chicago, Ill. Nailing machine. 2,423,821; July 15.
- Anstett, Edgar P., assignor of twenty per cent to C. J. Anstett and twenty-five per cent to Dolly Anstett, Chicago, Ill. Nail. 2,428,259; Sept. 30.
- Anstett, Edgar P., assignor of twenty per cent to C. J. Anstett and twenty-five per cent to D. Anstett, Chicago, Ill. Magazine and feed means for fastening machines. 2,430,321; Nov. 4.
- Anstett, Edgar P., assignor of twenty per cent to C. J. Anstett and twenty-five per cent to D. Anstett, Chicago, Ill. Nailing machine. 2,430,322; Nov. 4.
- Antalek, John J., assignor to The Rauland Corporation, Chicago, Ill. High level modulation system. 2,422,878; June 24.
- Antepenko, Alexander S., Berwyn, Ill. Lacing probe. 2,421,110; May 27.
- Antes, Leland L., Houston, Tex., assignor to Standard Oil Development Company. Magnetometer. 2,420,580; May 13.
- Anthes, Clifford C., Union, N. J., assignor to Union Carbide and Carbon Corporation. Porous disc type gas mixer. 2,417,670; Mar. 18.
- Anthes Force Oiler Company, assignee: *See—*  
Tolbert, William P.
- Anthony, Charles, Philadelphia, Pa. Device for forming helical coils. 2,432,080; Dec. 9.
- Anthony Company, assignee: *See—*  
Anthony, William C., and Wachter.
- Novotney, Frank A.
- Wachter, Lester W., and Kimber.
- Anthony, David S., assignor to Anthony Tool Co., San Antonio, Tex. Toolholder. 2,416,975; Mar. 4.
- Anthony Development Company, assignee: *See—*  
Johnson, Vernon R., and Wachter.
- Anthony, Herman R. C., Madison, Wis., assignor to Ray-O-Vac Company. Dry battery wrapper. 2,416,079; Feb. 18.
- Anthony, Herman R. C., Madison, Wis., assignor to Ray-O-Vac Company. Manufacturing dry cells. 2,419,244; Apr. 22.
- Anthony Tool Co., assignee: *See—*  
Anthony, David S.
- Anthony, William C., and L. W. Wachter, assignors to Anthony Company, Streator, Ill. Twin lift. 2,418,494; Apr. 8.
- Anthracte Equipment Corporation, The, assignee: *See—*  
Johnson, Raymond C.
- Anti-Abtradants (Proprietary) Limited, assignee: *See—*  
Haarhoff, Daniel V.
- Anties, Leo C., Wenatchee, Wash. Treating and applying live pollen. 2,430,659; Nov. 11.
- Antonia, Edgerton J.: *See—*  
Antonia, Vega C. and E. J.
- Antonia, Vega C. and E. J., Manitowoc, Wis. Support for kitchen containers. 2,427,335; Sept. 16.
- Antonio, Adolph L., Baton Rouge, La., assignor, by mesne assignments, to Jasco, Incorporated. Separation and segregation of a material from a liquid mixture by means of a solvent. 2,417,048; Mar. 11.
- Antrim, Louis C., New York, N. Y., and F. Schultz, Cliffside Park, assignors to Autographic Register Company, Hoboken, N. J. Paper feeding device for writing machines. 2,426,333; Aug. 26.
- Apatow, Simon L., Brentwood, N. Y. Electric immersion heater. 2,429,303; Oct. 21.
- Apblett, Albert V., and James E. Bain, Detroit, Mich. Golf equipment holder and carrier. 2,428,954; Oct. 14.
- Apco Mossberg Company, assignee: *See—*  
Storrie, William.
- Apel, John H.: *See—*  
Millikin, Arnold S., and Apel.
- Apex Electrical Manufacturing Company, The, assignee: *See—*  
Davis, Archibald H., Jr.
- Kirby, James B.
- Apex Railway Products Co., assignee: *See—*  
Lave, Roy E.
- Apfelbaum, Huna L., assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Nasal inhaler. 2,421,177; May 27.
- Apfelbaum, Huna L., assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Hinge. 2,429,447; Oct. 21.
- Appel, Harry A., Bronx County, N. Y., and E. J. Le Blanc, Middlesex County, Mass. Apparatus for grinding food in a vacuum chamber. 2,425,912; Aug. 19.
- Appleby, David, assignee: *See—*  
Appleby, Sidney.
- Appleby, Sidney, assignor of one-half to D. Appleby, Toronto, Ontario, Canada. Phonographic apparatus. 2,416,135; Feb. 18.
- Appleby, Walter G., and L. L. Lovell, Houston, Tex., and M. P. L. Love, Alton, Ill., assignors to Shell Development Company, San Francisco, Calif. Synthesis of branched chain hydrocarbons. 2,429,575; Oct. 21.



- Applegate, Lindsay M., Portland, Oreg. Stereoscopic range and height finder with adjustable reticles. 2,425,713; Aug. 19.
- Applegate, Walter N., Point Pleasant, N. J., and C. A. Petersen, Brooklyn, N. Y. Display support or fixture. 2,421,232; May 27.
- Appelman, Joseph F., Chicago, Ill. Garment hanger. 2,426,292; Aug. 26.
- Appleton Electric Company, assignee: *See*—  
Tornblom, Nils A.
- Applied Research Laboratories, assignee: *See*—  
Dietert, Harry W., and King.
- Applied Sugar Laboratories, Inc., assignee: *See*—  
Kochil, Ernest G.
- Aquacide Company, assignee: *See*—  
Crowther, Harold E.
- Aralac, Inc., assignee: *See*—  
Lis, Leon, and Horton.
- Archer-Daniels-Midland Company, assignee: *See*—  
Paterek, William.
- Aranoff, Kenneth, Highland Park, Ill. Picture display frame. 2,428,772; Oct. 14.
- Arant, Perry, assignor to Clayton Manufacturing Company, Alhambra, Calif. Fuel pressure control and ignition check for burners. 2,417,341; Mar. 11.
- Arbogast, Alfred C., assignor to Northern Indiana Brass Company, Elkhart, Ind. Valve. 2,418,447; Apr. 8.
- Arbogast, Alfred C., assignor to Northern Indiana Brass Company, Elkhart, Ind. Valve. 2,418,448; Apr. 8.
- Arbogast, Fred, Akron, Ohio. Hook attachment for artificial bait. 2,429,339; Oct. 21.
- Arc Manufacturing Company Limited, assignee: *See*—  
Haim, Georg, and Zade.
- Archer, Bernard H.: *See*—  
Rickus, George M., Hoffman and Archer.
- Archer-Daniels-Midland Company, assignee: *See*—  
Schmidt, Edward W., and Webber.
- Archer, Sydney: *See*—  
Albertson, Noel F., and Archer.
- Archer, William J., San Francisco, Calif., assignor, by mesne assignments, to Accessories, Inc. Wire hood forming machine. 2,416,672; Mar. 4.
- Archibald, Frederick R., Beverly, Mass., assignor to Nepheline Products Limited, Lakefield, Ontario, Canada. Recovery of alumina from ores. 2,420,852; May 20.
- Arciszewski, Frank J.: *See*—  
Morrison, James S., and Arciszewski.
- Arco Company, The, assignee: *See*—  
Foltz, Harold H.  
Williams, David M.
- Arco Welding & Machine Works, Inc., assignee: *See*—  
Kintner, Edwin K.
- Arden, Thomas R., assignor to Bard-Parker Company, Inc., Danbury, Conn. Implement or tool. 2,425,665; Aug. 12.
- Ardron, Gerald L., Seattle, Wash., assignor to Continental Can Company, Inc., New York, N. Y. Container side seam sealing compound applying apparatus. 2,432,707; Dec. 16.
- Arenberg, David L., Boston, Mass., assignor, by mesne assignments, to the Government of the United States of America, as represented by the Secretary of War. Electromechanical apparatus. 2,418,964; Apr. 15.
- Arens, Charles A., assignor to Arens Controls, Inc., Chicago, Ill. Releasable locking mechanism for reciprocable controls. 2,429,383; Oct. 21.
- Arens, Charles A., assignor to Arens Controls, Inc., Chicago, Ill. Control mechanism. 2,430,418; Nov. 4.
- Arens Controls, Inc., assignee: *See*—  
Arens, Charles A.  
Norton, Calhoun.
- Arenson, Emmett, Kansas City, Mo. Dispensing device. 2,423,166; July 1.
- Arey, Fred C.: *See*—  
Hibner, De Los E., and Arey.
- Argus, Incorporated, assignee: *See*—  
Barstow, Carl A.
- Argyle, Christopher S.: *See*—  
Olpin, Henry C., Stanley, and Argyle.
- Arlington, Alfred E., Herkimer, N. Y. Preserving cut flowers. 2,416,136; Feb. 18.
- Arma Corporation, assignee: *See*—  
Aguins, George.  
Anderson, Wilmer C.  
Cunningham, Frederick W.  
Davis, Arthur P.  
Davis, Arthur P., and Agins.
- Armatys, Edward, assignor to Interchemical Corporation, New York, N. Y. Textile decorating composition. 2,421,000; May 27.
- Armington, Raymond Q., Shaker Heights, assignor to The Euclid Road Machinery Co., Euclid, Ohio. Tandem axle construction. 2,422,460; June 17.
- Armington, Raymond Q., Shaker Heights, assignor to The Euclid Road Machinery Co., Euclid, Ohio. Track shoe. 2,425,219; Aug. 5.
- Armistead, Allan B.: *See*—  
Francis, Joseph M., and Armistead.
- Armistead, William H., assignor to Corning Glass Works, Corning, N. Y. Glass having low-power factor. 2,414,504; Jan. 21.
- Armistead, William H., assignor to Corning Glass Works, Corning, N. Y. Alabaster glass. 2,417,898; Mar. 25.
- Armistead, William H., Jr., assignor to Corning Glass Works, Corning, N. Y. Glass having low power factor. 2,431,980; Dec. 2.
- Armitage, Joseph B., Wauwatosa, assignor to Kearney & Trecker Corporation, West Allis, Wis. Machine tool way guard. 2,417,671; Mar. 18.
- Armitage, Joseph B., Wauwatosa, assignor to Kearney & Trecker Corporation, West Allis, Wis. Way guard structure. 2,417,672; Mar. 18.
- Armitage, Joseph B., and T. F. Eserkain, Wauwatosa, assignors to Kearney & Trecker Corporation, West Allis, Wis. Pattern controlled machine tool. 2,415,801; Feb. 11.
- Armor, James C., Bellevue, Pa., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Bayonet connector. 2,432,187; Dec. 9.
- Armour and Company, assignee: *See*—  
Dyrek, John E., and McCaslin.  
Harrington, Bertie S.  
Harwood, James, and Binkerd.  
Hopkins, Ervin W., Josh, and Harriman.  
Kell, Havard L.  
Kell, Havard L., and Ingraham.  
Kuehn, Homer W., and Wheeler.  
Lesparre, Jean N., and Carlson.  
May, Edward.  
Potts, Ralph H.  
Whiting, John A.
- Armour Research Foundation, assignee: *See*—  
Camras, Marvin.  
Camras, Marvin, and Zenner.  
Vagtberg, Harold A., Camras, and Zenner.
- Arms, Merton H., assignor to Bryant Chucking Grinder Company, Springfield, Vt. Taper grinding machine. 2,431,671; Dec. 2.
- Armstrong, Adam E.: *See*—  
Dehn, William A., and Armstrong.
- Armstrong, Adam E., assignor to Armstrong Machine Works, Three Rivers, Mich. Temperature control for space heating systems. 2,429,254; Oct. 21.
- Armstrong, C. M., Inc., assignee: *See*—  
Block, Richard J.
- Armstrong Cork Company, assignee: *See*—  
Almy, Richard.  
Almy, Richard, and Ehle.  
Berger, John L.  
Billmeyer, Bruce R.  
Burr, Arthur A.  
Ehle, George E.  
Green, Clarence C.  
Hill, Ralph M.  
Hornberger, Clarence L.  
Jennings, Arthur L.  
Johnson, Norman A., and Stern.  
McGarvey, Alan R., and Callis.  
Wilson, Gardiner C.  
Wisler, John J.
- Armstrong, Ernest, Camden, N. J. Dust guard for journal boxes. 2,414,921; Jan. 28.
- Armstrong, Ernest, Camden, N. J. Dust guard well closure. 2,417,853; Mar. 25.
- Armstrong, George C., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Timing device. 2,414,432; Jan. 21.
- Armstrong, George C., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Overload relay. 2,424,297; July 22.
- Armstrong, George C., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrically heated, thermoresponsive switch. 2,428,539; Oct. 7.
- Armstrong, Gordon, Cleveland, Ohio. Portable baby incubator. 2,417,962; Mar. 25.
- Armstrong, Harry H., Lakewood, assignor to Lee Wilson Engineering Company, Inc., Cleveland, Ohio. Charge support for the base of cover-type furnaces. 2,414,996; Jan. 28.
- Armstrong, John E.: *See*—  
Piccardo, Jack E., and Armstrong.
- Armstrong, Leslie, Detroit, Mich. Circuit breaker for direction indicators. 2,414,132; Jan. 14.
- Armstrong, Leslie, Detroit, Mich., Typewriter alarm. 2,422,650; June 24.
- Armstrong Machine Works, assignee: *See*—  
Armstrong, Adam E.  
Dehn, William A., and Armstrong.
- Armstrong, Nell M., Lowell, Mass. Knitting socks on two needles. 2,416,040; Feb. 18.
- Armstrong, Octavia E., Salinas, Calif. Fender device for heated pots. 2,423,219; July 1.
- Armstrong, Robert H.: *See*—  
Clement, Clyde H., and Armstrong.
- Armstrong, Robert T., Pompton Plains, N. J., assignor to United States Rubber Company, New York, N. Y. Polymerization of maleic anhydride and methallyl alkyl ethers. 2,415,400; Feb. 11.
- Armstrong Siddeley Motors Limited, assignee: *See*—  
Clark, Thomas.  
Heppner, Fritz A. M.  
Heppner, Fritz A. M., Voce, and Evans.
- Arnanz, Laura V. D., Barcelona, Spain. Electrical apparatus for disinfecting casings (intestines), especially catgut. 2,425,422; Aug. 12.



- Arnason, Arni, Park Ridge, Ill., assignor to Addressograph-Multigraph Corporation, Wilmington, Del. Calculating machine. 2,431,906; Dec. 2.
- Arndt, John P., Jr., Euclid, assignor to The Brush Development Company, Cleveland, Ohio. Piezoelectric transducer. 2,423,922; July 15.
- Arndt, Oscar, Detroit, Mich. Center drill. 2,415,329; Feb. 4.
- Arner, Sterling R., Charlotte, N. C., assignor to Old Dominion Box Company, Lynchburg, Va. Paper box construction. 2,415,721; Feb. 11.
- Arnesen, Walter A., Flushing, N. Y. Caution transformer. 2,418,687; Apr. 8.
- Arnest, Harry L., Arlington, Va. Razor blade conditioner. 2,417,040; Mar. 11.
- Arnett, Leslie: *See—*  
Waite, Charles C., Bender, and Arnett.
- Arnett, Loten F., Ontario, Calif. Loading apparatus. 2,427,114; Sept. 9.
- Arnett, Paul J., South Charleston, W. Va. Mail box. 2,427,039; Sept. 9.
- Arnham, Albert A., Los Angeles, assignor to Solar Aircraft Company, San Diego, Calif. Fan. 2,415,621; Feb. 11.
- Arnham, Albert A., Los Angeles, assignor to Solar Aircraft Company, San Diego, Calif. Insulating and ventilating structure. 2,427,698; Sept. 23.
- Arnham, Albert A., Point Loma, assignor, by mesne assignments, to Solar Aircraft Company, San Diego, Calif. Fuel-air mixture control for aircraft heaters. 2,418,566; Apr. 8.
- Arnham, Albert A., assignor to Solar Aircraft Company, San Diego, Calif. Low and high fire control for liquid fuel burners. 2,429,739; Oct. 28.
- Arnold Bros. Company, assignee: *See—*  
Fitzpatrick, Jeremiah.
- Arnold Dryer Co., assignee: *See—*  
French, Henry C.
- Arnold, George D., Peru, Ind. Individual room air conditioner. 2,415,076; Feb. 4.
- Arnold, Luther B., Jr., Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Sizing packages of yarn. 2,419,756; Apr. 29.
- Arnold, Orlan M., Troy, N. Y. Plastic composition and making. 2,433,727; Dec. 30.
- Arnold, Ralph J., Western Springs, assignor, by mesne assignments, to Kellogg Switchboard and Supply Company, Chicago, Ill., and R. D. Collins, Beverly Hills, Calif. Supporting device. 2,420,391; May 13.
- Arnold, Ralph J., Western Springs, assignor, by mesne assignments, to Kellogg Switchboard and Supply Company, Chicago, Ill. Colling means for making elastic coil structures. 2,424,426; July 22.
- Arnold, Robert B., Richmond, Va., assignor to Tobacco By-Products and Chemical Corporation, Louisville, Ky. Tobacco containing ten per cent nicotine as an insecticide. 2,431,672; Dec. 2.
- Arnold, Rebecca J.: *See—*  
Vittum, Paul W., and Arnold.
- Arnold, William A., Oak Ridge, Tenn., and W. G. Norton, assignors to Eastman Kodak Company, Rochester, N. Y. Optical support. 2,430,551; Nov. 11.
- Arnoldy, Roman F., Houston, Tex., assignor to The Linde Air Products Company. Controlling distortion, straightening distorted objects and/or altering the shape of metal objects. 2,428,825; Oct. 14.
- Arnott, David D.: *See—*  
Coverley, Robert H., and Arnott.
- Arnott, Edward G. F., Upper Montclair, and C. E. Dawley, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Spark gap device with cold electrodes. 2,427,086; Sept. 9.
- Arnsperger, Lloyd A., Los Angeles, Calif. Animal trap. 2,414,627; Jan. 21.
- Arntzen, Clyde E., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Continuous Grignard reaction process. 2,414,505; Jan. 21.
- Aro Equipment Corporation, The, assignee: *See—*  
Dobie, Edward R.  
Fitch, Clifford E.  
Ginter, Charles W.  
Hitt, Otis D.  
Johnson, James P.  
Marette, Ralph T., and Richards.  
Satterlee, Howard A.
- Arps, Bruno F., New Holstein, Wis. Combination scoop, bulldozer, and scraper. 2,433,019; Dec. 23.
- Arthur, Oscar F., Connellsville, Pa. Pallet. 2,430,267; Nov. 4.
- Arveson, Maurice H., Flossmoor, assignor to Standard Oil Company, Chicago, Ill. Method and apparatus for regeneration of catalyst. 2,431,630; Nov. 25.
- Asher, William J., Colorado Springs, Colo. Cooling device for ironing machines. 2,431,448; Nov. 25.
- Aronheim, Edward, Detroit, Mich. Shower cabinet for bathtubs. 2,424,537; July 29.
- Aronovsky, Samuel I., Peoria, Ill., W. F. Talburt, Berkeley, Calif., and E. C. Lathrop, Peoria, Ill., assignors to the United States of America, as represented by the Secretary of Agriculture. Crown closures. 2,427,699; Sept. 23.
- Aronson, Alexander H., South Orange, N. J., assignor to Ronson Art Metal Works, Inc. Lighter. 2,426,853; Sept. 2.
- Aronson, Theodore F., New York, N. Y. Flexible drill jig. 2,417,539; Mar. 18.
- Arpin, John W., Verona, N. J. Water pistol. 2,423,220; July 1.
- Arps, Frederick B., New Holstein, Wis. Toggle joint lock for dump scoops and the like. 2,415,156; Feb. 4.
- Arquette, Earl E., Milton, Mass. Manufacturing faced building units. 2,422,461; June 17.
- Arrow-Hart & Hegeman Electric Co., The, assignee: *See—*  
Bentley, Robert H.  
Johnson, David W.  
Schleicher, Harold E.
- Arrowood, Charles W., Charlotte, N. C. Stop motion mechanism. 2,420,513; May 13.
- Art Metal Company, The, assignee: *See—*  
Glatthar, George E., and Terr.
- Art Metal Construction Company, assignee: *See—*  
Addington, Loyal R.
- Artzt, Maurice, Princeton, N. J., assignor to Radio Corporation of America. Facsimile apparatus. 2,420,731; May 20.
- Artzt, William, New Rochelle, and M. Rubino, assignors to Sealtag, Inc., New York, N. Y. Seal. 2,422,879; June 24.
- Arundale, Erving, Colonia, and L. A. Mikeska, Westfield, N. J., assignors to Standard Oil Development Company. Producing polyhydric alcohols. 2,421,862; June 10.
- Arundel Coulthard & Company Limited, assignee: *See—*  
Bateman, Loftus H.
- Arveson, Maurice H., Flossmoor, assignor to Standard Oil Company, Chicago, Ill. Catalyst technique. 2,416,729; Mar. 4.
- Arveson, Maurice H., Flossmoor, assignor to Standard Oil Company, Chicago, Ill. Multistage hydrocarbon conversion system. 2,416,730; Mar. 4.
- Arveson, Maurice H., Flossmoor, assignor to Standard Oil Company, Chicago, Ill. Regenerating carbon contaminated catalysts. 2,419,245; Apr. 22.
- Arvey Corporation, assignee: *See—*  
Roach, Earl M.
- Arvidson, Bengt A., Villa Park, assignor to Miller Wrapping and Sealing Machine Company, Chicago, Ill. Wrapping machine. 2,418,449; Apr. 8.
- Arvidson, Paul, Needles, Calif. Hay unloader with extended side wall base and reciprocable bottom forming member. 2,432,852; Dec. 16.
- Arvin, James A., Homewood, and J. V. Hunn, Chicago, Ill., assignors to The Sherwin-Williams Company, Cleveland, Ohio. Process and manufacture of alkyl phenols. 2,415,069; Feb. 4.
- Arvins, Nathan A.: *See—*  
Arvintz, Abraham A., Arvins, and R. A. Arvintz.
- Arvintz, Abraham A., and N. A. Arvins, Brooklyn, and R. A. Arvintz, New York, assignors to Reliable Products Manufacturing Co., Inc., Brooklyn, N. Y. Comb. 2,413,809; Jan. 7.
- Asbestos Manufacturing Company, assignee: *See—*  
Janes, Edwin H.
- Asbill, Clarence M., Jr., assignor to Callaway Mills, La Grange, Ga. Loom beam. 2,432,270; Dec. 9.
- Asbury, Charles T., Fort Lauderdale, Fla. Antiskid device. 2,431,981; Dec. 2.
- Asdell, Bernard K.: *See—*  
Barrett, William H., and Asdell.
- Ash, Charles S., Milford, Mich. Dual wheel brake. 2,422,462; June 17.
- Ash, Charles S., Milford, Mich. Dual wheel assembly. 2,425,856; Aug. 19.
- Ash, Charles S., Milford, Mich. Vehicle wheel. 2,427,378; Sept. 16.
- Ash, Charles S., Milford, Mich. Vehicle axle. 2,432,708; Dec. 16.
- Ash, Harry K., Cincinnati, Ohio, assignor to Interchemical Corporation, New York, N. Y. Coating composition comprising cellulose-aceto-propionate and an alkyl resin. 2,421,001; May 27.
- Ashbaugh, John H., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, Pittsburgh, Pa. Electric iron. 2,427,379; Sept. 16.
- Ashburn, Harry V., Beacon, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Solvent separation of hydrocarbons. 2,414,252; Jan. 14.
- Ashcroft, Donald G.: *See—*  
Caldwell, Walter A., and Ashcroft.
- Ashkenas, Irving L., and S. A. Krieger, Los Angeles, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. Airplane yaw and pitch control. 2,431,449; Nov. 25.
- Ashley, John W., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Heel seat fitting machine. 2,423,136; July 1.
- Ashley, Merwin F., Arlington, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Welt shoe sole attaching. 2,429,255; Oct. 21.
- Ashman, Arthur, assignor to E. S. & A. Robinson, Limited, Bristol, England. Paper, cellulose, and the like bags. 2,429,505; Oct. 21.
- Ashman, Herbert W., Hale, England. Roof and roofing sheets for use thereon. 2,417,899; Mar. 25.
- Ashman, J. Leonard, Stockton, Calif. Portable traveling-saw sawmill. 2,427,038; Sept. 9.
- Ashwood, Norman D., Victoria, British Columbia, Canada. Dispensing machine. 2,419,050; Apr. 15.



- Ashworth, Fred, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for sewing moccasin type shoes. 2,415,401; Feb. 11.
- Ashworth, Fred, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Sewing machine. 2,420,643; May 20.
- Ashworth, Fred, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lockstitch shoe sewing machine. 2,426,662; Sept. 2.
- Ashworth, Wylie, Helena, Mont. Game. 2,419,000; Apr. 15.
- Asiatic Petroleum Company, Limited, The, assignee: *See—* Gollin, Geoffrey J.
- Asinger, Friedrich, Leuna, Germany, assignor, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Preparation of organic sulfonyl chlorides. 2,428,733; Oct. 7.
- Askania Regulator Company, assignee: *See—* Glass, Paul.  
Ziebolz, Herbert.
- Askin, Joseph, Marion, Ind., assignor to Peerless of America, Inc., Chicago, Ill. Heat transfer unit. 2,427,336; Sept. 16.
- Asnes, Benjamin, assignor to Dennison Manufacturing Company, Framingham, Mass. Decalcomania and making. 2,416,673; Mar. 4.
- Aspelin, Leslie L., assignor to Romec Pump Company, Elyria, Ohio. Relief valve. 2,423,281; July 1.
- Aspin, Frank M., Bury, England. Rotary valve assembly for internal-combustion engines, compressors, and the like. 2,429,304; Oct. 21.
- Aspinook Corporation, The, assignee: *See—* Hewitt, Frank C.
- Aspinwall, Robert B., assignor to The Monopower Corporation, Detroit, Mich. Transmission control. 2,430,799; Nov. 11.
- Asselin, James H., Winnetka, Ill. Rail brace. 2,419,701; Apr. 29.
- Asselin, James H., Winnetka, Ill. Rail brace. 2,426,137; Aug. 19.
- Asselin, James H., Winnetka, Ill. Rail brace. 2,426,138; Aug. 19.
- Associated Military Stores, assignee: *See—* Springer, Samuel.
- Asten-Hill Mfg. Co., assignee: *See—* Roslund, John.
- Asten, William P., Preakness, N. J., assignor to Times Facsimile Corporation. Photocell modulator. 2,430,095; Nov. 4.
- Åström, Johan, Nyhamn, Essvik, assignor to Svenska Cellulosa Aktiebolaget, Stockholm, Sweden. Treatment of sulphite pulp and liquor. 2,421,590; June 3.
- Ateliers De Constructions Electriques de Charleroi, assignee: *See—* Mees, Herman.
- Ateliers Neyret-Beylier & Piccard-Pictet (Societe Anonyme), assignee: *See—* Danel, Pierre F.
- Atherton, Archie P., assignor to M. and A. Steinthol, New York, N. Y. Parachute. Re. 22,859; Apr. 1.
- Athey Products Corporation, assignee: *See—* Kuchar, Joseph.
- Athy, Clifford R., assignor to International Derrick and Equipment Company, Columbus, Ohio. Retrieving tool for well bores. 2,431,361; Nov. 25.
- Athy, Clifford R., assignor to International Derrick & Equipment Company, Columbus, Ohio. Producing jars for well drilling tools. 2,431,532; Nov. 25.
- Athy, Lyman C. and P. C. Stuffs, Baltimore, Md., assignors to Pemco Corporation. Flameproofing of fabrics and composition therefor. 2,420,644; May 20.
- Atkins, Carl E., Elgin, Ill., assignor to Tung-Sol Lamp Works, Inc., Newark, N. J. Control system for radio receivers. 2,424,216; July 22.
- Atkins, Carl E., Evanston, Ill., assignor to Tung-Sol Lamp Works, Inc., Newark, N. J. Method of, and apparatus for, concurrent radio transmission and reception. 2,426,581; Sept. 2.
- Atkins, Carl E., Evanston, and F. Furedy, assignors, by mesne assignments, to Sun-Kraft, Inc., Chicago, Ill. Lamp circuit. 2,425,297; Aug. 12.
- Atkins, Earle R., Whittier, assignor to Earle R. Atkins Company, Huntington Park, Calif. Swivel joint assembly. 2,414,997; Jan. 28.
- Atkins, Earle R., Company, assignee: *See—* Atkins, Earle R.
- Atkins, George T.: *See—* Kleiber, Carl E., Campbell, Stines, and Atkins.
- Atkins, George T., Jr., Highlands, Tex., assignor to Standard Oil Development Company. Hydrogenation process and apparatus. 2,429,115; Oct. 14.
- Atkinson, Alan B., Sidcup, assignor to Standard Telephones and Cables Limited, London, England. Tone control arrangement. 2,433,330; Dec. 30.
- Atkinson, Truman L., Ludington, Mich. Locking telescoping rod. 2,431,450; Nov. 25.
- Atkinson, William B., Pittsburgh, L. R. Hill, Wilkinsburg, and H. H. Barker, Irwin, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Semiconducting coated conductors and semiconducting spacers therefor. 2,427,700; Sept. 23.
- Atlantic Coast Fisheries Company, The, assignee: *See—* Savrda, Charles M.  
Savrda, Charles M., and Hunt.
- Atlas, David, Detroit, Mich. Toy acrobat. 2,430,971; Nov. 18.
- Atlas Powder Company, assignee: *See—* Brandner, John D., and Goepp.  
Brown, Kenneth R.  
Goepp, Rudolph M., Jr.  
Hales, Ralph A.  
Rolland, Guy F.  
Sanders, Marshall T.  
Taylor, Walter A.
- Atlantic Products Corporation, assignee: *See—* Hines, Thomas W.
- Atlantic Refining Company, The, assignee: *See—* Chechot, Vladimir L.  
Ciapetta, Frank G.  
Clarke, Thomas H.  
Evans, George H., Klopsch, and McCormick.  
Hersberger, Arthur B., and Gzemski.  
Hersberger, Arthur B., and Heiligmann.  
Leum, Leonard N., Macuga, and Krepis.  
McCormick, Darwin M., Barbour, and Griesinger.  
Nevison, John A.  
Turner, William R.  
Young, William S.
- Atlas Powder Company, assignee: *See—* Bisch, James L.  
Brandner, John D.  
Brown, Kenneth R.  
Cohan, Alvin M.  
Huyett, Daniel D.
- Atlas Steels Limited, assignee: *See—* Hammond, Charles F., and Cameron.
- Atlas Underwear Company, The, assignee: *See—* Lloyd, Merton M.
- Atlee, Zed J., Elmhurst, assignor to General Electric X-Ray Corporation, Chicago, Ill. Anode structure. 2,418,390; Apr. 1.
- Atlee, Zed J., Elmhurst, assignor to General Electric X-Ray Corporation, Chicago, Ill. Rotating anode construction. 2,430,800; Nov. 11.
- Atomic Energy Commission, United States of America, as represented by the: *See—* Anicetti, Robert J.  
Burchfield, Robert D.  
Colbert, Edward.  
Struve, William S.  
Yockey, Hubert P., and Nuding.
- Attias, Joshua, New York, N. Y. Gas heated soldering iron. 2,418,004; Mar. 25.
- Attorney General of the United States, assignee: *See—* Aubert, Emile H.  
Auwärter, Max.  
Bagnulo, Albert.  
Beck, Adolf, Siebel, and Vosskühler.  
Beck, Richard.  
Becker, Helmut, and Broschke.  
Béhin, Raymond.  
Bonrath, Wilhelm, and Urbschat.  
Büttner, Hugo.  
Cohnhoff, Erich.  
Dannöhl, Walter, and Neumann.  
De France, Henri.  
Demeulenaere, Marcel.  
Dietz, Karl.  
Dornier, Claude, Staufer, Wähner, and Bottling.  
Ferner, Bernard M. H. P.  
Fischer, Franz.  
Flury, Placido.  
Gay, Maurice J.  
Gottesmann, Uscha, and Lowenstein.  
Gouy, Leon.  
Hepp, Rudolf.  
Holler, Hermann, and Mues.  
Joachim, Amende, and Ender.  
John, Walter.  
Jung, Erwin P.  
Klinghoffer, Stefan.  
Koehler, Franz.  
Lampel, Walter, and Hörndlein.  
Maillet, Raymond.  
Margaria, Rodolfo.  
Martenet, Louis.  
Martin, Friedrich, Gottschall, and Velde.  
Mertens, Willi.  
Meyer, Michel J.  
Morgenstern, Alfred.  
Mullejans, Paul, and Neugebauer.  
Müller, Oskar, and Kleinschmit.  
Nelles, Johannes, Bayer, Tischbein, and Baehren.  
Penning, Frans M.  
Perrot, Henri.  
Petersen, Boerge.  
Pier, Mathias, and Christmann.  
Plageman, Werner.  
Quebatte, Arthur, and Siegnol.  
Rath, Werner.  
Ratie, Rene J.  
Reiner, August, and Rehm.  
Reiner, Otto.  
Richou, Maxime J.



Attorney General of the United States, assignee: *See—*  
 Continued  
 Riepert, Hermann, and Broschke.  
 Rodanet, Charles H. H.  
 Roosenstein, Hans O.  
 Rühle, Rudolf.  
 Savoye, François.  
 Schlumberger, Marcel.  
 Starck, Werner, and Freudenberger.  
 Steiner, Otto.  
 Von Werder, Fritz.  
 Waseige, Charles R.  
 Wilfert, Karl, and Barényi.  
 Yamamoto, Hideo.  
 Attridge, Richard F., Revere, and E. J. Blouin, Salem, Mass. Tube-bending mandrel. 2,425,298; Aug. 12.  
 Attwell, P. Bob, Seattle, Wash. Fabricated wood staging plank. 2,432,979; Dec. 23.  
 Attwell, P. Bob, Seattle, Wash. Prefabricated roof section. 2,433,728; Dec. 30.  
 Attwell, Harold V.: *See—*  
   Sensel, Eugene E., Attwell, and Goldsby.  
 Atwell, Harold V., Beacon, assignor to The Texas Company, New York, N. Y. Synthesizing hydrocarbons and the like. 2,433,255; Dec. 23.  
 Atwood, Francis C., Newton, Mass., assignor, by mesne assignments, to National Dairy Products Corporation, New York, N. Y. Making an elastic polymer by milling and heating glycol with a copolymer of an alkyl acrylate and maleic anhydride. 2,418,688; Apr. 8.  
 Atwood, Francis C., Newton, Mass., assignor, by mesne assignments, to National Dairy Products Corporation, New York, N. Y. Hardening protein fibre. 2,428,603; Oct. 7.  
 Atwood, Gilbert H., Moon Township, Allegheny County, and D. M. Schwartz, assignors to Dravo Corporation, Pittsburgh, Pa. Marine railway. 2,415,805; Feb. 18.  
 Atwood, John B.: *See—*  
   Trevor, Bertram A., and Atwood.  
 Atwood, John B., Riverhead, N. Y., assignor to Radio Corporation of America. Angle modulation receiving circuits. 2,429,788; Oct. 28.  
 Atwood, John B., and H. O. Peterson, Riverhead, N. Y., assignors to Radio Corporation of America. Pulse communication system. 2,425,315; Aug. 12.  
 Atwood, Kenton: *See—*  
   Grubb, Henry W., O'Hara, and Atwood.  
 Atwood Vacuum Machine Company, The, assignee: *See—*  
   Tierney, William J.  
 Aubert, Emile H., Romette, France; vested in the Attorney General of the United States. Wheel of variable diameter. 2,421,368; June 3.  
 Aubert, Fred B., Grosse Pointe, Mich. Fuel pressure responsive burner control system. 2,425,589; Aug. 12.  
 Aubert, Fred B., Grosse Pointe, Mich. Pilot responsive safety control for liquid fuel burners. 2,427,178; Sept. 9.  
 Aubert, Fred B., Grosse Pointe, Mich. Fuel pressure responsive burner control. 2,430,040; Nov. 4.  
 Aubey, Gerard H., Venice, Calif. Universal mounting attachment for cameras. 2,423,282; July 1.  
 Aubin, Joseph P., assignee, et al.: *See—*  
   Wiseman, Walter S.  
 Auchincloss, Reginald, and F. Linsker, New York, N. Y. Ureido acid esters and making the same. 2,421,233; May 27.  
 Audino, Hector, Teaneck, N. J. Guard for roofing gutters. 2,423,923; July 15.  
 Audrieth, Ludwig F., Dover, N. J., and A. H. Sweeney, Jr., U. S. Army. Recovery of dinitrotoluene. 2,415,402; Feb. 11.  
 Auer, Gustavus, Upper Montclair, N. J. Safety valve. 2,426,808; Sept. 2.  
 Auer, Laszlo, East Orange, N. J., assignor to Interchemical Corporation, New York, N. Y. Flattening agent. 2,418,450; Apr. 8.  
 Auer, Laszlo, South Orange, N. J. Preparing emulsions of soap-free fatty oils. 2,418,451; Apr. 8.  
 Auer, Laszlo, South Orange, N. J. Making coating material emulsions. 2,418,452; Apr. 8.  
 Auer, Laszlo, South Orange, N. J. Process for making coating material emulsions. 2,418,453; Apr. 8.  
 Auer, Laszlo, South Orange, N. J. Isomerized fatty acid esters. 2,418,454; Apr. 8.  
 Auer, Laszlo, South Orange, assignor to Ridbo Laboratories, Inc., Paterson, N. J. Varnish and making the same. 2,422,175; June 17.  
 Auerbach, Isidor, Drew Field, Fla. Calculator. 2,423,822; July 15.  
 Auerbach, Zernach, New York, N. Y. Razor blade dispensing magazine. 2,418,495; Apr. 8.  
 Aufero, John M., Plandome, N. Y. Electric horn control system. 2,420,807; May 20.  
 Aufesser, Gates B., Albany, N. Y. Toothbrush. 2,429,740; Oct. 28.  
 Augensteln, Karl C., and A. Rieth, Cranston, assignors to Speidel Corporation, Providence, R. I. Cathode-ray tube. 2,423,924; July 15.  
 Auger, William F., Winnipeg, Manitoba, Canada. Electric heater for frost shields. 2,431,673; Dec. 2.  
 Augtie, Frank, F. R. Thurston, and E. P. Coleman, Teddington, England. Electrical resistance strain gauge. 2,429,087; Oct. 14.

Augier, Jean A., Belfort, France, assignor to General Electric Company. Electric control circuit. 2,427,542; Sept. 16.  
 Augier, Jean A., Belfort, France, assignor to General Electric Company. Means producing a steep wave front potential for control of electric discharge devices. 2,428,604; Oct. 7.  
 Aulick, Maxwell K., Orlando, Fla., assignor to Scott Aviation Corporation, Lancaster, N. Y. Applying indicia. 2,421,825; June 10.  
 Ault, John D., assignor of 51 per cent to E. E. Wilson, Bakersfield, Calif. Fluid power wheel. 2,419,384; Apr. 22.  
 Aune, Lawrence, Clitherall, Minn. Scaffold. 2,423,167; July 1.  
 Ausfahl, Elmer L.: *See—*  
   Ausfahl, Harry L. and E. L.  
 Ausfahl, Harry L. and E. L., Englewood, Colo. Powder loader. 2,432,645; Dec. 16.  
 Aushman, William S., Wichita, Kans. Trailer for self-propelled combines. 2,418,567; Apr. 8.  
 Austin, Charles D., Norwood, Ohio. Artist's sketching equipment. 2,418,286; Apr. 1.  
 Austin, Chester R.: *See—*  
   Pavlish, Arnold E., and Austin.  
 Austin, Chester R., Columbus, Ohio, and E. J. Rogers, Troy, N. Y., assignors, by mesne assignments, to United Aircraft Corporation, East Hartford, Conn., and Ethyl Corporation, Detroit, Mich. Ceramic body. 2,423,958; July 15.  
 Austin Company, The, assignee: *See—*  
   Short, Leo C., and Iwen.  
 Austin, Dwight E., assignor to Twin Coach Company, Kent, Ohio. Vehicle body construction. 2,426,582; Sept. 2.  
 Austin, Ellsworth W., assignor to La Plant-Choate Manufacturing Co., Inc., Cedar Rapids, Iowa. Vehicle for exploding land mines and for tamping ground. 2,419,308; Apr. 22.  
 Austin, Ellsworth W., assignor to La Plant-Choate Mfg. Co., Inc., Cedar Rapids, Iowa. Earth-working implement. 2,420,027; May 6.  
 Austin, Ellsworth W., assignor to La Plant-Choate Manufacturing Company, Incorporated, Cedar Rapids, Iowa. Push plate mounting for earth movers. 2,426,426; Aug. 26.  
 Austin, Ellsworth W., assignor to La Plant-Choate Manufacturing Company, Incorporated, Cedar Rapids, Iowa. Articulated push frame for earth movers. 2,429,506; Oct. 21.  
 Austin, Harold L., executor: *See—*  
   Leonhard, Lee W., and Collin.  
 Austin, Harold O., and E. D. Bunnell, U. S. Navy. Oxyarc underwater cutting torch. 2,416,278; Feb. 25.  
 Austin, Harold T., Seattle, Wash. Wheel revolving means. 2,418,064; Mar. 25.  
 Austin, Harold T., Seattle, Wash. Amusement device. 2,423,283; July 1.  
 Austin, Harold T., Seattle, Wash. Amusement device. 2,432,709; Dec. 16.  
 Austin, Leslie W., San Jose, assignor, by mesne assignments, to The Permanente Metals Corporation, Oakland, Calif. Refractory composition. 2,433,415; Dec. 30.  
 Austin, Louis, assignee: *See—*  
   Bloss, Benjamin F.  
 Austin Motor Company, Limited, The, assignee: *See—*  
   Charles, Hubert N., and Nossiter.  
   Haefel, Julius C.  
 Austin, Paul R., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of coated fabric. 2,416,041; Feb. 18.  
 Austin, Paul R., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Photographic elements composed of orientable vinyl fluoride polymers. 2,423,749; July 8.  
 Austinal Laboratories, Inc., assignee: *See—*  
   Zahn, Eric H., and Feagin.  
 Auten, Jay C., Royal Oak, assignor to Chrysler Corporation, Highland Park, Mich. Transmission control mechanism. 2,432,710; Dec. 16.  
 Auten, Jay C., Royal Oak, assignor to Chrysler Corporation, Highland Park, Mich. Transmission control mechanism. 2,432,711; Dec. 16.  
 Auto Arc-Weld Manufacturing Co., The, assignee: *See—*  
   Ekins, William J.  
 Autocar Company, assignee: *See—*  
   Bachman, Benjamin B., and Fogg.  
 Autocar Company, The, assignee: *See—*  
   Bachman, Benjamin B., and Macklin.  
 Auto City Plating Co., assignee: *See—*  
   Cassin, Anthony F.  
 Auto-Diesel Piston Ring Company, assignee: *See—*  
   Smith, Rolland D.  
 Autoflight Corporation, assignee: *See—*  
   Craig, Burnie M., and Giannini.  
   Giannini, Gabriel M.  
 Autogiro Company of America, assignee: *See—*  
   Campbell, Harris S.  
   De la Cierva, Juan.  
   Huber, John R.  
   Stanley, Paul H.  
   Synnesvedt, Kenneth P.



- Autographic Register Company, assignee: *See—*  
Antrim, Louis C., and Schultz.  
Johnson, Arthur A.
- Automatic Control Corporation, assignee: *See—*  
Bower, George D.
- Automatic Devices Corporation, assignee: *See—*  
Johnson, Arthur A.
- Automatic Devices, Inc., assignee: *See—*  
West, Vern W.
- Automatic Electric Laboratories, assignee: *See—*  
Herrick, Roswell H.
- Automatic Electric Laboratories, Inc.: *See—*  
Faulkner, Alfred H.  
Herrick, Roswell H.  
Johnson, Vincent A., and Wood.  
Wood, Frederic E.
- Automatic Electric Laboratories, Inc., assignee: *See—*  
Baker, George T.  
Burgener, Karl L.  
Candy, Charles M.  
Dimmer, Robert P.  
Evers, Harry G.  
Ffolliott, Charles F.  
Fowler, Ralph R.  
Ghornley, Roger K.  
Giannini, Gabriel M.  
Gillings, Charles, and Beale.  
Gillings, Charles, and Murray.  
Graybill, Kenneth W.  
Hadfield, Bertram M.  
Herrick, Roswell H.  
Jones, Cyril E. P., and Birss.  
Kessler, Frank, and McCreary.  
McClew, John W., and Pearce.  
McCreary, Harold J.  
Obergfell, Herbert F.  
Ostline, John E.  
Parker, Leslie K.  
Peterson, Edward S.  
Riebe, Theodore C.  
Smith, Arthur B.  
Taylor, Reginald, and Baker.  
Voss, John H.  
Wicks, John.  
Wood, Fredric E.
- Automatic Holding Company, Societe Anonyme, assignee: *See—*  
Genova, Alberto F.
- Automatic Laboratories, Inc., assignee: *See—*  
Bakker, Pier.  
Giannini, Gabriel M.
- Automatic Locking Devices, Inc., assignee: *See—*  
Spraragen, Louis.
- Automatic Locking Devices, Incorporated, assignee: *See—*  
Spraragen, Louis.
- Automatic Manufacturing Corporation, assignee: *See—*  
Ketcham, Lyman G.
- Automatic Products Company, assignee: *See—*  
Johnson, Roy W., McCarty, and Pawelsky.
- Automatic Signal Corporation, assignee: *See—*  
Paul, Joseph N.
- Automatic Temperature Control Co., Inc., assignee: *See—*  
Hunt, Walter L.
- Automatic Voting Machine Corporation, assignee: *See—*  
Gustavson, Alvin H.
- Automotive Products Company Limited, assignee: *See—*  
Brock, William H. J.
- Autophon Aktiengesellschaft, assignee: *See—*  
Tschumi, Otto.
- Autopont Company, assignee: *See—*  
Bauer, Hans A.  
Bauer, Hans A., Deli, and Krajniak.  
Bauer, Hans A., Woods, and Beckstrom.
- Auto Wrecking Company Limited, assignee: *See—*  
Schaeffer, Joseph A.
- Autoyre Company, Incorporated, assignee: *See—*  
Rompre, Gerard J.
- Autoyre Company, Incorporated, The, assignee: *See—*  
Sanford, Roy S., and Murphy.
- Autoyre Company, The, assignee: *See—*  
Ryan, Lester R.
- Auwärter, Max, Hanau-on-the-Main, Germany; vested in the Attorney General of the United States. Production of metallic surface layers. 2,422,609; June 17.
- Auxier, Robert W., J. J. Wachter, and A. Schuman, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Bag molding. 2,416,137; Feb. 18.
- Auzin, John M., Warwick, R. I., assignor to Davol Rubber Company. Method and apparatus for the manufacture of dipped rubber goods. 2,428,406; Oct. 7.
- Auzin, John M., Warwick, R. I., assignor to Davol Rubber Company. Method and apparatus for manufacture of balloons for inflatable catheters. 2,428,407; Oct. 7.
- Avakian, Souren, Oreland, assignor to The National Drug Company, Philadelphia, Pa. N-pyrryl alkanol esters of benzoic acids. 2,430,268; Nov. 4.
- Avco Manufacturing Corporation, assignee: *See—*  
Davis, Dwillard J.  
Lampton, Glen T., and Woolf.  
Vutz, Wilhelm.
- Avco, Incorporated, assignee: *See—*  
Kellogg, William D.  
Kellogg, William D., and Eshleman.
- Avery, Clarence W., assignor to The Murray Corporation of America, Detroit, Mich. Stove construction. 2,418,152; Apr. 1.
- Avery, Harold T., Oakland, Calif. Amphibian supporting and propelling structure for aircraft and the like. 2,429,975; Nov. 4.
- Avery, Harold T., Oakland, Calif., assignor to Marchant Calculating Machine Company. Actuating mechanism for registers. 2,416,369; Feb. 25.
- Avery, Harold T., Oakland, Calif., assignor to Marchant Calculating Machine Company. Selective normalizing mechanisms for calculating machines. 2,416,809; Mar. 4.
- Avery, Harold T., Oakland, Calif., assignor to Marchant Calculating Machine Company. Carriage shifting mechanism. 2,421,111; May 27.
- Avery, Ray S., assignor to Adhesive Development Co., Los Angeles, Calif. Self-threading dispenser. 2,419,809; Apr. 29.
- Avery, Robert C., Jackson Heights, N. Y., assignor to American Telephone and Telegraph Company. Telephone routing system. 2,421,919; June 10.
- Aves, Fred J., Beverly Hills, assignor to V. A. Marco, Los Angeles, Calif. Light shutter and dimmer. 2,424,575; July 29.
- Avial, Juan B., assignee: *See—*  
Perez, Jose U.
- Aviation Corporation, The, assignee: *See—*  
Davidson, Herman A.  
Dittmar, William R.
- Aviation Equipment Corp., assignee: *See—*  
Gausch, Kenneth F.
- Avril, Arthur C., Cincinnati, Ohio. Hand truck. 2,432,368; Dec. 9.
- Axe, William H.: *See—*  
Schulze, Walter A., and Axe.
- Axe, William N.: *See—*  
Schulze, Walter A., and Axe.
- Axe, William N., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treatment of hydrocarbons with boron fluoride hydrate. 2,416,465; Feb. 25.
- Axe, William N., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of alkenyl aromatics. 2,430,660; Nov. 11.
- Axe, William N., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of alkenyl aromatic compounds. 2,430,661; Nov. 11.
- Ayers, Harry D., Philadelphia, Pa., assignor to Continental Can Company, Inc., New York, N. Y. Position retaining mechanism for filling valves. 2,426,809; Sept. 2.
- Ayers, Harry D., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Can filling machine. 2,429,154; Oct. 14.
- Aydt, Arthur E., St. Louis, Mo. Air circulator and purifier. 2,431,724; Dec. 2.
- Ayers, Alvin N., Asheville, N. C., and L. E. Hamilton, Sr., Atlanta, Ga.; said Ayers assignor to said Hamilton. Picker stick strap lug. 2,424,427; July 22.
- Ayers, Fred L., Waltham, Mass. Slip lasting last. 2,426,810; Sept. 2.
- Ayers, Fred L., Waltham, Mass. Shoe and making the same. 2,427,179; Sept. 9.
- Ayers, Fred L., Waltham, Mass., assignor of twenty-two one-hundredths to C. G. Keferstein, New York, N. Y. Innersole and making the same. 2,419,871; Apr. 29.
- Ayers, Fred L., Waltham, Mass., assignor of twenty-two one-hundredths to C. G. Keferstein, New York, N. Y. Innersole and making the same. 2,424,428; July 22.
- Ayers, George W.: *See—*  
Bond, Donald C., and Ayers.
- Ayers, George W., assignor to The Pure Oil Company, Chicago, Ill. Increasing octane number of motor fuel. 2,418,391; Apr. 1.
- Ayers, George W., assignor to The Pure Oil Company, Chicago, Ill. Sweetening hydrocarbon oils. 2,420,218; May 6.
- Ayers, George W., Chicago, D. M. Barton, Elmwood Park, and E. E. Harton, Evanston, assignors to The Pure Oil Company, Chicago, Ill. Removal of sulfur compounds from hydrocarbon oils. 2,417,041; Mar. 11.
- Ayers, George W., Chicago, and E. E. Harton, Jr., Evanston, assignors to The Pure Oil Company, Chicago, Ill. Determining iso-paraffins in hydrocarbon mixtures. 2,418,814; Apr. 15.
- Ayers, George W., Chicago, E. E. Harton, Evanston, and L. M. Henderson, Winnetka, assignors to The Pure Oil Company, Chicago, Ill. Preparation of isoparaffins and reactivation of the catalyst used therein. 2,421,674; June 3.
- Ayers, George W., Jr.: *See—*  
Henderson, Lawrence M., and Ayers.
- Ayers, Joseph W., Easton, Pa., assignor to Phillips Petroleum Company, Bartlesville, Okla. Manufacture of amorphous carbon. Re. 22,886; June 3.
- Ayers, Joseph W., Easton, Pa., assignor to C. K. Williams & Co. Producing iron oxide for pigment purposes. 2,416,138; Feb. 18.



- Ayers, Joseph W., Easton, Pa., assignor to Phillips Petroleum Company, Bartlesville, Okla. Apparatus for the manufacture of amorphous carbon. 2,420,999; May 27.
- Ayers, Maurice D., Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation. Multiple loop control. 2,422,651; June 24.
- Ayerst, McKenna & Harrison, Limited, assignee: *See*—Cook, Arthur S., and Grant.
- Ayotte, Joseph R., Chicago, Ill. Pocket pyrophoric lighter. 2,430,323; Nov. 4.
- Ayres, Donald F.: *See*—Scott, Walter A., and Ayres.
- Ayres, Donald F., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Electrically heated rotatable liquid container. 2,429,662; Oct. 28.
- Ayres, Jay J., Haddonfield, N. J., assignor to Radio Corporation of America. Transmission line switch. 2,427,940; Sept. 23.
- Ayres, John L.: *See*—Laughlin, Edwin R., Ayres, and Mitchell.
- Ayres, Waldemar A., Kew Gardens Hills, assignor to International Business Machines Corporation, New York, N. Y. Record feeding device. 2,424,073; July 15.
- Ayres, Waldemar A., Kew Gardens Hills, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Stereoscopic range indication. 2,426,979; Sept. 9.
- Ayres, Waldemar A., Kew Gardens Hills, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Radio wave reflectivity indicating system. 2,428,351; Oct. 7.
- Ayres, Waldemar A., Kew Gardens Hills, assignor to International Business Machines Corporation, New York, N. Y. Record card. 2,431,017; Nov. 18.
- Ayres, Waldemar A., Flushing, assignor to International Business Machines Corporation, New York, N. Y. Stenographic machine. 2,428,605; Oct. 7.
- B. B. Chemical Co., assignee: *See*—Paulsen, Hans C.
- B M C Manufacturing Corporation, assignee: *See*—Snell, Francis A.
- Ward, Vincent S., and Hurlbut.
- B-R Engineering Company, assignee: *See*—Estill, Edwin V., and Earle.
- B. & R. Patents Limited, assignee: *See*—Birch, George C. R.
- B. V. D. Corporation, The, assignee: *See*—Lowe, John F.
- B/W Controller Corporation, assignee: *See*—Bender, Otto E.
- Baade, Henry, assignor to Bendix Aviation Corporation, South Bend, Ind. Transmission operating mechanism. 2,426,722; Sept. 2.
- Baak, Albert E., Los Angeles, Calif., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus. 2,428,606; Oct. 7.
- Baak, Albert E., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Differential pressure switch. 2,431,674; Dec. 2.
- Baars, Ernst S. H., assignor to The Vilter Manufacturing Co., Milwaukee, Wis. Distributor for refrigeration systems. 2,425,452; Aug. 12.
- Babbini, Francisco E., Lima, Peru. Insecticides. 2,423,284; July 1.
- Babbitt, John F., and E. A. Roop, assignors to J. V. Pilcher Mfg. Company, Incorporated, Louisville, Ky. Manufacture of metallic rings. 2,428,540; Oct. 7.
- Babcock, Albert L., Newark, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Tensile strength testing apparatus. 2,421,002; May 27.
- Babcock, Gordon M., Louisville, Ky., assignor to Reynolds Metals Company, New York, N. Y. Making metallic pigments. 2,432,465; Dec. 9.
- Babcock, Jesse H., and A. D. Kischitz, assignors to Hooker Electrochemical Company, Niagara Falls, N. Y. Production of alkali metal trifluoroacetate. 2,414,706; Jan. 21.
- Babcock & Wilcox Company, The, assignee: *See*—Andrew, James D., Jr.
- Bailey, Ervin G.
- Bailey, Ervin G., and Dickey.
- Bayer, Clyde B.
- Boland, Edward L.
- Carpenter, Otis R., and Kerr.
- Coykendall, Leon H., and Rowand.
- Fletcher, James.
- Grossman, Paul R.
- Harvey, James L.
- Iager, Raymond F., and Hamilton.
- Kerr, Howard J.
- Smith, Charles S., and Rowand.
- Toomey, Thomas C., and Brandt.
- Wilcoxson, Leslie S.
- Zoller, Ronald E.
- Babcock & Wilcox Company, The, et al., assignee: *See*—Rowland, Will H., Schueler, and Loughlin.
- Babe, Albert, Chicago, Ill. Toothbrush. 2,431,861; Dec. 2.
- Babiczy, George, Chicago, Ill. Device for separating printing rollers in the absence of paper sheet. 2,432,133; Dec. 9.
- Babson Bros. Co., assignee: *See*—Babson, Henry B.
- Thomas, Chester A.
- Babson, Henry B., Chicago, Ill., assignor to Babson Bros. Co. Milking timer system. 2,416,139; Feb. 18.
- Babson, Henry B., Chicago, and C. A. Thomas, Crystal Lake, Ill., assignors, by mesne assignments, to Losee Products Co. Water heater. Re. 22,866; Apr. 15.
- Babson, Robert: *See*—Ladenburg, Kurt, Babson, and Tishler.
- Baby-Fix, Société Anonyme, assignee: *See*—Veyt, Raymond P. L.
- Bach, Charles G.: *See*—Vilter, Ernest F., Michener, Kraatz, Ruess, and Bach.
- Bach, Henry M., Lawrence, assignor to Premier Crystal Laboratories, Inc., New York, N. Y. Piezoelectric device and manufacture. 2,423,061; June 24.
- Bach, Loyal M., Burbank, Calif., assignor, by mesne assignments, to Lockheed Aircraft Corporation. Combined drop tank and demolition bomb. 2,417,342; Mar. 11.
- Bach, Robert G., Griffithstown, England, and J. R. Paton, Lisvane, Wales. Rotary and vertically movable drum for can sealing machines. 2,418,328; Apr. 1.
- Bach, William, assignee, et al.: *See*—Timoney, Andrew J.
- Bachman, Benjamin B., Philadelphia, and D. J. Macklin, St. Davids, assignors to The Autocar Company, Ardmore, Pa. Synchronizing clutch mechanism. 2,429,789; Oct. 28.
- Bachman, Benjamin B., Philadelphia, and Charles E. Fogg, assignors to The Autocar Company, Ardmore, Pa. Gear shifting mechanism. 2,432,712; Dec. 16.
- Bachman, Charles H., Scotia, N. Y., assignor to General Electric Company. Electron lens structure. 2,420,514; May 13.
- Bachman, Charles H., Scotia, N. Y., assignor to General Electric Company. Electron microscope structure. 2,420,561; May 13.
- Bachman, Charles H., Scotia, N. Y., assignor to General Electric Company. Electron lens assembly. 2,421,234; May 27.
- Bachman, Charles H., Scotia, N. Y., assignor to General Electric Company. Electron microscope. 2,422,943; June 24.
- Bachman, Charles H., Scotia, and S. Ramo, Schenectady, N. Y., assignors to General Electric Company. Electron microscope. 2,424,788; July 29.
- Bachman, Charles H., Scotia, and S. Ramo, Schenectady, N. Y., assignors to General Electric Company. Electron microscope. 2,424,789; July 29.
- Bachman, Charles H., Scotia, and S. Ramo, Schenectady, N. Y., assignors to General Electric Company. Electron microscope. 2,424,790; July 29.
- Bachman, Charles H., Scotia, and S. Ramo, Niskayuna, N. Y., assignors to General Electric Company. Electron microscope apparatus. 2,424,791; July 29.
- Bachman, Charles H., Scotia, and V. J. Schaefer, Schenectady, N. Y., assignors to General Electric Company. Production of fluorescent coatings. 2,421,979; June 10.
- Bachman, Fred E.: *See*—Lehrman, Leo A., and Bachman.
- Bachman, Fred E., assignor to American Steel Foundries, Chicago, Ill. Slack adjuster for railway brake rigging. 2,425,979; Aug. 19.
- Bachman, Fred E., and L. Gothberg, assignors to American Steel Foundries, Chicago, Ill. Aircraft landing gear. 2,431,302; Nov. 25.
- Bachman, Joseph L.: *See*—Karp, Charles D., and Bachman.
- Bachman, Oscar L., assignor to American Bosch Corporation, Springfield, Mass. High tension magneto. 2,420,407; May 13.
- Bachman, William S., Southport, Conn., assignor to General Electric Company. Vibration translating device. 2,415,403; Feb. 11.
- Backman, Ove E., Tammerfors, Finland. Making adhesive film. 2,433,680; Dec. 30.
- Backoff, William J.: *See*—Williams, Norman D., and Backoff.
- Bäckström, Sigurd M., and P. M. Köhler, assignors to Aktiebolaget Elektrolux, Stockholm, Sweden. Distributing liquid refrigerant in absorption refrigeration systems. 2,426,811; Sept. 2.
- Backus, Earl R., Glassport, Pa., assignor to Carnegie-Illinois Steel Corporation. Uncoiler. 2,427,248; Sept. 9.
- Bacon, Alfons R.: *See*—Berkman, Boris, Bacon, and Weber.
- Bacon, Chester R., Los Angeles, Calif. Combination fluid drive and automatic torque multiplier. 2,421,675; June 3.
- Bacon, Frederick E.: *See*—Kroll, William J., and Bacon.
- Bacon, Henry S., West Roxbury, Mass. Parachute decelerator. 2,414,284; Jan. 14.
- Bacon, Jack C., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparing fluoroacetamide. 2,416,607; Feb. 25.
- Bacon, John A.: *See*—Melaven, Arthur D., and Bacon.
- Bacon, Laurence Guy, Torquay, England. Transmission for steam or internal combustion engines. 2,420,581; May 13.



- Bacon, Leslie R.: *See*—  
Wegst, Walter F., Bacon, and Vaughn.  
Wegst, Walter F., Bacon, Vaughn, and Crawford.
- Bacon, Leslie R., assignor, by mesne assignments, to Wyandotte Chemicals Corporation, Wyandotte, Mich. Laundry souring composition. 2,422,066; June 10.
- Bacon, Osborne C.: *See*—  
Shipp, Joseph H., Bacon, and Pedersen.
- Bacon, Thomas P., Jr., Oakland, Calif. Applying new tread material to tires. 2,422,652; June 24.
- Baden, William, Chicago, Ill. Flow regulator. 2,423,633; July 8.
- Badenhausen, John P., Philadelphia, Pa. Steam generator. 2,414,848; Jan. 28.
- Bader, Bernard, Seattle, Wash. Depositing dough and apparatus therefor. 2,429,042; Oct. 14.
- Badgett, Charles O.: *See*—  
Woodward, Charles F., Badgett, and Haines.
- Badham, William T., Birmingham, Ala. Subliming chamber. 2,417,900; Mar. 25.
- Badmaieff, Alexis, Indianapolis, Ind., assignor to Radio Corporation of America. Electrooptical feedback system. 2,414,686; Jan. 21.
- Badmaieff, Alexis, Los Angeles, Calif., assignor to Radio Corporation of America. Noise reduction amplifier circuit for sound recording systems. 2,419,001; Apr. 15.
- Badmaieff, Alexis, Los Angeles, Calif., assignor to Radio Corporation of America. Frequency modulation feedback circuits for sound recording galvanometers. 2,423,285; July 1.
- Baehren, Fritz: *See*—  
Nelles, Johannes, Bayer, Tischbein, and Baehren.
- Baer, John M., Chicago, Ill., assignor to The Guardite Corporation. Quick freezing of foods. 2,425,714; Aug. 19.
- Baer, John M., and A. H. Heineman, assignors to The Guardite Corporation, Chicago, Ill. Airplane body. 2,420,292; May 13.
- Baer, Josef, Washington County, assignor to Electric Steel Foundry, Portland, Ore. Excavating tooth. 2,427,651; Sept. 23.
- Baerwalde, Emil, Cleveland, Ohio. Adjusting means for lathe attachments. 2,425,780; Aug. 19.
- Bagg, Earle W.: *See*—  
Honart, Jack C., and Bagg.
- Baggett, Edmund W., Brooklyn, assignor to Ideal Novelty & Toy Co., Long Island City, N. Y. Raking device. 2,416,426; Feb. 25.
- Bagley, Michael T., assignor to Philco Corporation, Philadelphia, Pa. Mathematical squaring device of the electron tube type. 2,428,541; Oct. 7.
- Bagley, William H., Jr., assignor of one-half to Progressive Welder Company, Detroit, Mich. Method of and apparatus for molding plastic material. 2,422,999; June 24.
- Bagnall, Vernon B., Arlington, Va., assignor to American Telephone and Telegraph Company. Directional radio system. 2,432,134; Dec. 9.
- Bagnulo, Albert, Rome, Italy; vested in the Attorney General of the United States. Engine with stratified mixture. 2,422,610; June 17.
- Bagsar, Aaron B., Drexel Hill, assignor to Sun Oil Company, Philadelphia, Pa. Valve construction. 2,417,901; Mar. 25.
- Bahler, Paul F.: *See*—  
Lawler, Matthew M., and Bahler.
- Bahner, Carl T., Jefferson City, Tenn. Aliphatic nitro derivatives of keto-esters and preparing them. 2,425,276; Aug. 5.
- Bahner, Carl T., Jefferson City, Tenn. Aliphatic nitro derivatives of cyanoacetic esters and preparing them. 2,426,158; Aug. 26.
- Bahner, Carl T., Jefferson City, Tenn. Nitroolefine derivatives of malonic esters and preparing same. 2,431,451; Nov. 25.
- Baia, Philip, Highland Park, Mich. Transition attachment for motion-picture cameras. 2,422,815; June 24.
- Baia, Philip, Highland Park, Mich. Inspection projector for motion-picture film. 2,422,816; June 24.
- Baier, Willard E., Ontario, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Recovery of naringin. 2,421,063; May 27.
- Bailey, Carl A., Scotia, N. Y., assignor to General Electric Company. Wire coating die. 2,433,642; Dec. 30.
- Bailey, Elga A., Butler, Pa. Form for molding grave markers and the like in situ. 2,421,535; June 3.
- Bailey, Ervin G., Easton, Pa., assignor to The Babcock & Wilcox Company, Rockleigh, N. J. Attenuator. 2,416,674; Mar. 4.
- Bailey, Ervin G., Easton, Pa., assignor to The Babcock & Wilcox Company, Rockleigh, N. J. Vapor generator. 2,429,976; Nov. 4.
- Bailey, Ervin G., Easton, Pa., and P. S. Dickey, East Cleveland, Ohio, assignors, by mesne assignments, to The Babcock & Wilcox Company, New York, N. Y. Control system. 2,417,049; Mar. 11.
- Bailey, Francis M., Scotia, N. Y., assignor to General Electric Company. Frequency converting means. 2,416,080; Feb. 18.
- Bailey, Francis M., Scotia, N. Y., assignor to General Electric Company. Ultra high frequency device of the cavity resonator type. 2,421,591; June 3.
- Bailey, Francis T., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Reverse current circuit protection. 2,424,298; July 22.
- Bailey, Howard: *See*—  
Rush, George C., and Bailey.
- Bailey, James, West Hartford, assignor to Plax Corporation, Hartford, Conn. Making rigid integral shapes of oriented polymer. 2,429,340; Oct. 21.
- Bailey Meter Company, assignee: *See*—  
Hornfeck, Anthony J.  
Johnson, Clarence.  
Woolley, R. E.
- Bailey, Robert S., Kirkwood, Mo. Material handling bin structure. 2,430,203; Nov. 4.
- Bailey, Theodore, Habana, Cuba. Flour sifter. 2,416,810; Mar. 4.
- Bailey, Theodore, Habana, Cuba. Device for measuring and dispensing granular and pulverulent materials. 2,416,811; Mar. 4.
- Bailey, Theodore, Habana, Cuba. Baby's milk bottle and holder. 2,416,812; Mar. 4.
- Bailey, Theodore, Habana, Cuba. Container-supporting rack for kitchen cabinets and the like. 2,432,494; Dec. 16.
- Bailey, William B., assignee: *See*—  
D'Avaucourt, Pierre de Vitry.
- Bailey, William J. A., Packanack Lake, N. J., and H. A. Panissidi, Jamaica, assignors to International Business Machines Corporation, New York, N. Y. Sound detection system and apparatus. 2,431,018; Nov. 18.
- Bailey, William M., Pittsburgh, Pa. Blast furnace stove checker. 2,432,646; Dec. 16.
- Bailey, William R., U. S. Navy, Washington, D. C. Flexometer testing device. 2,426,583; Sept. 2.
- Baillie, Douglas J., Montreal, Quebec, Canada. Car roof. 2,431,533; Nov. 25.
- Baillie, Granville H., London, assignor to Pilkington Brothers Limited, Liverpool, England. Apparatus for simultaneously polishing both faces of a travelling strip of glass. 2,419,927; Apr. 29.
- Baillio, Gervais: *See*—  
Blume, Paul W., Thomas, and Baillio.
- Bain, Clarence J., and L. R. Carl, Dover, N. J. Compound detonators. 2,415,806; Feb. 18.
- Bain, James E.: *See*—  
Applett, Albert V. and Bain.
- Bain, Joseph P., Jacksonville, Fla., assignor, by mesne assignments, to The Glidden Company, Cleveland, Ohio. Compounds of the norpinane series. 2,427,343; Sept. 16.
- Bain, Joseph P., Jacksonville, Fla., assignor, by mesne assignments, to The Glidden Company, Cleveland, Ohio. Acid of the norpinane series. 2,427,344; Sept. 16.
- Bain, Joseph P., Jacksonville, Fla., assignor, by mesne assignments, to The Glidden Company, Cleveland, Ohio. Compounds of the norpinane series and method of making. 2,427,345; Sept. 16.
- Bain, Joseph P., and A. H. Best, Jacksonville, Fla., assignors to The Glidden Company, Cleveland, Ohio. Alkoxy menthene-7-carbinols and preparing same. 2,424,960; Aug. 5.
- Bain, Joseph P., and A. H. Best, Jacksonville, Fla., assignors, by mesne assignments, to The Glidden Company, Cleveland, Ohio. Treatment of menthadene-7-carbinols and product thereof. 2,428,352; Oct. 7.
- Bains, Thomas M., Jr., San Francisco, Calif. Game apparatus. 2,426,915; Sept. 2.
- Baird, Albert W., Cranford, N. J., assignor to The Linde Air Products Company. Welding apparatus. 2,432,495; Dec. 16.
- Baird Associate, Inc., assignee: *See*—  
Wollner, Herbert J.
- Baird, John L., deceased, London, England; K. E. Shelley, executor. Screen for television. 2,425,980; Aug. 19.
- Baird Machine Company, The, assignee: *See*—  
Bunnell, Earl C.
- Baird, William M., Chicago, Ill. Antifreeze gasket for refrigerated systems. 2,414,009; Jan. 7.
- Baird, William M., Chicago, Ill. Insulated closure for refrigerated lockers. 2,419,002; Apr. 15.
- Baird, William McK., Chicago, Ill. Drawer guiding means. 2,418,244; Apr. 1.
- Bak, Alfred, Irene, S. Dak. Heat indicator. 2,426,077; Aug. 19.
- Bakelite Corporation, assignee: *See*—  
Barthel, Rudolf.
- Baker, Abraham M., Providence, R. I. Tooth powder dispenser. 2,430,204; Nov. 4.
- Baker Axle Company, assignee: *See*—  
Baker, Erle K.
- Baker, Benjamin P.: *See*—  
Ludwig, Leon R., Webb, and Baker.  
Von Mehren, Oswald, and Baker.  
Van Sickle, Roswell C., Baker, and Hall.
- Baker, Benjamin P., Turtle Creek, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,431,222; Nov. 18.
- Baker, Benjamin P., Turtle Creek, and R. C. Dickinson, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Oil circuit breaker. 2,419,106; Apr. 15.



- Baker, Benjamin P., Turtle Creek, and H. J. Webb, Forest Hills, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Fluid pressure operated circuit breaker. 2,422,516; June 17.
- Baker, Bernard R.: *See*—  
Bernstein, Seymour, Baker, and Safir.  
Safir, Sidney R., Bernstein, and Baker.
- Baker, Bernard R., Nanuet, assignor to American Cyanamid Company, New York, N. Y. Substituted thienouracils and preparing same. 2,432,961; Dec. 16.
- Baker, Bernard R., Nanuet, S. R. Safir and S. Bernstein, Pearl River, assignors, by mesne assignments, to American Cyanamid Company, New York, N. Y. Alpha-halo, beta-oxy suberic acid and esters thereof. 2,428,955; Oct. 14.
- Baker Castor Oil Company, The, assignee: *See*—  
Geiges, Alexander J.
- Baker, Charles O.: *See*—  
Abrams, Armand J., Baker, Kuhn, and Sharp.
- Baker, Charles S., Corning, assignor to Ingersoll-Rand Company, New York, N. Y. Compressor system. 2,422,880; June 24.
- Baker & Company, Inc., assignee: *See*—  
Rosenblatt, Edgar F., and Pollen.
- Baker, Corwin W., Stoneham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for operating on shoes. 2,422,711; June 24.
- Baker, Corwin W., Stoneham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Welt hold-down. 2,428,061; Sept. 30.
- Baker, Corwin W., Stoneham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,431,362; Nov. 25.
- Baker, David B., Riverside, and C. R. Hagen, Chicago, Ill., assignors to International Harvester Company. Spindle moistening apparatus. 2,433,083; Dec. 23.
- Baker, Donald J., Los Angeles, Calif. Pickup head. 2,422,817; June 24.
- Baker, Erle K., Detroit, Mich., assignor to Baker Axle Company, Cleveland, Ohio. Pump. 2,429,384; Oct. 21.
- Baker, Erwin G., Indianapolis, Ind. Gas engine fuel induction means. 2,422,517; June 17.
- Baker, Eugene G.: *See*—  
Hill, Arthur M., Miller, and Baker.
- Baker, George T.: *See*—  
Taylor, R., and Baker.  
Taylor, Reginald, and Baker.
- Baker, George T., Liverpool, England, assignor, by mesne assignments, to Automatic Electric Laboratories, Inc., Chicago, Ill. Selector operating circuit for use in automatic telephone systems. 2,422,285; June 17.
- Baker, George T., Liverpool, England, assignor, by mesne assignments, to Automatic Electric Laboratories, Inc., Chicago, Ill. Multiexchange impulse repeating system. 2,429,911; Oct. 28.
- Baker, George T., Liverpool, England, assignor, by mesne assignments, to Automatic Electric Laboratories, Inc., Chicago, Ill. Two-motion cam controlled automatic telephone switch. 2,433,256; Dec. 23.
- Baker, Harold L., Clovis, Calif. Section mold. 2,420,766; May 20.
- Baker, Hayward R.: *See*—  
Zisman, William A., Baker, and Murphy.
- Baker, Herbert N., assignor to Syracuse Chilled Plow Co., Inc., Syracuse, N. Y. Plow bottom with detachable plow point. 2,424,136; July 15.
- Baker Importing Company, assignee: *See*—  
Heyman, Wilbert A.
- Baker, J. T., Chemical Company, assignee: *See*—  
Eisenberg, George M., and Metzendorf.
- Baker, John B., Jr., Canton, Ohio. Separable drill bit. 2,421,826; June 10.
- Baker, John H., and P. J. Schwarzhaupt, Schenectady, N. Y., assignors to General Electric Company. Electric switch. 2,418,005; Mar. 25.
- Baker, John R., Philadelphia, Pa., assignor to Baker Oil Tools, Inc., Vernon, Calif. Well cementing apparatus. 2,429,912; Oct. 28.
- Baker, Kenneth B.: *See*—  
Chandler, Edward M., Bossert, and Baker.
- Baker, Lena W., Fort Worth, Tex. Mailbox. 2,428,509; Oct. 7.
- Baker, Malvern S., Pontiac, assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich. Talk ring synchronizer device. 2,413,675; Jan. 7.
- Baker, Morton H., Brookline, and J. F. Blackburn, Cambridge, Mass., assignors, by mesne assignments, to United States of America, as represented by the Secretary of War. 2,421,178; May 27.
- Baker Oil Tools, Inc., assignee: *See*—  
Anderson, George M., and Kriegel.  
Baker, John R.
- Baker, Ora D., Tacoma, Wash. Protective unit for fluid lines. 2,418,743; Apr. 8.
- Baker, Paul E., Grosse Pointe Farms, Mich., assignor to The Budd Company, Philadelphia, Pa. Triple wheel. 2,416,862; Mar. 4.
- Baker Perkins Inc., assignee: *See*—  
Palmer, Austin R.
- Baker, Raymond, Sr., Brookline, Upper Darby, assignor to Horn & Hardart Baking Co., Philadelphia. Latch for vending machine doors. 2,414,350; Jan. 14.
- Baker, Rest R.: *See*—  
Harris, Walter R., and Baxer.
- Baker, Richard F.: *See*—  
Hillier, James, and Baker.
- Baker, Robert M.: *See*—  
Cassen, Benedict, and Baker.
- Baker, Thomas A., Logansport, Ind. Fluid flow responsive device. 2,421,003; May 27.
- Baker, Willard L., Ipswich, Mass., D. J. Campbell, Richmond Hill, and A. P. Good, Mamaroneck, N. Y.; said Campbell and said Good assignors to Sperry Gyroscope Company, Inc., and said Baker assignor to United Shoe Machinery Corporation, Flemington, N. J. Data smoothing and position predicting apparatus. 2,426,584; Sept. 2.
- Baker, William H., Boston, Mass. Race plate of looms. 2,417,285; Mar. 11.
- Baker, William O., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cellulose ester-polyester compositions and methods of preparing them. 2,423,823; July 15.
- Baker, Wilson C., Madison, Ind. Shirt sleeve restrainer. 2,420,162; May 6.
- Bakke, Hans A., Swampscott, Mass., assignor to General Electric Company. Magnetic snap-over drive for registers. 2,416,081; Feb. 18.
- Bakke, Hans A., Swampscott, Mass., assignor to General Electric Company. Circuit connector. 2,429,448; Oct. 21.
- Bakker, Pier, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc. Telephone system. Re. 22,943; Dec. 2.
- Bakker, Pier, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Multiexchange community automatic telephone system. 2,427,650; Sept. 23.
- Balassa, Ladislaus, Swarthmore, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating composition comprising a vehicle containing drying oil-modified alkyd or phenol-formaldehyde resin pigment, litharge and calcium hydrate. 2,424,730; July 29.
- Balcar, Frederick R., Stamford, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Production of 1,3-butylene glycol. 2,421,451; June 3.
- Balcrank, Incorporated, assignee: *See*—  
Clapp, Kenneth S.
- Bald, Warren L., Los Angeles, Calif. Key fastener. 2,429,913; Oct. 28.
- Baldwin, Alan: *See*—  
Warner, Arthur J., and Baldwin.
- Baldwin, Curtis C., Ottawa, Kans. Load carrying structure for tractors. 2,416,731; Mar. 4.
- Baldwin, Ernest W., assignor, by mesne assignments, to Baldwin-Ward Manufacturing Co., Inc., Ottawa, Kans. Cutter bar control. 2,420,219; May 6.
- Baldwin, Harry, Mamaroneck, N. Y. Link for slat shades. 2,419,107; Apr. 15.
- Baldwin, Joseph W., Worcester, assignor to Harrington & Richardson Arms Company. Line throwing gun kit. 2,420,347; May 13.
- Baldwin Locomotive Works, The, assignee: *See*—  
Buckingham, Francis S.  
De Forest, Alfred V.  
Emery, Albert H.  
Essl, Max.  
Lowy, Robert.  
MacGeorge, William D.  
Moore, John H.  
Porteus, John H.  
Ruge, Arthur C.  
Schaevitz, Herman.  
Sonntag, Alfred.  
Staples, Dana R., and Miller.
- Baldwin-Ward Manufacturing Co., Inc., assignee: *See*—  
Baldwin, Ernest W.
- Bales, James E., assignor to Lyon Metal Products, Incorporated, Aurora, Ill. Sheet metal storage cabinet. 2,424,217; July 22.
- Ball, Charles F.: *See*—  
Hair, Richard T., and Ball.
- Ball, Charles F., assignor to Joy Manufacturing Company, Franklin, Pa. Articulated shaft drive for the flexible conveyor of shuttle cars. 2,426,980; Sept. 9.
- Ball, Frederick S., Per G. Palmgren, and H. Styri, assignors to Skf Industries, Inc., Philadelphia, Pa. Journal structure. 2,426,963; Sept. 2.
- Ball, Joseph A., Los Angeles, assignor to M. McGraw, doing business as McGraw Colorgraph Company, Burbank, Calif. Adhesive temporary support. 2,422,387; June 17.
- Ball, Reginald D., Bradford, assignor to The English Electric Company Limited, London, England. Heteropolar inductor alternator. 2,431,223; Nov. 18.
- Ball, Thomas M., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Control apparatus. 2,424,137; July 15.
- Ball, Thomas M., Detroit, and W. E. Zierer, Franklin, assignors to Chrysler Corporation, Highland, Mich. Dual carburetor system. 2,415,860; Feb. 18.
- Ballagh, James C., Los Angeles, assignor, by mesne assignments, to Byron Jackson Co., Vernon, Calif. Support for drill pipe protectors. 2,429,341; Oct. 21.



- Ballamy, Leslie M., Caterham, and R. H. Sheepshanks, Eyke, Woodbridge, England. Suspension system for road vehicles and the like. 2,418,744; Apr. 8.
- Ballamy, Leslie M., Caterham, and R. H. Sheepshanks, Eyke, Woodbridge, England. Looper mechanism for sewing machines. 2,421,179; May 27.
- Ballard, Commodore H., Princeton, W. Va. Journal offer. 2,427,701; Sept. 23.
- Ballard, John H., assignor to Sealed Power Corporation, Muskegon, Mich. Piston and ring groove lining therefor. 2,415,984; Feb. 18.
- Ballard, L. O., assignee, et al.: *See*—  
Fees, John N.
- Ballard, Robert G., Saugus, Mass., assignor to General Electric Company. Telemetering system. 2,427,180; Sept. 9.
- Ballard, Seaver A.: *See*—  
Finch, Harry D., and Ballard.  
Geyer, Bradford P., and Ballard.  
Haury, Vernon E., and Ballard.  
William, Paul H., and Ballard.
- Ballard, Seaver A., Oakland, assignor to Shell Development Company, San Francisco, Calif. Preparation of polyallyl alcohol. 2,431,224; Nov. 18.
- Ballard, Seaver A., Oakland, and V. E. Haury, El Cerrito, assignors to Shell Development Company, San Francisco, Calif. Hydrolysis of acetone auto-condensation products. 2,419,051; Apr. 15.
- Balle, Gerhard, Frankfurt-on-the-Main, J. Rosenbach, Wiesbaden, and L. Orthner, Frankfurt-on-the-Main, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Quaternary ammonium salts and process of preparing them. 2,426,293; Aug. 26.
- Ballesen, Charles E., Arlington, and L. B. Hedge, Fairlington, Va. Recoil gearing. 2,429,598; Oct. 28.
- Ballenger, Eugene W., Brooklyn, N. Y. Trousers leg rain protector. 2,429,507; Oct. 21.
- Baller, Melvin D., Red Bank, N. J. Electrical connector. 2,415,404; Feb. 11.
- Ballinger, Karl, assignor to Sporting Specialties Company, Coloma, Mich. Trailer. Re. 22,914; Sept. 16.
- Ballou, B. A., & Co., Incorporated, assignee: *See*—  
Ballou, Frederick A., Jr.
- Ballou, Frederick A., Jr., Providence, R. I., assignor to B. A. Ballou & Co., Incorporated. Making solder filled jewelry findings. 2,425,299; Aug. 12.
- Balluff, Edwin J., Detroit, Mich., assignor to Eureka Williams Corporation. Handle lock for suction cleaners. 2,422,216; June 17.
- Balmar Corporation, The, assignee: *See*—  
Forker, Major T., Jr.
- Balmer, Donald F., assignor to The Soundsciber Corporation, New Haven, Conn. Humless electrodynamic pickup. 2,416,082; Feb. 18.
- Balogh, Roy O., assignor to The Weatherhead Company, Cleveland, Ohio. Compressor pressure control. 2,423,677; July 8.
- Balsbaugh, Jayson C.: *See*—  
Barnard, Kenneth H., Balsbaugh, and Blackwood.
- Balsiger, Harold E., Waynesboro, Pa., and J. A. Boller, Thurmont, Md., assignors to Landis Tool Company, Waynesboro, Pa. Grinding machine. 2,419,940; May 6.
- Baltzly, Richard: *See*—  
Buck, Johannes S., and Baltzly.
- Baluk, Waldemar, Norquay, Saskatchewan, Canada. Envelope. 2,417,050; Mar. 11.
- Bamberg, Paul E., assignor to Dempster Brothers, Incorporated, Knoxville, Tenn. Locking device. 2,424,429; July 22.
- Bamberger, Julien G., Milwaukee, Wis. Hydroplane. 2,422,818; June 24.
- Bancroft, Erwin P., Brooklyn, and J. L. Jatlow, assignors to Federal Telephone Corporation, New York, N. Y. Demodulator for carrier telegraph signals. 2,424,961; Aug. 5.
- Baney, Leo J., Philadelphia, Pa., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Isolation of pyrrole from pyridine homologues by azeotropic distillation with water. 2,425,220; Aug. 5.
- Banff, Peter S.: *See*—  
Gerrard, John M., and Banff.
- Bangert, Charles, Jr., Ballston Spa, N. Y., assignor to General Electric Company. Circuit breaker. 2,418,006; Mar. 25.
- Bangham, Donald H., London, J. G. Bennett, Kingston-on-Thames, R. L. Brown, Liverpool, W. Hirst, Kingston-on-Thames, M. Pirani, Kingston Hill, and R. F. Jennings, Richmond, assignors to C. D. Patents Limited, Fulham, London, England. Manufacture of molded articles from coal. 2,424,012; July 15.
- Banker, John R.: *See*—  
Christaldi, Peter S., and Banker.
- Banker, John R., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Feed-back circuits. 2,423,362; July 1.
- Banker, Oscar H., Evanston, assignor to New Products Corporation, Chicago, Ill. Change-speed transmission and control therefor. 2,417,051; Mar. 11.
- Banker, Oscar H., Evanston, assignor to New Products Corporation, Chicago, Ill. Marine reversing gear. 2,418,455; Apr. 8.
- Banker, Oscar H., Evanston, assignor to New Products Corporation, Chicago, Ill. Clutch. 2,427,346; Sept. 16.
- Banker, Oscar H., Evanston, assignor to New Products Corporation, Chicago, Ill. Automatic transmission apparatus and controls. 2,427,652; Sept. 23.
- Banker, Oscar H., Evanston, assignor to New Products Corporation, Chicago, Ill. Change-speed transmission. 2,427,653; Sept. 23.
- Banks, Richard B.: *See*—  
Cole, Harold E., McAllinden, and Banks.
- Bankson, Severin B., San Francisco, Calif. Necktie knot holder. 2,422,463; June 17.
- Banning, Thomas A., Jr., Chicago, Ill. Wing for airplanes and the like. 2,426,334; Aug. 26.
- Banning, Thomas A., Jr., Chicago, Ill. Side wall sampling apparatus. 2,426,335; Aug. 26.
- Bannow, Rudolph F., Easton, Conn. Adapter with swivel joint. Re. 22,929; Oct. 21.
- Bannulos, Hilario M., Mexico City, Mexico. Tens transfer mechanism. 2,416,891; Mar. 4.
- Bany, Herman, Lansdowne, and A. W. Bateman, Yeadon, Pa., assignors to General Electric Company. Power rectifier control system. 2,427,543; Sept. 16.
- Bar, Frank T., Summit, N. J., assignor to Standard Oil Development Company. Distillation of oil shale in fluidized condition with simultaneous combustion of spent shale. 2,432,135; Dec. 9.
- Barabino, Alfred, New York, N. Y. Turbo gas saver. 2,415,668; Feb. 11.
- Barach, Joseph H., Pittsburgh, Pa. Graduated receptacle for syringes. 2,432,605; Dec. 16.
- Barber-Colman Company, assignee: *See*—  
Barnard, Charles D., and Halvorsen.  
Sweger, Russell P.
- Barber, Frank G., Luzerne, Pa. Alternating current electric bell. 2,418,863; Apr. 15.
- Barber, Harry J., Gidea Park, and W. R. Wragg, Cockfosters, assignors to May & Baker Limited, Dagenham, England. 1,2,3,4-tetrahydro-6-alkoxy-8-(omega-dialkyl-amino-alkyl-amino)quinolines and their preparation. 2,417,726; Mar. 18.
- Barber, Harry J., Gidea Park, Romford, England, assignor to May & Baker Limited, Dagenham, England. Production of amidine salts. 2,425,221; Aug. 5.
- Barber, Harry J., Gidea Park, Romford, assignor to May & Baker Limited, Dagenham, England. Production of amidine salts. 2,425,222; Aug. 5.
- Barber, Harry J., Romford, assignor to May & Baker Limited, Dagenham, England. Production of amidine salts. 2,425,223; Aug. 5.
- Barber-Colman Company, assignee: *See*—  
Colman, Howard D.  
Cook, John F.
- Barbie, John S.: *See*—  
Murad, Bill B., and Barbie.
- Barbieri, Cesare, New York, N. Y., assignor to Dixie Cup Company, Chicago, Ill. Container. 2,416,813; Mar. 4.
- Barbieri, Cesare, New York, N. Y., assignor to Dixie Cup Company. Making paper cups. 2,426,159; Aug. 26.
- Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Picture frame and support. 2,416,976; Mar. 4.
- Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Molded bracelet. 2,422,518; June 17.
- Barbour, Carroll B.: *See*—  
McCormick, Darwin M., Barbour, and Griesinger.
- Barbour Welting Company, assignee: *See*—  
Vizard, William C.
- Barch, William E., Freeport, assignor to Standard Brands Incorporated, New York, N. Y. Production of tartaric acid. 2,417,230; Mar. 11.
- Barch, William E., Freeport, assignor to Standard Brands Incorporated, New York, N. Y. Purification of tartaric acid. 2,430,855; Nov. 18.
- Barclay, Robert E., assignor to Federal Electric Company, Inc., Chicago, Ill. Toaster. 2,414,081; Jan. 14.
- Barclay, Robert E., assignor to Federal Electric Company, Inc., Chicago, Ill. Heater unit for toasters. 2,414,082; Jan. 14.
- Barclay, Robert E., assignor to Vail Manufacturing Company, Chicago, Ill. Implement for driving staples. 2,432,853; Dec. 16.
- Barco, Allen: *See*—  
Anderson, Earl I., and Barco.
- Barcus, George L., Drexel Hill, and A. C. Boisseau, Lansdowne, Pa., assignors to General Electric Company. Electric circuit interrupter. 2,419,434; Apr. 22.
- Barcus, William H., Drexel Hill, assignor to Sun Oil Company, Philadelphia, Pa. Plural stage catalytic and thermal conversion of hydrocarbons. 2,430,096; Nov. 4.
- Bard, Elliott, and M. J. Kobitsky, Buenos Aires, Argentina, assignors to Hartford National Bank and Trust Company, Hartford, Conn. Balanced frequency discriminator. 2,425,981; Aug. 19.
- Bard, Francis N., assignee: *See*—  
Brettenstein, Victor W.
- Bard, Francis N., Highland Park, Ill. Revolving electrically conductive joint. 2,424,545; July 29.
- Bard-Parker Company, Inc., assignee: *See*—  
Arden, Thomas R.  
Luther, William A.



- Bardin, Georges, Tournus, Saone-et-Loire, France. Making containers. 2,433,806; Dec. 30.
- Bardons and Oliver, Inc., assignee: *See—* Kylin, Oskar and H. O.
- Kylin, Oskar and H. O., and Valentino.
- Bare, Paul O., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerization of chloroprene. 2,426,854; Sept. 2.
- Barényi, Bela: *See—* Wilfert, Karl, and Barényi.
- Barfels, Lester G., Grundy Center, Iowa. Drill press. 2,429,741; Oct. 28.
- Barfield, Albert S., Atlanta, Ga., assignor to C. D. Shreve, Washington, D. C. Automatic defrosting refrigeration system. 2,417,582; Mar. 18.
- Bargen, William J., Waukegan, Ill. Typewriter desk. 2,414,433; Jan. 21.
- Barger, John A., Des Moines, Iowa. Animal tagging device. 2,430,853; Nov. 18.
- Bargren, Richard W., Niles, Ill., assignor to D. L. Klein, Grand Rapids, Mich. Lathe dog. 2,418,864; Apr. 15.
- Bariffi, Herbert F., Hamden, Conn., assignor to General Electric Company. Liquid overflow control means for washing machines. 2,432,271; Dec. 9.
- Bariffi, Herbert F., Hamden, Conn., assignor to General Electric Company. Control mechanism for washing machines. 2,432,272; Dec. 9.
- Barish, Thomas, University Park, assignor to Engineering and Research Corporation, Riverdale, Md. Airplane wheel and brake. 2,417,854; Mar. 25.
- Barish, Thomas, University Park, assignor to Engineering and Research Corporation, Riverdale, Md. Disc brake. 2,417,855; Mar. 25.
- Barish, Thomas, Cheverly, assignor to Engineering and Research Corporation, Riverdale, Md. Disc brake. 2,417,856; Mar. 25.
- Barish, Thomas, Cheverly, assignor to Engineering and Research Corporation, Riverdale, Md. Disc brake. 2,417,857; Mar. 25.
- Barker, Altamont S.: *See—* Russell, Frank C., and Barker.
- Barker, Charles E., Essex, assignor to Sylvania Electric Products Inc., Salem, Mass. Fluorescent lighting fixture. 2,431,656; Nov. 25.
- Barker, Clifford H., Boston, Mass. Spanner wrench. 2,420,458; May 13.
- Barker, Eugene, assignor to The Jaeger Machine Company, Columbus, Ohio. Portable loading machine. 2,416,893; Mar. 4.
- Barker, Eugene, assignor to The Jaeger Machine Company, Columbus, Ohio. Spooling mechanism for cable winches. 2,424,380; July 22.
- Barker, Harry H.: *See—* Atkinson, William B., Hill, and Barker.
- Barker, Hermon T.: *See—* Miller, Harold F., Crowe, and Barker.
- Barker, Seth S., assignee: *See—* Jasper, Lenu.
- Barker, William M., Greece, assignor to General Railway Signal Company, Rochester, N. Y. Code communication system for railroads. 2,422,519; June 17.
- Barkinen, Kenneth W.: *See—* Drissner, Alfred E., and Barkinen.
- Barkl, John O., Washington, D. C. Dust receiver for mops. 2,431,452; Nov. 25.
- Barkstrom, Elmer E., Chicago, and E. J. Shaw, Western Springs, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Article handling apparatus. 2,421,920; June 10.
- Barlick, Michael, assignor to Products Development, Inc., Chicago, Ill. Generator or motor field structure. 2,429,180; Oct. 14.
- Barlow, William H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Cowl fastener. 2,419,108; Apr. 15.
- Barlow, William H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Moving composite metal coupling members. 2,423,432; July 8.
- Barmache, Michel, and G. E. Lederman, New York, N. Y. Flexible bracelet. 2,427,117; Sept. 9.
- Barna, James J., Belleville, N. J., assignor to Lazare Kaplan & Sons, Inc., New York, N. Y. Grinding or polishing machine. 2,431,907; Dec. 2.
- Barna, Stephen L., Detroit, Mich. Toothbrush holder. 2,418,615; Apr. 8.
- Barnard, Charles D., and M. C. Halvorsen, assignors to Barber-Colman Company, Rockford, Ill. Hob and hobbing. 2,414,790; Jan. 28.
- Barnard, Kenneth H., Andover, J. C. Balsbaugh, Newton, and M. J. Blackwood, Andover, assignors to Pacific Mills, Boston, Mass. Compound dielectric material and manufacturing the same. 2,416,892; Mar. 4.
- Barnard, Roy M., and A. Cooper, London, W. C. 2, England, assignors to International Standard Electric Corporation, New York, N. Y. Electric oscillation generator and amplifier. 2,417,805; Mar. 25.
- Barnes, Arthur, Waltham, and H. P. Husek, Allston, assignors to Polaroid Corporation, Cambridge, Mass. Forming iodine images. 2,423,473; July 8.
- Barnes, Carl E., Belvidere, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Process of polymerization. 2,425,666; Aug. 12.
- Barnes, Charles H., Washington, D. C. Fire extinguisher. 2,425,715; Aug. 19.
- Barnes, Charles H., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Firing mechanism for firearms. 2,425,412; Aug. 12.
- Barnes, Eugene L., and H. A. Brenner, Buffalo, N. Y. Applicator apparatus for refrigeration anaesthesia. 2,415,455; Feb. 11.
- Barnes, Frederick A., Cleveland Heights, Ohio. Quick detachable coupling. 2,419,702; Apr. 29.
- Barnes, George W., Jr.: *See—* Caldwell, John A., and Barnes.
- Barnes, Gladeon M., U. S. Army, Hastings, Mich. Tank. 2,413,685; Jan. 7.
- Barnes, James H., Dayton, Ohio. Profile generating mechanism. 2,423,286; July 1.
- Barnes, Joseph T., and W. A. Collins, Columbus, Ohio, assignors to Curtiss-Wright Corporation. Method of reproducing templates or patterns. 2,418,007; Mar. 25.
- Barnes, Kenneth H., Mishawaka, Ind., assignor to American Wheelabrator & Equipment Corporation. Treating surfaces of workpieces with abrasives. 2,429,742; Oct. 28.
- Barnes, Larry B.: *See—* Goldthwait, Charles F., Smith, and Barnes.
- Barnes, Marion D., New York, N. Y. Holder for test tubes. 2,429,305; Oct. 21.
- Barnes, Mary F., Honolulu, Hawaii. Knockdown toy house. 2,422,217; June 17.
- Barnes, Robert B.: *See—* Ham, Garnet P., and Barnes.
- Barnes, Robert B., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Multicomponent-gas analyzer. 2,431,019; Nov. 18.
- Barnes, Robert B., Stamford, and G. P. Ham, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Separation of iron from aluminum sulphate solutions. 2,416,508; Feb. 25.
- Barnes, Walter C., Lake Bluff, and H. W. Keevil, Evanston, Ill. Apparatus for detecting flaws in rails. 2,425,857; Aug. 19.
- Barnett, Charles A., and J. M. Beyvl, assignors to The Foundry Equipment Company, Cleveland, Ohio. Apparatus for drying foundry molds. 2,417,673; Mar. 18.
- Barnett, Katharine, assignee: *See—* Blomberg, Otto J.
- Barnett, Louis, Brooklyn, N. Y., assignor to Millie Patent Holding Co. Infusion package with handles and manufacturing same. 2,413,686; Jan. 7.
- Barnett, Louis, Brooklyn, assignor to L. Stern, New York, N. Y. Pocket key and coin purse. 2,416,732; Mar. 4.
- Barnett, Louis, Brooklyn, assignor to National Urn Bag Co., Inc., Long Island City, N. Y. Infusion package manufacture. 2,431,680; Dec. 2.
- Barnett, Louis S., Newark, N. J. Filter press. 2,418,153; Apr. 1.
- Barnett, Milton A., St. Louis, Mo. Three-speed bicycle gearshift. 2,431,982; Dec. 2.
- Barnett, Nathan, Chicago, Ill. Heel support. 2,414,707; Jan. 21.
- Barney, Harold L., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Stabilizing circuit for synchronous motors. 2,415,405; Feb. 11.
- Barnhart, Edgar W., assignor to The General Excavator Company, Marion, Ohio. Steering mechanism for portable hoists and excavators. 2,417,963; Mar. 25.
- Barnhart, Edgar W., assignor to The General Excavator Company, Marion, Ohio. Dual steering mechanism. 2,421,139; May 27.
- Barnhart, Paul F., Houston, Tex. Bottom hole gas anchor. 2,429,043; Oct. 14.
- Barnsteiner, Alfons, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Deep well cooker. 2,416,140; Feb. 18.
- Barnsteiner, Alfons, and E. H. Lockwood, Mansfield, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Heating apparatus. 2,414,163; Jan. 14.
- Barnum, Howard N., South Euclid, Ohio. Convertible article of furniture. 2,414,998; Jan. 28.
- Barr, Courtland H., Glenolden, Pa., assignor, by mesne assignments, to Essdee Patents, Inc. Sealing machine. 2,419,475; Apr. 22.
- Barr, Edgar R.: *See—* Billings, Bruce H., Hyde, and Barr.
- Howard, Toombs, and Barr.
- Barr, Frank T.: *See—* Gohr, Edwin J., Barr, and Roethell.
- Barr, John M., Meriden, assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn. Carburetor. 2,432,274; Dec. 9.
- Barr, Naaman F., and W. K. Schneider, assignors to Stoner-Mudge, Inc., Pittsburgh, Pa. Producing polysulfide rubber of low water permeability. 2,426,916; Sept. 2.
- Barr, Naaman F., and W. K. Schneider, assignors to Stoner-Mudge, Inc., Pittsburgh, Pa. Producing polysulfide rubber of low water permeability. 2,426,917; Sept. 2.
- Barr, Richard E., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Woodpecker drill. 2,424,138; July 15.



- Barr, Richard H. H., Normanton, assignor to Power Jets (Research and Development) Ltd., London, England. Combustion gas and waste heat steam turbine. 2,428,136; Sept. 30.
- Barr & Stroud, Limited, assignee: *See*—  
French, James W.  
Strang, John M.
- Barr, Walter A., Orange Tush, Ind., assignor to The Ross Carrier Company, Benton Harbor, Mich. Spring-suspension and steerable wheel assembly for straddle trucks. 2,415,928; Feb. 18.
- Barr, William B., Clifton, N. J. Ejector for core drills. 2,414,133; Jan. 14.
- Barr, William G., Chicago, Ill. Golfer's eyeshield. 2,433,590; Dec. 30.
- Barracks, William W., College Point, N. Y. Garden and lawn hand rake. 2,422,712; June 24.
- Barras, Herbert, Baldwin, La. Clutch controlling device. 2,420,767; May 20.
- Barrentine, Thomas A., Greenwood, Miss. Harrow with yielding bars. 2,429,013; Oct. 14.
- Barret, William M., assignor to Engineering Research Corporation, Shreveport, La. Electromagnetic-wave investigations of earth formations. 2,426,918; Sept. 2.
- Barrett, Ann K.: *See*—  
Barrett, Edward L.
- Barrett, Arthur M., Winnetka, assignor to Barrett-Cravens Company, Chicago, Ill. Lifting truck. 2,426,723; Sept. 2.
- Barrett, Charles D., Altoona, Pa. Steam locomotive boiler. 2,417,343; Mar. 11.
- Barrett, Charles D., and C. R. Whitehead, Altoona, Pa. Railway car truck. 2,417,674; Mar. 18.
- Barrett, Charles G., deceased, Alexandria, Va.: V. M. Barrett, administratrix, assignor to E. C. Magdeburger, Washington, D. C. Exhaust manifold for four-cycle internal-combustion engines. 2,423,574; July 8.
- Barrett, Charles G., deceased, Alexandria, Va.: V. M. Barrett, administratrix, assignor to E. C. Magdeburger, Washington, D. C. Manifold for engines. 2,427,115; Sept. 9.
- Barrett-Cravens Company, assignee: *See*—  
Barrett, Arthur M.
- Barrett, Daniel, Appeal, Md. Cooking and seasoning hard crabs. 2,420,063; May 6.
- Barrett, Edward L., assignor to E. L. and A. K. Barrett, copartners doing business as Barrett-Keenan Company, Oak Park, Ill. Wire type recording and reproducing apparatus. 2,428,002; Sept. 30.
- Barrett, Gerald R., Winchester, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Coating composition. 2,417,344; Mar. 11.
- Barrett, Harold G.: *See*—  
Reynolds, Milton, and Barrett.
- Barrett, Harry B., Ladue, Mo. Equipment for grinding brake-shoe lining sections. 2,421,180; May 27.
- Barrett, Howard J., Philadelphia, Pa. Janitor's truck. 2,424,644; July 29.
- Barrett-Keenan Company, assignee: *See*—  
Barrett, Edward L.
- Barrett, Otto T., and W. E. Pilliar, Salinas, Calif., assignors to O. T. Barrett and W. E. Pilliar, as trustees. Onion topping device. 2,414,922; Jan. 28.
- Barrett, Vera M., administratrix: *See*—  
Barrett, Charles G.
- Barrett, William H., and B. K. Asdell, International Falls, assignors to Minnesota and Ontario Paper Company, Minneapolis, Minn. Apparatus for coating paper. 2,416,789; Mar. 4.
- Barrick, Paul L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Heptafluoromono-chlorocyclobutane and making same. 2,427,116; Sept. 9.
- Barrie, Arthur J., and R. J. Dwyer, assignors to Acorn Designing Co., Toledo, Ohio. Metalworking machine for rolling grooves in cylinders without damaging longitudinal seams. 2,421,450; June 3.
- Barritz, Albert, Kew Gardens, assignor to Acme Shoulder Pad Co. Inc., New York, N. Y. Shoulder pad. 2,423,168; July 1.
- Barron-Gray Packing Company, assignee: *See*—  
Erickson, Arvid M., and Ryan.  
Gray, Herbert E., and Erickson.
- Barron, Joseph M., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Combined hydrogenation and dehydrogenation of hydrocarbons. 2,416,894; Mar. 4.
- Barrow, Wilmer L., Newton, Mass., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Instrument landing system. 2,414,791; Jan. 28.
- Barrow, Wilmer L., Newton, Mass., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Transmission line bridge circuit. 2,416,790; Mar. 4.
- Barrow, Wilmer L., Newton, Mass., assignor to Research Corporation, New York, N. Y. Electromagnetic horn. 2,425,716; Aug. 19.
- Barrow, Wilmer L., Concord, and W. M. Hall, Lexington, Mass., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Directive electromagnetic radiator. 2,415,807; Feb. 18.
- Barrows, Donald S., assignor to The Symington-Gould Corporation, Rochester, N. Y. Brake beam support. 2,429,576; Oct. 21.
- Barrows, Stephen S., Minneapolis, Minn. Magnifying attachment for measuring instruments and the like. 2,417,902; Mar. 25.
- Barrus, Paul B., assignor to R. A. Niekamp, doing business as American Aircraft Associates, Dayton, Ohio. Brush holder. 2,426,815; Sept. 2.
- Barry, Joseph W., Ogdensburg, N. Y. Public speaking criticism board. 2,430,205; Nov. 4.
- Barry, Richard J., New York, N. Y., and C. H. Lewis, Darien, assignors to W. E. Irving, Glenbrook, Conn. Continuous grating structure. 2,421,980; June 10.
- Barsom, Arthur, Jr., Los Angeles, Calif. Spindle. 2,430,598; Nov. 11.
- Barstad, Clarence O., Minneapolis, Minn. Electrical soldering iron. 2,416,370; Feb. 25.
- Barstow, Carl A., Anoka, Minn., assignor, by mesne assignments, to Argus, Incorporated, Ann Arbor, Mich. Movable tension shoe. 2,431,681; Dec. 2.
- Bart, Siegfried G., Essex Falls, N. J. Reflector and forming same. 2,425,022; Aug. 5.
- Barteck, Francis J., and N. M. Gibson, U. S. Navy. Threading bar. 2,415,077; Feb. 4.
- Bartelink, Everhard H. B., West Milton, N. Y., assignor to General Electric Company. Pulse signalling system. 2,416,895; Mar. 4.
- Bartelink, Everhard H. B., West Milton, N. Y., assignor to General Electric Company. Communication system. 2,419,193; Apr. 22.
- Bartelink, Everhard H. B., West Milton, N. Y., assignor to General Electric Company. Radio frequency transmitter monitoring system and method. 2,419,527; Apr. 29.
- Bartels, Arnold H., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Multivibrator. 2,417,286; Mar. 11.
- Bartelson, Sten E., Indianapolis, Ind., assignor to Radio Corporation of America. Motion-picture projector fire shutter. 2,431,908; Dec. 2.
- Bartgis Brothers Company, The, assignee: *See*—  
Palmer, William G.
- Barth, Edwin J.: *See*—  
Davis, Gifford D., and Barth.
- Barth, Elmer J.: *See*—  
Peterson, Carl D., and Barth.
- Barth, Robert H.: *See*—  
Burrell, Harry, Bowman, and Barth.
- Barth, Theodore H.: *See*—  
Norden, Carl L., and Barth.
- Barthel, Rudolf, Berlin-Karlshorst, Germany, assignor to Bakelite Corporation, New York, N. Y. Air drying mixed esters and preparing the same. 2,420,694; May 20.
- Barthel, William F.: *See*—  
La Forge, Frederick B., and Barthel.
- Bartho, John C., Flushing, assignor of one-third to J. Da Silva and one-third to A. Rolenberg, New York, N. Y. Diamond polishing disc supporting spindle. 2,416,141; Feb. 18.
- Bartho, John C., New York, assignor of one-half to J. Haranis, Astoria, Long Island, N. Y. Steering mechanism for automobiles. 2,432,369; Dec. 9.
- Bartholomew, Charles M.: *See*—  
Pool, John A., Bartholomew, and Johnson.
- Bartholomew, Orlo A., Atlantic City, N. J. Double-deck trolley coach. 2,430,324; Nov. 4.
- Bartholomew, Robert J.: *See*—  
Gunner, George W., and Bartholomew.
- Bartholomew, Robert L., Lexington, assignor to Raytheon Manufacturing Company, Newton, Mass. Coating apparatus. 2,432,081; Dec. 9.
- Bartholomew, Tracy, Pittsburgh, Pa. Method and apparatus for separating liquid from solids by rotatably mounted means. 2,422,464; June 17.
- Bartholomew, Wion L., Richmond, Va. Logging cart. 2,433,822; Dec. 30.
- Bartleson, John D., assignor to The Standard Oil Company, Cleveland, Ohio. Composition containing higher condensation products of aldehydes and aromatic amines. 2,432,713; Dec. 16.
- Bartlett, Benson G. W., Darlington, England. Power transmission gear. 2,419,703; Apr. 29.
- Bartlett, Benson G. W., assignor of one-half to Northern Patent Developments, Limited, Darlington, England. Floating annular toothed gearing. 2,414,134; Jan. 14.
- Bartlett Hayward Division: *See*—  
Landgraf, George F.
- Bartlett, James L., Jr.: *See*—  
Hagen, Harold F., and Bartlett.
- Bartlett, Luis H., assignor to Texas Research Corporation, Austin, Tex. Quick freezing of foodstuffs. 2,418,745; Apr. 8.
- Bartlett, Luis H., W. R. Woolrich, and H. E. Brown, assignors to Texas Research Corporation, Austin, Tex. Food freezing machine. 2,418,746; Apr. 8.
- Bartlett, Marjorie, assignee: *See*—  
Bartlett, Norman.
- Bartlett, Norman, assignor of one-half to M. Bartlett, North Tonawanda, N. Y. Amusement ride. 2,428,607; Oct. 7.
- Bartlett, Norman, assignor of one-half to M. Bartlett, North Tonawanda, N. Y. Amusement ride. 2,433,807; Dec. 30.



- Bartlett, Walter F., La Grange, and M. J. Grzenia, assignors to Karpen & Bros., Chicago, Ill. Seat back construction. 2,420,220; May 6.
- Bartley, Samuel H., Hanover, N. H. Instrument for measuring cutaneous sensitivity. 2,422,520; June 17.
- Barton, Benjamin D., assignor to American-Marsh Pumps, Inc., Battle Creek, Mich. Pressure governor control mechanism. 2,420,515; May 13.
- Barton, Daniel M.: *See—*  
Ayers, George W., Barton, and Harton.
- Barton, Joe B., Grand Prairie, Tex. Creeper. 2,430,662; Nov. 11.
- Barton, Louis E., Windsor, Conn. Making lead pigments. 2,419,246; Apr. 22.
- Bartsch, Cornelius, Van Nuys, Calif. Berry box carrier. 2,421,048; May 27.
- Bartusch, Alexander P., Lockport, N. Y. Bow compass. 2,422,286; June 17.
- Barwell, Allen C., Kennett Square, Pa., assignor to Hercules Powder Company, Wilmington, Del. Protein-resin bonded sheet abrasive. 2,419,194; Apr. 22.
- Barwick, Emerson C., Rugby, England, assignor to General Electric Company. Voltage regulator. 2,427,544; Sept. 16.
- Barz, Joseph, assignor to Star Sprinkler Corporation. Philadelphia, Pa. Nozzle. 2,428,748; Oct. 7.
- Baselt, Walter H., assignor to American Steel Foundries, Chicago, Ill. Pivoted member. 2,422,521; June 17.
- Baselt, Walter H., assignor to American Steel Foundries, Chicago, Ill. Brake beam. 2,427,893; Sept. 23.
- Basford, Frederick R., Manchester, H. Coates, Leeds, and I. M. Hellbron, and A. H. Cook, London, England, assignors to Imperial Chemical Industries Limited. Quinoline derivatives. 2,416,563; Feb. 25.
- Bashwiner, Charles, Great River, N. Y. Draperies and the like. 2,415,330; Feb. 4.
- Basic Refractories, Inc., assignee: *See—*  
Schoenlaub, Robert A.
- Basinger, Elmer A., Washington, D. C. Direct drive vacuum cleaner agitator roller. 2,421,235; May 27.
- Baskerville, Ralph J., Merwood Park, and R. R. Bush, Oakmont, Pa., assignors to General Electric Company. Combined fuse and circuit interrupting device. 2,427,181; Sept. 9.
- Bass, Shailer L., assignor to The Dow Chemical Company, Midland, Mich. Plastic dielectric composition and shielded spark plug terminal construction comprising same. 2,428,608; Oct. 7.
- Bass, Walter A., Brundidge, Ala. Bridle. 2,426,427; Aug. 26.
- Bassett, Appleton H., Bell, Calif. Beet toppler. 2,429,044; Oct. 14.
- Bassett, Charles H., Chicago, and E. P. De Craene, Westchester, assignors to Crane Co., Chicago, Ill. Hydraulic operator. 2,415,783; Feb. 11.
- Bassett, John A., Westchester, and A. S. Niemiec, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for cleaning and coating wire. 2,432,854; Dec. 16.
- Bassett, Linton T.: *See—*  
Harris, Carl C., and Bassett.
- Bassett, Rex E., Jr., Miami Beach, Fla., assignor, by mesne assignments, to American Machine and Metals, Inc., East Moline, Ill. Washing machine transmission. 2,426,078; Aug. 19.
- Bassford, Henry H., Jr., Cranford, N. J., assignor to U. S. Shellac Importers Association, Inc., New York, N. Y. Shellac coating compositions. 2,425,023; Aug. 5.
- Bassichis, William M., Cleveland Heights, assignor to Convenient Carrier Corporation, Cleveland, Ohio. Bottle carrier. 2,414,708; Jan. 21.
- Bassick Company, The, assignee: *See—*  
Claud-Mantle, Arthur.  
Herold, Walter F.
- Basta, Harry D.: *See—*  
Basta, Silveo A., Basta, and Spurr.
- Basta, Silveo A. and H. D., and G. C. Spurr, Detroit, Mich. Rowing device. 2,429,790; Oct. 28.
- Bastanchury, Gaston A., Pittman, Nev. Apparatus for automatically adjusting the angular plane of dry concentrating tables. 2,429,543; Oct. 21.
- Bastian-Blessing Company, The, assignee: *See—*  
Anderson, Olaf R.  
Dieterle, Edward A.  
Johnson, Herman K.  
Norway, Harold L.
- Bastick, Raymond E., and W. M. Hampton, assignors to Chance Brothers Limited, Smethwick, England. Optical glass. 2,431,983; Dec. 2.
- Batchelder, Howard R.: *See—*  
Hall, Edwin L., and Batchelder.
- Batchelder, James W., Alstead, N. H. Stud bolt. 2,421,181; May 27.
- Batchelder, James W., Alstead, N. H., assignor to Jones & Lamson Machine Company, Springfield, Vt. Thread rolling. 2,418,217; Apr. 1.
- Batcheller, Clements, Glens Falls, N. Y. Metal cladding by spraying. 2,414,923; Jan. 28.
- Batcheller, Hugh W., Newton, assignor to Standard Mfg. Co., Watertown, Mass. Multiple purpose electric switch. 2,418,616; Apr. 8.
- Batcheller, Hugh W., Newton, assignor to Standard Mfg. Co., Watertown, Mass. Electric snap switch. 2,432,647; Dec. 16.
- Batchelor, Clyde S., Bridgeport, Conn., assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Treating friction material. 2,426,294; Aug. 26.
- Bateman, Amos W.: *See—*  
Bany, Herman, and Bateman.
- Bateman, Loftus H., assignor to Arundel Coulthard & Company Limited, Stockport, England. Yarn winding machine. 2,419,003; Apr. 15.
- Bates, Charles H., Independence, assignor to Wilcox Electric Co., Kansas City, Mo. Collapsible wheelbarrow. 2,422,331; June 17.
- Bates, George F., assignor of one-half to The Mining Engineering Company Limited, Worcester, England. Fluid pressure operated vise. 2,417,625; Mar. 18.
- Bates, John R.: *See—*  
Prickett, Thomas B., and Bates.
- Bates, John R., Swarthmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Conversion of hydrocarbons with alkali metal-free catalyst comprising silica and amphoteric oxide. 2,429,981; Nov. 4.
- Bates, Roy W., Rockwood, Mich. Cam assembly for screw machines. 2,431,159; Nov. 18.
- Bates, Tillie, assignee, et al.: *See—*  
Long, Ralph M.
- Batesville Casket Company, The, assignee: *See—*  
Hillenbrand, George C.
- Battle, John, Detroit, Mich. Foldable golf bag transporting cart. 2,417,727; Mar. 18.
- Baton, Elaine, Chicago, Ill. Sewing frame. 2,417,149; Mar. 11.
- Batori, Oscar E., New York, N. Y. Slide rule. 2,415,231; Feb. 4.
- Batori, Oscar E., New York, N. Y. Slide rule. 2,429,212; Oct. 21.
- Batori, Oscar E., New York, N. Y. Slide rule. 2,430,599; Nov. 11.
- Battalline, John R., Hartford, Conn. Self adjusting gear or clutch disk. 2,416,083; Feb. 18.
- Battelle Development Corporation, The, assignee: *See—*  
Davis, James A.
- Battelle Memorial Institute, assignee: *See—*  
Faust, Charles L.  
Pavlish, Arnold E., and Austin.
- Batten, Percy H., assignee, et al.: *See—*  
Boestad, Gustav K. W.
- Battenfeld Grease & Oil Corp., assignee: *See—*  
Moots, Clark, and Hooker.
- Battilani, Stefano, New York, N. Y. Coffee percolator. 2,429,116; Oct. 14.
- Battin, Harold T., Ridgewood, N. J. Building structure. 2,414,628; Jan. 21.
- Baudry, René A., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Turbogenerator cooling. 2,427,702; Sept. 23.
- Baudry, René A., Wilkinsburg, and H. E. Criner, Forest Hills, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Generator. 2,424,299; July 22.
- Bauer, Benjamin B., Oak Park, assignor, by mesne assignments, to Shure Brothers, Incorporated, Chicago, Ill. Coil and support construction. 2,428,826; Oct. 14.
- Bauer, Charles A., Newburg, assignor to Hoosier Cardinal Corporation, Evansville, Ind. Ice-cube tray. 2,418,008; Mar. 25.
- Bauer, Ernest K., Meadville, Pa., assignor to American Viscose Corporation, Wilmington, Del. Cap spinning traveler. 2,423,678; July 8.
- Bauer, Frederick, Wausau, Wis. Bread pan greasing device. 2,431,725; Dec. 2.
- Bauer, Hans A., Prairie View, assignor to Autopoint Company, Chicago, Ill. Rear loading screw-feed mechanical pencil. 2,427,941; Sept. 23.
- Bauer, Hans A., Prairie View, F. C. Deli, and J. T. Krajniak, assignors to Autopoint Company, Chicago, Ill. Clip construction. 2,418,218; Apr. 1.
- Bauer, Hans A., Prairie View, F. D. Woods, Glencoe, and G. L. Beckstrom, assignors to Autopoint Company, Chicago, Ill. Fountain pen. 2,424,731; July 29.
- Bauer, Hans F., and E. F. Glabe, Chicago, Ill., assignors, by mesne assignments, to Stein, Hall & Co., Inc. Malt compositions. 2,415,070; Feb. 4.
- Bauer, Hans F., and E. F. Glabe, Chicago, Ill., assignors, by mesne assignments, to Stein, Hall & Co., Inc. Inhibition or retardation of the growth of micro-organisms in meat. 2,417,806; Mar. 25.
- Bauer, Irwin O., Cincinnati, Ohio. Golf club bag. 2,422,218; June 17.
- Bauer, Jordan V., Elmwood Park, and R. A. Selner, Chicago, Ill., assignors, by mesne assignments, to Stein, Hall & Co., Inc. Pregummed hanging material. 2,424,546; July 29.
- Bauer, L. Brunton, assignor to Hewlett-Packard Company, Palo Alto, Calif. Frequency divider. 2,418,568; Apr. 8.
- Bauer, Oscar W., and J. W. Teter, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y. 2,2,4-trichlorobutyramide. 2,429,791; Oct. 23.
- Bauer, Robert, Shoreham, N. Y. Electrical connection plug. 2,415,722; Feb. 11.
- Bauer, Walter C., Chevy Chase, assignor, by mesne assignments, to The Briggs Filtration Company, Bethesda, Md. Lubricating system. 2,430,097; Nov. 4.



- Bauerlein, Carl C., Glencoe, and W. F. Cramer, Jr., assignors to The Dole Valve Company, Chicago, Ill. Pressure operated mixed drink dispenser. 2,415,861; Feb. 18.
- Bauerlein, George, Sr., Talladega, Ala. Life net. 2,415,723; Feb. 11.
- Baughman, George W., assignor to The Union Switch & Signal Company, Swissvale, Pa. Remote control system. 2,431,631; Nov. 25.
- Baum, Arthur A.: *See*—  
Sturgis, Bernard M., and Baum.
- Baumann, Harold A.: *See*—  
Xenls, Constantine P., Pagano, and Bauman.
- Baumann, August, Brooklyn, N. Y. Beating wing aircraft. 2,418,569; Apr. 8.
- Baumann, Harry P., Milwaukee, Wis., assignor to Simonds Saw and Steel Company, Pittsburg, Mass. Saw. 2,415,271; Feb. 4.
- Baumann, Henry N., Jr., and R. C. Benner, assignors to The Carborundum Company, Niagara Falls, N. Y. Alumina solid solution. 2,418,496; Apr. 8.
- Baumann, Henry N., Jr., and R. C. Benner, assignors to The Carborundum Company, Niagara Falls, N. Y. Fused aluminum oxide abrasive material. 2,424,645; July 29.
- Baumann, Karl, Knutsford, assignor to Metropolitan-Vickers Electrical Company Limited, London, England. Internal combustion turbine plant. 2,418,801; Apr. 8.
- Baumann, Karl, Knutsford, assignor to Metropolitan-Vickers Electrical Company, Limited, London, England. Transmission gearing for power plants. 2,423,820; July 15.
- Baumann, Karl, Mere, Knutsford, assignor to Metropolitan-Vickers Electrical Company Limited, London, England. Gas conduit arrangement for internal-combustion turbine plants. 2,433,416; Dec. 30.
- Baumann, Walter, Aarau, Switzerland. Terminal for electric wiring. 2,427,118; Sept. 9.
- Baumgartner, John G., Aurora, Ill. Brush making machine. 2,433,191; Dec. 23.
- Baumgartner, John G., Aurora, Ill. Brush making machine. 2,433,192; Dec. 23.
- Baumwoll-Spinnerei & Weberei Wettingen, assignee: *See*—  
Lanz, Adolf.
- Bausch, Carl L., Brighton, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Spectacle mounting with screw locking means. 2,428,645; Oct. 7.
- Bausch & Lomb Optical Company, assignee: *See*—  
Bausch, Carl L.  
Benford, James R., and Foster.  
Flint, Edward F.  
Meyer, Gerard A.  
Mitby, Lloyd G., and Ramstorf.  
Peterson, Stanley V., and Turner.  
Rice, Richard M.  
Stegeman, Raymond F. E.  
Turner, Arthur F., and Horsfall.  
Turner, Arthur F., and Ullrich.
- Bayer, Clyde B., Fanwood, assignor to The Babcock & Wilcox Company, Newark, N. J. Fluid heating. 2,418,815; Apr. 15.
- Bavley, Abraham, Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Nondiffusing phenolic color couplers. 2,418,747; Apr. 8.
- Bavley, Abraham, Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Heterocyclic color couplers. 2,418,748; Apr. 8.
- Bavley, Abraham, Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Nondiffusing couplers for color photography. 2,425,503; Aug. 12.
- Bavosi, Reno R., Milford, Mass. Grinding wheel dressing tool. 2,425,453; Aug. 12.
- Baxter, Charles L.: *See*—  
Taylor, Warren G., and Baxter.
- Baxter, Edward L.: *See*—  
Stigler, Robert G., and Baxter.
- Baxter Laboratories, Inc., assignee: *See*—  
Brandon, Wayne D.
- Bay Chemical Company, Inc., assignee: *See*—  
Comstock, Rock L.  
Comstock, Rock L., and Reeves.
- Bay Shore Machine Company, Inc., assignee: *See*—  
Wikstrom, Alfred.
- Bay State Abrasive Products Company, assignee: *See*—  
Buckner, Orello S.  
Liger, Andrew W.
- Bayer, Otto: *See*—  
Nelles, Johannes, Bayer, Tischbein, and Bachren.
- Bayles, Russell: *See*—  
Quayle, Joshua C., Jones, and Bayles.
- Bayley, Charles D., Ipswich, assignor to Sylvania Electric Products Inc., Salem, Mass. Electric switching device. 2,432,370; Dec. 9.
- Baylis, Albert H., North Irwin, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,417,728; Mar. 18.
- Bayliss, Francis J., Walsall, England. Waist belt or band and its fastening. 2,414,253; Jan. 14.
- Bayne, Robert T., Manitowoc, Wis. Stroboscope. 2,421,182; May 27.
- Bayne, William F., assignor to Duro-Test Corporation, North Bergen, N. J. Metal container. 2,417,464; Mar. 18.
- Bazley, Carl E., Schenectady, N. Y., assignor to General Electric Company. Switch. 2,418,329; Apr. 1.
- Bazley, Ralph L., Jackson Heights, N. Y., assignor to Square D Company, Detroit, Mich. Grinding machine. 2,417,729; Mar. 18.
- Bazley, Ralph L., Jackson Heights, N. Y., assignor to Square D Company, Detroit, Mich. Grinding machine. 2,425,982; Aug. 19.
- Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoemaking. 2,417,042; Mar. 11.
- Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoemaking. 2,429,591; Oct. 28.
- Beach, Glenn P., Oakland, Calif. Cleaning and preserving composition. 2,423,137; July 1.
- Beach, Leland K., Mountainside, N. J., assignor to Standard Oil Development Company. Isomerizing tertiary olefins. 2,425,858; Aug. 19.
- Beach, Lennox F., Port Washington, N. Y., assignor to Purves Corporation, Springfield, Mass. Remote reading flux valve compass system. 2,427,654; Sept. 23.
- Beach, Ralph M.: *See*—  
Robinson, Edwin A., and Beach.
- Beach, Robert W., assignee, et al.: *See*—  
Wildman, Benjamin H.
- Beach, William I., and R. L. Whann, Los Angeles, and A. S. Peterson, assignors to North American Aviation, Inc., Inglewood, Calif. Treating phenolic sheet. 2,433,643; Dec. 30.
- Beachler, Edward D.: *See*—  
Hornbostel, Lloyd, and Beachler.
- Beadell, Don A., Austin, Minn. Box. 2,428,305; Sept. 30.
- Beagle, Florenz E., Findlay, Ohio. Dusting brush. 2,428,306; Sept. 30.
- Beagles, Rufus J., Fort Pierce, Fla. Variable resistance and indicator therefor. 2,429,592; Oct. 28.
- Beal, Anne A.: *See*—  
Peters, Melville F., and Beal.
- Beale, Charles E.: *See*—  
Gillings, Charles, and Beale.
- Beale, Evelyn S. L., Staines, assignor to Alan Muntz & Company Limited, Hounslow, England. Gas-compressing plant having a reciprocating compressor. 2,433,328; Dec. 30.
- Beall, Frank, Detroit, Mich. Rotary cylinder engine, opposed sliding abutments. 2,426,428; Aug. 26.
- Beall, Frank H., Maplewood, N. J. Chromium plating. 2,415,724; Feb. 11.
- Beall, Frank H., Maplewood, N. J. Motor vehicle control apparatus. 2,419,810; Apr. 29.
- Beall, Frank H., Detroit, Mich. Dual engine powered motor vehicle and control mechanism therefor. 2,419,811; Apr. 29.
- Beals, Gillson W., assignor to The Miller Company, Meriden, Conn. Lamp retainer for fluorescent lamps and the like. 2,424,874; July 29.
- Beam, Vilynn O., J. M. Wilson, and B. Cyr, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Resistance bulb thermostat. 2,428,003; Sept. 30.
- Bean, Frank R., assignor to F. A. Smith Manufacturing Company, Rochester, N. Y. Thermostatic switch assembly. 2,425,717; Aug. 19.
- Bean, Howard S., and F. C. Morey, Kensington, Md., assignors to United States of America as represented by the Secretary of the Navy. Shock absorbing landing gear. 2,426,585; Sept. 2.
- Bean, James J., Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y. Combined screening and heavy media separation of particles of widely varying sizes. 2,431,984; Dec. 2.
- Bear Manufacturing Company, assignee: *See*—  
Wochner, Henry.
- Beard, Charles L., Lancaster, Pa. Eccentric driving connection. 2,424,552; July 22.
- Beard, Charles L., Lancaster, Pa. Angle shrinker. 2,425,913; Aug. 19.
- Beard, Joseph G., Haddonfield, N. J., assignor to Radio Corporation of America. Oscillator. 2,421,676; June 3.
- Beardsley & Piper Company, The, assignee: *See*—  
Clay, Murray G.
- Bearse, Arthur E., Columbus, assignor, by mesne assignments, to The C. P. Hall Company, Akron, Ohio. Obtaining thiodiglycolic acid. 2,425,224; Aug. 5.
- Bearse, Arthur E., Columbus, assignor, by mesne assignments, to The C. P. Hall Company, Akron, Ohio. Process of obtaining thiodiglycolic acid. 2,425,226; Aug. 5.
- Bearse, Arthur E., and R. D. Morin, Columbus, Ohio, assignors, by mesne assignments, to Standard Oil Company, Chicago, Ill. Esterification process. 2,414,999; Jan. 28.
- Bearse, Arthur E., and R. D. Morin, Columbus, Ohio, assignors, by mesne assignments, to Standard Oil Company, Chicago, Ill. Production of esters. 2,415,000; Jan. 28.
- Bearse, Arthur E., and J. E. Leonard, Columbus, Ohio, assignors, by mesne assignments, to Standard Oil Company, Chicago, Ill. Preparing a methylcyclopentene dimer. 2,419,668; Apr. 29.



- Bearse, Arthur E., and R. R. Cruse, Columbus, assignors, by mesne assignments, to The C. P. Hall Company, Akron, Ohio. Production of esters of thiodiglycolic acid. 2,425,225; Aug. 5.
- Beason, Robert D., Birmingham, Ala. Sanitary nursing container. 2,432,496; Dec. 16.
- Beatrice Creamery Company, assignee: *See*—North, Gerald C., Alton, and Little.
- Beattie Products, Inc., assignee: *See*—Phillips, Francis L.
- Beatty, Elmer W., assignee, et al.: *See*—Seidel, Robert.
- Beatty, Louis A., Toronto, Ontario, Canada. Water heater. 2,429,663; Oct. 28.
- Beauchamp, Wilfred A., Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Door locking and closing device. 2,424,381; July 22.
- Beauchamp, Wilfred A., Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Railway hatch covers and locking means therefor. 2,433,084; Dec. 23.
- Beaulieu, George S., Polson, Mont. Linoleum rack. 2,416,509; Feb. 25.
- Beaumont Birch Company, assignee: *See*—Weniger, Joseph K.
- Beaure, Arthur, Chicago, Ill. Indicator supporting arm for precision tools. 2,423,434; July 8.
- Beavers, Leo E., Lone Oak, Tex. Projectile. 2,429,599; Oct. 28.
- Beazley, Robert H., Essex, Md. Aircraft wheel spinner and control. 2,414,849; Jan. 28.
- Beber, Adolph J., Copley, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Organometallic salts and making the same. 2,426,586; Sept. 2.
- Beber, Adolph J., Copley, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Accelerator of vulcanization. 2,426,855; Sept. 2.
- Beby, Percival P., Jamaica, N. Y. Convertible pullman seat bed. 2,424,139; July 15.
- Bechberger, Paul F.: *See*—Peterson, Joel D., and Bechberger.
- Bechberger, Paul F., Tenafly, assignor to Bendix Aviation Corporation, Teterboro, N. J. Remote tachometer drive. 2,422,067; June 10.
- Bechberger, Paul F., Tenafly, and W. A. Reichel, Hackensack, assignors to Bendix Aviation Corporation, Bendix, N. J. Permanent magnet telemetric system. 2,415,985; Feb. 18.
- Bechler, André, Moutier, Switzerland. Bearing adjusting device. 2,424,013; July 15.
- Bechman, William O.: *See*—Land, Harry A., and Bechman.
- Bechman, William O., Chicago, Ill., assignor to International Harvester Company. Guide for track shoes or links. 2,416,564; Feb. 25.
- Bechtler, Hans C., Zurich, Switzerland, assignor to Pneumafil Corporation, New York, N. Y. Pneumatic collection and air conditioning for textile spinning frames. 2,431,726; Dec. 2.
- Bechtner, Paul, assignor to American Colloid Company, Chicago, Ill. Dry, lightweight, expanded bentonite. 2,433,193; Dec. 23.
- Beck, Adolf, G. Siebel, and H. Vosskübler, Bitterfeld, Germany; vested in the Attorney General of the United States. Magnesium base alloys. 2,420,293; May 13.
- Beck, Alfred C., Red Bank, and H. T. Friis, Rumson, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Horn antenna system. 2,416,675; Mar. 4.
- Beck, Charles N.: *See*—Geiger, Lyle, and Beck.
- Beck, Edward F. W., and J. S. Ferguson, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Protective device. 2,430,206; Nov. 4.
- Beck, Morris B., Lawrence, N. Y. Manner and means for illuminating room space. 2,428,827; Oct. 14.
- Beck, Richard, Wiesbaden, Germany; vested in the Attorney General of the United States. Driving out occlusions of gases like hydrogen from the surface layers of workpieces. 2,421,863; June 10.
- Beck, Roland A.: *See*—Sensel, Eugene E., and Beck.
- Beck, Wilhelm A., Merion, Pa. Door bottom closing and sealing device. 2,433,331; Dec. 30.
- Becker, Bernard B.: *See*—Hastings, Russell, Jr., and Becker.
- Becker, George A., assignor to Eitel-McCullough, Inc., San Bruno, Calif. Electron tube and making same. 2,417,461; Mar. 18.
- Becker, George A., assignor to Eitel-McCullough, Inc., San Bruno, Calif. Electron tube and making same. 2,417,730; Mar. 18.
- Becker, George A., assignor to Eitel-McCullough, Inc., San Bruno, Calif. External anode electron tube. 2,422,819; June 24.
- Becker, Gottfried, Buderich, near Neuss, and K. Daevs and F. Steinberg, Düsseldorf, Germany; vested in the Alien Property Custodian. Chroming steel articles. 2,415,078; Feb. 4.
- Becker, Helmut, and H. Broschke, Wetzlar, Germany; vested in the Attorney General of the United States. Measuring table. 2,422,611; June 17.
- Becker, Henry J., Floral Park, N. Y., assignor to Boeing Aircraft Company, Seattle, Wash. Angle punch unit. 2,421,864; June 10.
- Becker, Howard L., Rexford, N. Y., assignor to General Electric Company. Thermionic energy detector. 2,419,052; Apr. 15.
- Becker, John S., Rochelle Park, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Rotary hydraulic clutch. 2,417,964; Mar. 25.
- Becker, Joseph A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Bolometric thermistor. 2,414,792; Jan. 28.
- Becker, Joseph A., Summit, and H. Christensen, Springfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Making resistors. 2,414,793; Jan. 28.
- Becker, Joseph A., Summit, H. Christensen, Springfield, and J. J. Kleimack, Westfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Resistor. 2,418,461; Apr. 8.
- Becker, Lloyd K.: *See*—Smith, Fred W., Greider, and Becker.
- Becker, Ralph W., assignor to M. S. Merrill, Denver, Colo. Anchorage for frame straightening apparatus. 2,421,981; June 10.
- Becker, Rudolph, North Plainfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine. 2,415,383; Feb. 4.
- Becker, Rudolph, North Plainfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Thread-controlling mechanism for sewing machines. 2,428,956; Oct. 14.
- Becker, Sam B., assignor to Standard Oil Company, Chicago, Ill. Olefin oxides. 2,430,443; Nov. 11.
- Becker, Sam B., assignor to Standard Oil Company, Chicago, Ill. Catalytic alkylation of aromatic hydrocarbons by paraffins. 2,433,020; Dec. 23.
- Becker, Stephen P., Poughkeepsie, N. Y. Connector. 2,422,332; June 17.
- Becker, Walter, Dayton, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Control system for hydraulic circuits. 2,424,300; July 22.
- Becker, Walter, Dayton, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Control system for hydraulic presses. 2,417,858; Mar. 25.
- Beckham, Leland J., Geddes, assignor to The Solvay Process Company, New York, N. Y. Crystalline olefin-nitrosyl chloride addition products and making them. 2,417,675; Mar. 18.
- Beckstrom, Garfield L.: *See*—Bauer, Hans A., Woods, and Beckstrom.
- Beckwith, Dudley R.: *See*—New, Archibald A., Foord, and Beckwith.
- Beckwith, George E.: *See*—Bierman, Howard R., and Beckwith.
- Beckwith, Gretchen, Clarksburg, W. Va. Hose protector. 2,432,648; Dec. 16.
- Beckwith Manufacturing Company, assignee: *See*—Colella, Gerald S., Lovell, Stanley P., and Lehmberg.
- Beckwith, Raymond A., assignor to Koehring Company, Milwaukee, Wis. Drive gear mechanism. 2,420,294; May 13.
- Beckwith, Raymond A., assignor to Koehring Company, Milwaukee, Wis. Boom shock absorber. 2,426,587; Sept. 2.
- Beckwith, Raymond A., assignor to Koehring Company, Milwaukee, Wis. Tandem bucket paving machine. 2,431,682; Dec. 2.
- Bédard, Louis, Montreal, Quebec, Canada. Captive golf ball. 2,432,714; Dec. 16.
- Bedell, Elmer E.: *See*—Buckingham, William D., and Bedell.
- Beder, Samuel L., assignor of one-half to Irwin F. Mills Associates, New York, N. Y. Toy. 2,419,872; Apr. 29.
- Beder, Samuel L., assignor of one-half to Irwin F. Mills Associates, New York, N. Y. Toy. 2,424,538; July 29.
- Bedford, Alda V., Princeton, N. J., assignor to Radio Corporation of America. Servo cam follower. 2,415,157; Feb. 4.
- Bedford, Alda V., Princeton, N. J., assignor to Radio Corporation of America. Servo mechanism circuits. 2,419,812; Apr. 29.
- Bedford, Alda V., Collingswood, N. J., assignor to Radio Corporation of America. Pulse echo control system. 2,422,068; June 10.
- Bedford, Alda V., Princeton, N. J., assignor to Radio Corporation of America. Automatic gain control for pulse-echo systems. 2,422,069; June 10.
- Bedford, Alda V., Princeton, N. J., assignor to Radio Corporation of America. Pulse-echo control system. 2,422,333; June 17.
- Bedford, Alda V., Princeton, N. J., assignor to Radio Corporation of America. Automatic gain control for pulse-echo systems. 2,422,334; June 17.
- Bedford, Alda V., Princeton, N. J., assignor to Radio Corporation of America. Cadence suppression system for secrecy communication. 2,423,546; July 8.
- Bedford, Alda V., and C. A. Menely, Princeton, N. J., assignors to Radio Corporation of America. Synchronous drive for loads. 2,433,194; Dec. 23.



- Bedford, Burnice D., Schenectady, N. Y., assignor to General Electric Company. Electric valve circuits. 2,419,465; Apr. 22.
- Bednash, Casper S.: *See*—  
Richardson, Avery G., and Bednash.
- Bedwell, Floyd B.: *See*—  
Cecil, Lawrence K., Stengl, and Bedwell.
- Bedworth, Arthur H., and L. G. Curtis, Medford, Mass., said Bedworth assignor to said Curtis. Bottle capping machine. 2,414,434; Jan. 21.
- Beebe, Claud R., Inkster, Mich. Cupola. 2,417,345; Mar. 11.
- Beebe, Stanley J., Norfolk, Va. Sugar dispenser. 2,425,718; Aug. 19.
- Bee Bee Shoe Co., assignee: *See*—  
Galper, Isa.
- Beech Aircraft Corporation, assignee: *See*—  
Earhart, Harold W.  
Roby, Horace H., and Jones.
- Beech, Walter F., and M. M. Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Chromable mono azo pyrazolone dye. 2,429,600; Oct. 28.
- Beecher, Milton F., Holden, assignor to Norton Company, Worcester, Mass. Making abrasive articles. 2,424,140; July 15.
- Beech-Nut Packing Company, assignee: *See*—  
Bousquet, John.
- Beeck, Otto A.: *See*—  
Smith, Albert E., and Beeck.
- Beede, Arnold H., Fairfield, assignor to Electrolux Corporation, Old Greenwich, Conn. Cord winder. 2,428,446; Oct. 7.
- Beede, Herbert G., Pawtucket, R. I., assignor, by mesne assignments, to Pantex Manufacturing Corporation. Pressing machine and cushioning device for use therein. 2,429,914; Oct. 28.
- Beeh, Louis, Springfield, Mass. Fuel feeding system. 2,421,475; June 3.
- Beeh, Louis, Long Meadow, Mass., assignor to Bulova Watch Company, Inc., New York, N. Y. Fuel pump. 2,428,408; Oct. 7.
- Beehler, Vernon L., Lewiston, N. Y. Rescue harness. 2,413,903; Jan. 7.
- Beeler, Earl C., Baggs, Wyo. Sickle grinder. 2,420,645; May 20.
- Beeman, Lyle, Ann Arbor, Mich., assignor to The Master Electric Company, Dayton, Ohio. Push-button switch. 2,421,865; June 10.
- Beemer, Paul K.: *See*—  
Bivans, Elbert L., Beemer, and Montgomery.
- Beems, Floyd E., Dearborn, and E. D. Scott, Plymouth, assignors to Ford Motor Company, Dearborn, Mich. Door handle and latch construction. 2,427,436; Sept. 16.
- Beer, Leo: *See*—  
Kamlet, Jonas, Weisberg, and Beer.
- Beerbower, Alan, Westfield, and J. C. Zimmer, Union, N. J., assignors to Standard Oil Development Company. Lubricant manufacture. 2,431,453; Nov. 25.
- Beesch, Samuel C., and D. A. Legg, Philadelphia, Pa., assignors to Publicker Industries Inc. Fermenting carbohydrates to produce butanol and isopropanol. 2,420,998; May 27.
- Beetham, Robert B., Cedar Rapids, Iowa, assignor to Collins Radio Company. Inductive tuning. 2,423,824; July 15.
- Beezley, Reginald R., Memphis, Tenn. Stabilizer screw for brake bands. 2,423,575; July 8.
- Beezley, Reginald R., Memphis, Tenn. Tire bulge gauge. 2,431,363; Nov. 25.
- Legg, Thomas, Nutley, N. J., assignor to American Can Company, New York, N. Y. Can body making machine. 2,429,982; Nov. 4.
- Beggs, James E.: *See*—  
Stempel, Edward L., Beggs, and Chalberg.
- Beggs, James E., Scotia, N. Y., assignor to General Electric Company. High-frequency electronic device. 2,416,565; Feb. 25.
- Beggs, James E., Scotia, N. Y., assignor to General Electric Company. Cathode. 2,416,566; Feb. 25.
- Beggs, James E., Scotia, N. Y., assignor to General Electric Company. High frequency electric discharge device. 2,428,609; Oct. 7.
- Beggs, James E., Scotia, N. Y., assignor to General Electric Company. Method and apparatus for manufacturing electric discharge devices. 2,428,610; Oct. 7.
- Beggs, James E., Schenectady, N. Y., assignor to General Electric Company. Electric discharge device. 2,430,856; Nov. 18.
- Begtrup, Edward F., Elizabeth, N. J., assignor to Metal & Thermit Corporation, New York, N. Y. Preheating welding rails and mold therefor. 2,416,863; Mar. 4.
- Begun, Semi J., Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Magnetic signal reproducing means. 2,416,279; Feb. 25.
- Begun, Semi J., Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Apparatus and method for magnetic recording. 2,419,195; Apr. 22.
- Begun, Semi J., Cleveland Heights, assignor to Magnetone, Inc., Cleveland, Ohio. Winding control means for magnetic recording and reproducing apparatus. 2,419,476; Apr. 22.
- Begun, Semi J., Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Magnetic recording-reproducing means and system. 2,424,218; July 22.
- Begun, Semi J., Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Magnetic recording-reproducing means and system. 2,429,792; Oct. 28.
- Béhin, Raymond, Gennevilliers, France; vested in the Attorney General of the United States. Wall construction. 2,424,547; July 29.
- Behlen, Robert A., Chagrin Falls, assignor to Air-Maze Corporation, Cleveland, Ohio. Calendered filter material and forming same. 2,423,547; July 8.
- Behn, Eric R., Arlington County, Va. Nonoptical radio-scope rangefinder. 2,420,408; May 13.
- Behr Siegfried, Flushing, N. Y. Garment hanger. 2,419,435; Apr. 22.
- Behrendt, John G., and L. C. Ruthy, Chicago, Ill. Bowl type oil burner. 2,423,079; July 1.
- Behrens, Herbert C., Haddon Heights, assignor to Samuel M. Langston Co., Camden, N. J. Cutoff mechanism. 2,432,497; Dec. 16.
- Behrman, Abraham S.: *See*—  
Cox, John W., and Behrman.  
Hesler, James C., and Behrman.
- Behrman, Abraham S., Chicago, Ill. Packaging of coffee. 2,430,663; Nov. 11.
- Behrman, Abraham S., Chicago, H. B. Gustafson, Hinsdale, and J. C. Hesler, assignors to Inflico Incorporated, Chicago, Ill. Purifying dextrose sugar solutions. 2,413,676; Jan. 7.
- Beich, Paul F., Company, assignee: *See*—  
Alikonis, Justin J.
- Beier, Kurt A., assignor to Schwitzer-Cummins Company, Indianapolis, Ind. Flexible seal. 2,419,385; Apr. 22.
- Beitz, William H., Lomira, Wis. Drilling jig. 2,413,677; Jan. 7.
- Beique, Frederic A., Outremont, Quebec, Canada. Extraction of selective horsebean proteins in acid media. 2,427,760; Sept. 23.
- Beisel, Eugene L., Chicago, Ill. Method and article for deflecting material. 2,423,287; July 1.
- Beiswanger, John.: *See*—  
Riegel, Byron, Meyer, Gouley, and Beiswanger.
- Belada, John, Glassboro, N. J., assignor to Owens-Illinois Glass Company. Apparatus for lining caps. 2,416,249; Feb. 18.
- Belaieff, James F.: *See*—  
Churchill, John A., Belaieff, and Delaney.
- Belaieff, James F., assignor of two-thirds to C. T. Delaney, and Gallay Limited, Cricklewood, London, England. Plate heat exchange apparatus. 2,429,508; Oct. 21.
- Belanger, Albert P. D., Alton, Ill. Tightening means for baling wires and the like. 2,427,489; Sept. 16.
- Belanger, Albert P. D., Alton, Ill. Releasable strap clamping means. 2,430,754; Nov. 11.
- Belanger, Albert P. D., Alton, Ill. Foldable blank cellular spacer plug for receptacles. 2,432,501; Dec. 16.
- Belar, Herbert, Palmyra, and E. C. Guedon, Audubon, N. J., assignors to Radio Corporation of America. Photoelectric control apparatus for diaphragms. 2,421,476; June 3.
- Belcher, Daniel, Minneapolis, Minn., assignor to Bemis Bro. Bag Company, St. Louis, Mo. Valved bag and manufacturing it. 2,415,862; Feb. 18.
- Belcher, Daniel, Minneapolis, Minn., and F. R. Linda, Washington, D. C., assignors to Bemis Bro. Bag Co., Minneapolis, Minn. Bag closing machine. 2,423,080; July 1.
- Belchetz, Arnold, Larchmont, N. Y., assignor to Stauffer Chemical Company. Sulphur production. 2,419,309; Apr. 22.
- Belchetz, Arnold, Larchmont, N. Y., assignor to Stauffer Chemical Company. Sulphur production. 2,419,310; Apr. 22.
- Belchetz, Arnold, Larchmont, N. Y., assignor to Stauffer Chemical Company. Manufacture of silicon tetrachloride and carbon disulphide. 2,425,504; Aug. 12.
- Belchetz, Arnold, Kew Gardens, N. Y., assignor to The M. M. Kellogg Company, Jersey City, N. J. Catalytic conversion of hydrocarbons. 2,421,677; June 3.
- Belgau, Robert C., Detroit, Mich. Heating apparatus. 2,429,916; Oct. 28.
- Belger, Lawrence E.: *See*—  
Laube, Grover, and Belger.
- Belk, William N., Rockford, Ill. Finishing flooring and other wood. 2,431,225; Nov. 18.
- Belko, Lloyd S., Silver Creek, assignor to Martin Fireproofing Corporation, Buffalo, N. Y. Truck for assembling concrete planks and like articles. 2,433,754; Dec. 30.
- Bell Aircraft Corporation, assignee: *See*—  
MacAlpin, Donald R.  
Stanley, Robert, and Strickler.  
Stinson, William E.  
Stinson, William E., and Spenceley.  
Trotter, John C.  
Weingartner, Gerald A.  
Williams, William W.  
Woods, Robert J.



- Bell, Arthur A., Santa Monica, Calif., assignor to Adel Precision Products Corp. Safety control device for closed hydraulic systems. 2,417,231; Mar. 11.
- Bell, Charles C., Marblehead, and R. M. Elliott, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Recovery buoy for hydrobombs. 2,415,863; Feb. 18.
- Bell, Charles J., Chicago, Ill., assignor to The Gates Rubber Company, Denver, Colo. Duplex welding tube. 2,420,221; May 6.
- Bell, Chauncey F., Jr.: *See*—Taylor, Thomas L., and Bell.
- Bell, Clarence D.: *See*—Weber, Arthur G., and Bell.
- Bell, Cleo D., Spokane, Wash. Wire insulation cutting tool. 2,421,049; May 27.
- Bell, Harry A., and W. S. Allen, Detroit, Mich. Sink trap. 2,424,548; July 29.
- Bell & Howell Company, The, assignee: *See*—McNabb, Louis A. Stechbart, Bruno. Stechbart, Bruno, and Foote.
- Bell, Joseph D., San Francisco, Calif. Exercising device. 2,418,154; Apr. 1.
- Bell Products Corporation, assignee: *See*—Sebell, Harry.
- Bell, Richmond T., Highland Park, assignor to The Pure Oil Company, Chicago, Ill. Mercaptan extraction. 2,430,269; Nov. 4.
- Bell Telephone Laboratories, Incorporated, assignee: *See*—Aamodt, Thoralf, and Hilsinger. Albersheim, Walter J. Albert, Walter P. Albert, Walter P., Davis, Gumley and Holden. Anderson, Alva E. Baker, William O. Barney, Harold L. Beck, Alfred C., and Friis. Becker, Joseph A., and Christensen. Becker, Joseph A., Christensen, and Kleimack. Biskeborn, Merle C., and Fox. Black, Robert, Jr., and Romanow. Black, Robert, Jr., Romanow, and Shann. Blair, Royer R. Blake, Foster B. Boardman, Edward M. Boghosian, William H., and Och. Bollman, John H. Bollman, John H., and Kreer. Bond, Walter L., and Mason. Bonorden, Allen R., Koos, Krecek, Large, and Marshall. Bouton, George M., and Schumacher. Bowen, Arnold E. Bozorth, Richard M. Branson, David E., Kinkead, Krecek, and Locke. Briggs, Burnard S. Brown, Henry B. Bruce, Edmond. Bryant, Herbert W. Bryant, Newton W. Buckley, Oliver E. Budenbom, Horace T. Buehler, Ernest. Burgess, Harry A. Busch, Aloysius J. Busch, Aloysius J., Dehn, and Whitney. Carlson, Carl P., Chesnut, and Knowlton. Carr, James A., and Fox. Chapin, Daryl M. Christensen, Carl J. Clark, James E., and Ronci. Corwin, Thomas L. Crump, Elmo E., and Kersta. Cutler, Cassius C. Dahlbom, Carl A. Darlington, Sidney. Davey, James R. Davis, Kingsbury H. De Lange, Owen E. Depew, Charles. Depew, Charles, Depp, and Luce. Depew, Charles, Depp, Luce, and Haynes. Depp, Wallace A. Dickten, Emil, Jr. Dimond, Thomas L. Doba, Stephen, Jr. Doherty, William H. Edson, William A. Edwards, Charles F., and Jansky. Edwards, Paul G. Edwards, Paul G., and Robertson. Ehrhardt, Robert A., and Humphrey. Ellis, William C., and Souden. Ellwood, Walter B. Elmendorf, Charles H. Engelhardt, George B. Engstrom, Olle D. Espenschied, Lloyd. Farkas, Francis S. Fay, Clifford E. Fay, Clifford E., and West. Felch, Edwin P., Jr., and Slonczewski.
- Bell Telephone Laboratories, Incorporated, assignee: *See*—Continued  
Feldman, Carl B. H. Ferrell, Enoch B. Finch, Tudor R., and McLean. Fisk, James B. Fox, Arthur G. Frantz, Glenn R., and Pomeroy. Friis, Harold T. Frosch, Carl J. Fry, Eugene M. Fuller, Calvin S. Gannett, Danforth K. Gilman, George W. Glass, Myron S., Ronci, and Walsh. Goff, Harold W. Goodall, William M. Gould, Harold L. B. Hagstrum, Homer D. Halbrook, Warwick W. Hale, Douglas A. S., and Ronci. Hall, John A., and Mason. Hartman, Paul L. Hearn, Richard B., and Sutliff. Hecht, George. Hersey, Ralph E. Hewitt, William H., Jr. Hickman, Clarence N. Higgins, William H. C., and Warren. Hight, Stuart C. Holden, William H. T., and Morton. Holden, William H. T., and Morton. Houghton, Edward W. Hovland, Henry. Jeanne, Paul A. Johnson, Kenneth S. Julian, Renne S. Julich, Edward M., and Mehmel. Keister, William. Keller, Arthur C. Kellogg, William M. Kemp, Archie R., and Webber. King, Archie P. Kinkead, Fullerton S. Kinsburg, Boris J. Kircher, Raymond J. Knapp, Nicholas, Jr. Koenig, Walter, Jr. Laico, Joseph P., and Ronci. Laird, Arthur G., and Slonczewski. Lakatos, Emory. Lamberty, Frederick R. Lang, Albert G. Lang, Wilmarth Y. Little, John B. Llewellyn, Frederick B. Lovell, Clarence A., and Müller. Lum, George R. MacPherson, Hugh D. Marrison, Warren A. Marshall, Tola A. Mason, Warren P. Mason, Warren P., and McSkimin. Massonneau, Robert F. Mathes, Robert C. Matte, Andrew L. Matthies, William H. Maxfield, Joseph P. McDavitt, Marcellus B. McKim, Burton. McLean, David A. McLean, David A., and Theuerer. McNally, James O. McRae, James W. McSkimin, Herbert J. Meacham, Larned A. Mead, Edward D., and Thomas. Means, Winthrop J. Miller, Ohmer R. Mitchell, Doren. Morrison, Howard. Morton, Edmund R. Mueller, George E. Mumford, William W. Munson, Wilden A., and Steinberg. Myers, Oscar. Neill, Paul. Nesbitt, Ethan A. Newell, Norman A. Newhouse, Russell C. Norton, Frank R., and Schell. Norwood, Charles W. Nyquist, Harry. Ohl, Russell S. Oliver, Bernard M. Parker, Carlyle V. Parkinson, David B. Pearson, Gerald L. Peterson, Eugene. Pfann, William G., Scaff, and White. Pfeiffer, Kenneth W. Pierce, John R. Potter, James A.



Bell Telephone Laboratories, Incorporated, assignee: *See—*  
Continued

Potter, Ralph K.  
Retallack, John B.  
Reynolds, Frederick W.  
Richard, Charles D.  
Rieke, John W.  
Ring, Douglas H.  
Rippere, Robert O.  
Rockwood, George H., Jr.  
Ryder, Robert M.  
Samuel, Arthur L.  
Schelleng, John C.  
Sears, Raymond W.  
Shanck, Roy B.  
Shann, Oscar A.  
Shockley, William.  
Singer, Fred J.  
Sivian, Leon J.  
Skellett, Albert M.  
Sproul, Philip T.  
Tarr, James E.  
Taylor, Edmund R.  
Teal, Gordon K.  
Treuting, Robert G.  
Tyrrell, Warren A.  
Walsh, Edward G.  
Watson, Edward F.  
Wertz, Hugh S.  
West, John W.  
Wilhelm, Henry T.  
Willard, Gerald W.  
Windeler, Alfred S.  
Wise, Raymond O.  
Wooldridge, Dean E.  
Young, William R., Jr.

Bell, Walter H., Lynn, Mass. Cable painting or liquid coating machine. 2,429,915; Oct. 28.

Bellac, Felix J., New York, N. Y. Artificial leather product. 2,417,405; Mar. 18.

Bellamy, Gervas E., assignee: *See—*  
Bidwell, George H.

Bellg, Charles M., Toledo, Ohio. Braiding machine. 2,423,288; July 1.

Bellg, Charles M., Toledo, Ohio. Wire wrapping machine. 2,423,289; July 1.

Bellin, Daniel J., New York, N. Y. Combined shirt board and collar support. 2,414,186; Jan. 14.

Bellmann, Bernard R.: *See—*  
Kimm, Ewald J., and Bellmann.

Bellows, Kenneth C., Sheridan, Wyo. Tunnel lining and forming the same. 2,429,045; Oct. 14.

Bellsnyder, Thomas, Sr., and E. Ritchie, Birmingham, Ala. Mold and core and casting in same. 2,419,873; Apr. 29.

Belluche, Elmer W. and F. R., assignors to The Christensen Machine Company, Racine, Wis. Paper sheet varnisher and printing machine. 2,424,732; July 29.

Belluche, Frank R.: *See—*  
Belluche, Elmer W. and F. R.

Belmont Radio Corporation, assignee: *See—*  
Dunn, William L.  
Plensler, Alexander W.

Belnap, Robert K., Jr.: *See—*  
Bjering, Olav, and Belnap.

Belo, João M., Beira, Portuguese East Africa. Steering gear for trailers. 2,417,287; Mar. 11.

Beloit Iron Works, assignee: *See—*  
Hornbostel, Lloyd.  
Hornbostel, Lloyd, and Goodwillie.

Bels, Basil A., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Electrical connector. 2,423,548; July 8.

Bels, Basil A., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Electrical connector. 2,426,429; Aug. 26.

Bels, Basil A., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Coupling device. 2,432,275; Dec. 9.

Beltice Corporation, assignee: *See—*  
Knowles, Frank W.

Belton Hearing Aid Co., assignee: *See—*  
Posen, Sam.

Beltz, John S., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Cuttings remover for shortwall mining machines. 2,415,986; Feb. 18.

Belz, Sam, Memphis, Tenn. Mechanical horse. 2,423,474; July 8.

Belzung, Alexander E., San Diego, Calif. Center gage for threading tool. 2,419,941; May 6.

Beman, Floyd L.: *See—*  
Reiter, Alfred A., and Beman.

Beman, Ward W., Glendale, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Variable leverage control linkage. 2,423,959; July 15.

Bemis Bro. Bag Company, assignee: *See—*  
Belcher, Daniel.  
Belcher, Daniel, and Linda.  
Geimer, William J.

Bemis, Ken E., Oakland, Calif. Combined timer and actuating means. 2,430,444; Nov. 11.

Benander, George B., Oaklawn, R. I., assignor to Monowatt Electric Corporation. Electrical receptacle. 2,429,793; Oct. 28.

Benbow, Burtis W., Benbow, Calif. Transition section for electrical trolley apparatus. 2,428,957; Oct. 14.

Bendar, Arthur Z., Quincy, Mich. Compressible mop and wringer. 2,418,802; Apr. 8.

Bender, Frank P.: *See—*  
Watter, Michael, and Bender.

Bender, Lloyd F., Waukesha, and J. A. Schmitt, Milwaukee, assignors to The Universal Milking Machine Company, Waukesha, Wis. Milking apparatus. 2,429,983; Nov. 4.

Bender, Otto E., assignor to B/W Controller Corporation, Birmingham, Mich. Immersion heater. 2,414,351; Jan. 14.

Bender, Philip F.: *See—*  
Waite, Charles C., Bender, and Arnett.

Bender, Sydney E., Brooklyn, assignor to American Cyanamid Company, New York, N. Y. Lifesaving dye marker and making same. 2,418,392; Apr. 1.

Bendix Aviation Corporation, assignee: *See—*  
Adair, Paul F., and Bogue.  
Adams, Arben H.  
Alexanderson, Howard A., and Wolf.  
Baade, Henry.  
Bechberger, Paul F.  
Bechberger, Paul F., and Reichel.  
Becker, John S.  
Bevins, James E.  
Bremser, Albert T.  
Brinson, Harry A.  
Broseker, Roland H., and Hessenauer.  
Brown, Jesse B.  
Buxton, James E.  
Buxton, James E., and Miller.  
Chambers, Allan C., and Willis.  
Christiansen, William J.  
Crosby, Lawrence E.  
Crosby, Lawrence E., and Trautman.  
Dasher, Don E.  
Deschamps, Desire J.  
Du Bois, William H.  
Eltgroth, George V.  
Fassett, George R.  
Frank, Frederick C.  
Frei, Jakob R.  
Fuchs, Louis.  
Gartner, John.  
Gilbert, Harrison C.  
Gilbert, Samuel.  
Gleasant, Vernon E.  
Goepfrich, George A.  
Goepfrich, Rudolph A.  
Goepfrich, Rudolph A., and House.  
Gregg, David.  
Haas, Harold G.  
Haas, Harold G., and Russo.  
Hammond, John W.  
Hargreaves, William.  
Harrison, Robert R.  
Havill, Clinton H.  
Hayes, William W.  
Hegy, Louis.  
Honeywell, Charles C.  
Hood, Edwin E., Christian, and Buxton.  
House, Bryan E.  
Huckleberry, Harry M.  
Hukill, Henry D.  
Jandasek, Joseph.  
Karey, Romuald.  
Ketay, Morris F.  
Konet, Henry.  
Kucher, Andrew A.  
Lefler, James L.  
Linton, Thomas B.  
Litton, Felix B.  
MacDuff, Stanley I.  
McConnel, William G.  
Miles, George S.  
Miles, John R.  
Miller, Charles E.  
Miller, Donald L.  
Miller, Joseph R.  
Mock, Frank C.  
Nardone, Romeo M.  
Neild, William G.  
Nicholls, Earl P.  
Noxon, Paul A.  
Peterson, Joel D.  
Peterson, Joel D., and Bechberger.  
Peterson, Robert H.  
Phillips, John P., and Ridder.  
Pontius, George W. III.  
Pontius, George W., III, and Wilson.  
Porter, Finley R.  
Price, Earl R.  
Price, Harold W.  
Quinn, Archibald C.  
Rice, Dell E.  
Rylsky, Gregory V.  
Sayles, Theo C.  
Score, Leslie H., and Haeppe.  
Sloane, Robert W.



- Bendix Aviation Corporation, assignee: *See*—Continued  
 Smith, Stanley B.  
 Spengler, Walter J.  
 Stamper, Hamilton A.  
 Stuart, Alfred A., Jr.  
 Sutton, Robert W., and Winkler.  
 Swift, Harvey C.  
 Thomas, Thomas H., and Price.  
 Tognola, Tullio.  
 Trautman, Walter C., and Meddock.  
 Westman, Sydney E.  
 White, John W.  
 Whitney, Maurice P.  
 Williams, Harry A.  
 Winchel, Henry T.  
 Winchel, Henry T., and Wippert.  
 Winkler, Albert H.  
 Wirth, Emil O.  
 Bendix Helicopter, Inc., assignee: *See*—  
 Bendix, Vincent.  
 Bendix Home Appliances, Inc., assignee: *See*—  
 Bowen, Herbert C.  
 Oliver, Wallace F.  
 Bendix Products Corporation, assignee: *See*—  
 Mock, Frank C.  
 Bendix, Vincent, Flemington, N. J., assignor to Bendix Helicopter, Inc., New York, N. Y. Helicopter bus. 2,414,435; Jan. 21.  
 Bendix-Westinghouse Automotive Air Brake Company, assignee: *See*—  
 Eaton, Wilfred A.  
 Fitch, Ellery R.  
 Shumaker, John G.  
 Benedek, Elek K., Chicago, Ill. Pump or motor. 2,426,588; Sept. 2.  
 Benedict, Wayne L., and W. J. Mattox, assignors to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,415,272; Feb. 4.  
 Benedict, Wayne L., Chicago, and W. J. Mattox, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Production of alkylated aromatic hydrocarbons. 2,418,689; Apr. 8.  
 Benfer, Richard W., Morristown, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Film driving apparatus. 2,415,406; Feb. 11.  
 Benford, James R., Rochester, and L. V. Foster, Irondequoit, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Microscope. 2,414,709; Jan. 21.  
 Bengenheimer, Melvin, East McKeesport, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Thermal and magnetic trip circuit breaker. 2,425,983; Aug. 19.  
 Bengtsson, Sven E., Stockholm, Sweden. Needle raising device for sewing machines. 2,433,257; Dec. 23.  
 Benham, Spence G.: *See*—  
 Karlson, Charles B., Benham, and Gehle.  
 Benioff, Hugo, Pasadena, Calif., assignor, by mesne assignments to Submarine Signal Company, Boston, Mass. Submarine signaling apparatus. 2,415,407; Feb. 11.  
 Benioff, Hugo, Pasadena, Calif., assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass. Spark gap oscillation generator with radiator. 2,422,176; June 17.  
 Benioff, Hugo, La Canada, Calif., assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass. High-frequency spark circuit. 2,417,052; Mar. 11.  
 Benioff, Hugo, La Canada, Calif., assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass. Electroacoustic transducer. 2,419,196; Apr. 22.  
 Benioff, Hugo, La Canada, Calif., assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass. Electroacoustic transducer. 2,419,197; Apr. 22.  
 Benioff, Hugo, La Canada, Calif., assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass. System for locating obstacles. 2,433,332; Dec. 30.  
 Benjamin, George W., Birmingham, Ala., assignor to Continental Gin Company. Idle roller support. 2,429,117; Oct. 14.  
 Benn, George F., Greensboro, N. C., assignor to Carter Fabrics Corporation, South Boston, Va. Section spool conveyor and dispenser. 2,422,768; June 24.  
 Benner, Charles E., Grosse Pointe Woods, assignor to Mott Steel Products Company, Detroit, Mich. Electrode holder. 2,427,894; Sept. 23.  
 Benner, Dale A., Alton, Ill. Container mounted pump. 2,431,534; Nov. 25.  
 Benner, Howard J., and A. M. Hadley, Longmeadow, assignors to The F. W. Sickles Company, Chicopee, Mass. Inductance coil structure. 2,432,715; Dec. 16.  
 Benner, Raymond C.: *See*—  
 Baumann, Henry N., Jr., and Benner.  
 Benneth, David S., Lebanon, Pa. Key case. 2,433,644; Dec. 30.  
 Bennett, Arthur F., West Barrington, R. I., assignor to Brown and Sharpe Manufacturing Company. Driving and control mechanism. 2,432,716; Dec. 16.  
 Bennett, Charles E., Ridgewood, assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J. Buoyant electric cable. 2,419,053; Apr. 15.  
 Bennett, Charles E., Ridgewood, assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J. Electric cable. 2,419,054; Apr. 15.  
 Bennett, Charles E., Ridgewood, assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J. Electric cable. 2,433,729; Dec. 30.  
 Bennett, Charles E., and G. N. Everest, Ridgewood, assignors to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J. Locating electrical faults in electric cable systems. 2,433,505; Dec. 30.  
 Bennett, Charles E., Ridgewood, and P. V. White, Rochelle Park, assignors to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J. Joint for electric cables. 2,414,352; Jan. 14.  
 Bennett, Claude C. and H. L., South Bend, Ind. Dynamometer. 2,425,171; Aug. 5.  
 Bennett-Feragen, Inc., assignee: *See*—  
 Bennett, Harold L.  
 Bennett, Garry E., Hawthorne, Nev., and L. M. Bennett, Long Beach, Calif. Checkerboard. 2,418,287; Apr. 1.  
 Bennett, Harold L.: *See*—  
 Bennett, Claude C. and H. L.  
 Bennett, Harold L., South Bend, Ind., assignor, by mesne assignments, to Bennett-Feragen, Inc., Seattle, Wash. Dynamometer. 2,428,005; Sept. 30.  
 Bennett, Harry, New York, N. Y. Chewing gum compositions. 2,429,664; Oct. 28.  
 Bennett Incorporated, assignee: *See*—  
 Eaton, Charles F.  
 Bennett, James B., Alhambra, and J. J. McCarter, Los Angeles, Calif., assignors, by mesne assignments, to Thermoid Company. Bearing unit for tail wheels. 2,427,831; Sept. 23.  
 Bennett, John G.: *See*—  
 Bangham, Donald H., Bennett, Brown, Hirst, Pirani, and Jennings.  
 Bennett, Joseph O., Mount Vernon, Ill. Finger board. 2,423,169; July 1.  
 Bennett, Laura M.: *See*—  
 Bennett, Garry E. and L. M.  
 Bennett, Lawrence E.: *See*—  
 Borgerd, William F., Majer, Knopp, and Bennett.  
 Bennett, Nicholas: *See*—  
 Hawkins, Peter A., and Bennett.  
 Bennett, Paul G., Boston, Mass. Gunsight. 2,426,812; Sept. 2.  
 Bennett, Racy D., assignor to Vinco Corporation, Detroit, Mich. Speed control valve. 2,417,583; Mar. 18.  
 Bennett, Ralph S., Pittsfield, Mass., assignor to General Electric Company. Electric circuit interrupter. 2,421,236; May 27.  
 Bennett, Ralph S., Pittsfield, Mass., assignor to General Electric Company. Electric circuit interrupter. 2,421,982; June 10.  
 Bennett, Robert B., Detroit, Mich. Toy construction. 2,429,213; Oct. 21.  
 Bennett, Robert J., Pittsburgh, Pa. Trailer hitch. 2,429,544; Oct. 21.  
 Bennett, Robert M., Ithaca, Pa., assignor to General Electric Company. Electric circuit interrupter. 2,418,690; Apr. 8.  
 Bennett, Robert N., Findlay, Ohio, assignor, by mesne assignments, to Gar Wood Industries, Inc., Detroit, Mich. Transmission. 2,431,727; Dec. 2.  
 Bennett, Thomas F., Joplin, Mo., assignor to Hercules Powder Company, Wilmington, Del. Adjustable lined container having interchangeable screw-threaded sections. 2,416,142; Feb. 18.  
 Bennett, Tom, Droylsden, Manchester, and E. Hurst, Denton, Manchester, assignors to themselves and G. Carner & Co., Limited, Manchester, England. Water heater. 2,423,000; June 24.  
 Bennett, Walter, assignor to Utility Trailer Manufacturing Company, Los Angeles, Calif. Drop leg and coupler interlock for trailers. 2,417,903; Mar. 25.  
 Bennett, Walter, assignor to Utility Trailer Manufacturing Company, Los Angeles, Calif. Interlock for couplings and supports for trailers. 2,417,904; Mar. 25.  
 Bennett, Willard H., U. S. Army. Antenna. 2,416,280; Feb. 25.  
 Benning, Anthony F.: *See*—  
 Downing, Frederick B., Benning, and McHarness.  
 Benning, Anthony F., Woodstown, N. J., assignor to Kinetic Chemicals, Inc., Wilmington, Del. Fluorination of unsaturated compounds. 2,426,172; Aug. 26.  
 Benning, Anthony F., Woodstown, N. J., and J. D. Park, assignors to Kinetic Chemicals, Inc., Wilmington, Del. Preparing fluoro-chloro compounds. 2,420,222; May 6.  
 Benning, Walter F., Toledo, Ohio, assignor to Mack Manufacturing Corporation, New York, N. Y. Nonlocking brake valve. 2,418,288; Apr. 1.  
 Benning, Walter F., Toledo, Ohio, assignor to Mack Manufacturing Corporation, New York, N. Y. Emergency brake lever. 2,421,405; June 3.  
 Bennington, C. H., Mfg. Co., Inc., assignee: *See*—  
 Hinkle, George A.  
 Benoit, Joseph A., Many, La. Condiment holder. 2,427,380; Sept. 16.  
 Benschel, Duryea: *See*—  
 Lee, Katherine L., and Benschel.  
 Benschel, Duryea, Los Angeles, Calif. Garment belt. 2,427,119; Sept. 9.  
 Benson, Ary A., Los Angeles, Calif. Brake. 2,422,713; June 24.  
 Benson, August H., Los Angeles, Calif. Portable fire hydrant. 2,418,808; Apr. 15.



- Benson, Ernest K.: *See*—  
Connor, Francis G., Benson, and Collyer.
- Benson, Jesse M., Concord, Tenn., assignor to Sasgen Derrick Co., Chicago, Ill. Safety scaffold winch. 2,424,910; July 29.
- Benson, John H., assignor to Mullins Manufacturing Corporation, Salem, Ohio. Combined drawer and rack. 2,418,919; Apr. 15.
- Benson, John H., assignor to Mullins Manufacturing Corporation, Salem, Ohio. Two-level refrigerator. 2,425,505; Aug. 12.
- Benson, Merle K., Benton Harbor, Mich. Birdhouse. 2,424,733; July 29.
- Benson, N. P., assignee, et al.: *See*—  
Krebs, Daniel D., and Lea.
- Benson, Nels C.: *See*—  
Goldberg, Benjamin, and Benson.
- Benson, Ralph L., assignor, by mesne assignments, to Gibson Refrigerator Company, Greenville, Mich. Assembling electric motors. 2,423,750; July 8.
- Benson, Sidney W.: *See*—  
Kistiakowsky, George B., and Benson.
- Bent, Franklin A., and E. A. Peterson, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Tall oil ester resins and their production. 2,424,074; July 15.
- Bentley Engineering Company Limited, The, assignee: *See*—  
Deans, Frederick E.  
Manger, Charles F., Buswell, and Peberdy.  
Wainwright, Carlyle H.
- Bentley, George P., Forest Hills, N. Y., and C. A. Frische, Leonia, N. J., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Hydraulic control system. 2,432,502; Dec. 16.
- Bentley, Robert H., assignor to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn. Rotary selector switch. 2,421,983; June 10.
- Bentz, John A., Harrisburg, Pa. Safety container for merchandise. 2,421,678; June 3.
- Benware, Robert T., assignor to Philco Corporation, Philadelphia, Pa. Ultra high frequency discriminator. 2,413,939; Jan. 7.
- Benzel, Howard A., Marilla, assignor to Scott Aviation Corporation, Lancaster, N. Y. Compressor for hydraulic brake units and the like. 2,421,866; June 10.
- Berberich, Frank J., Jr., Los Angeles, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Trailing antenna. 2,432,371; Dec. 9.
- Berberich, Leo J., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Insulating material. 2,416,143; Feb. 18.
- Berch, Samuel H., Beverly Hills, assignor to The Flexible Vacuum Container Corporation, Los Angeles, Calif. Vacuum packaging machine. 2,428,192; Sept. 30.
- Berchold, Wallace W., York, Pa., assignor to American Chain & Cable Company, Inc., Bridgeport, Conn. Crane. 2,419,813; Apr. 29.
- Beresin, Morris, Philadelphia, Pa. Artificial tooth. 2,417,965; Mar. 25.
- Beresin, Morris and V. E., Philadelphia, Pa. Dentistry. 2,428,773; Oct. 14.
- Beresin, Victor E.: *See*—  
Beresin, Morris and V. E.
- Berg, Clyde H. O., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Recovery of azeotrope former in azeotropic distillation of hydrocarbons. 2,428,611; Oct. 7.
- Berg, Conrad S. J., Nossbro, Sweden. Air nozzle. 2,419,386; Apr. 22.
- Berg, Edward C., Chicago, Ill., assignor, by mesne assignments, to M. I. Williamson, New Haven, Conn. Dispensing container. 2,426,856; Sept. 2.
- Berg, Hazel A., assignee, et al.: *See*—  
Lowe, Richard R.
- Berg, Russell A., Fort Monmouth, N. J. Temperature compensating condenser for electrical circuits. 2,414,436; Jan. 21.
- Bergan, Martin D., Westfield, N. J., assignor to The Thomas & Betts Co., Elizabeth, N. J. Electrical coupling disconnecter. 2,427,182; Sept. 9.
- Bergan, Martin D., Westfield, assignor to The Thomas & Betts Co., Elizabeth, N. J. Electrical connecting conductor. 2,427,518; Sept. 16.
- Bergan, Martin D., Westfield, assignor to The Thomas & Betts Co., Elizabeth, N. J. Electrical swivel disconnecter. 2,430,270; Nov. 4.
- Berge, Byron T.: *See*—  
Larson, Leonard, and Berge.
- Berge, Joseph, Maplewood, N. J., assignor to Jaeger Watch Company, Inc., New York, N. Y. Tachometer. 2,428,828; Oct. 14.
- Bergel, Franz, N. C. Hindley, A. L. Morrison, and H. Rinderknech, Welwyn Garden City, England, assignors, by mesne assignments, to Hoffmann-La Roche Inc., Roche Park, Nutley, N. J. Manufacture of cyclic bases derived from arylacetoneitrile derivatives. 2,418,289; Apr. 1.
- Bergel, Franz, A. Cohen, A. L. Morrison, and A. R. Moss, Welwyn Garden City, England, assignors, by mesne assignments, to Hoffmann-La Roche Inc., Nutley, N. J. Resolution of  $\alpha$ -hydroxy- $\beta$ : $\beta$ -dimethyl  $\alpha$ -butyrolactone. 2,423,062; June 24.
- Bergen, Edward, Bronxville, assignor to The Rieser Company, Inc., New York, N. Y. Hair curler. 2,415,331; Feb. 4.
- Berger, Alfred J., and H. S. Greene, Cincinnati, Ohio. Treatment of tobacco. 2,419,109; Apr. 15.
- Berger, Bela, Phoenix, Ariz. Furniture construction. 2,427,832; Sept. 23.
- Berger Brothers Company, The, assignee: *See*—  
Versoy, Irving R.
- Berger, Carl R., Jr., Philadelphia, Pa., assignor to Sels Corporation of America. Internal-combustion gas burner. 2,427,545; Sept. 16.
- Berger, Emrie W., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Washer type compression spring with tubular or sheathlike elastic covering. 2,432,717; Dec. 16.
- Berger, Henry G.: *See*—  
Fuller, Everett W., Redman, and Berger.
- Berger, Henry G., Glen Rock, and E. W. Fuller, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Mineral oil composition. 2,416,281; Feb. 25.
- Berger, Henry G., G. S. Crandall, and J. F. Socolofsky, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Dispersing oil gels. 2,418,920; Apr. 15.
- Berger, Henry G., Glen Rock, and G. S. Crandall and J. F. Socolofsky, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Boding drying oils and the product resulting therefrom. 2,418,921; Apr. 15.
- Berger, Henry G., Glen Rock, and E. W. Fuller, Woodbury, N. J., assignors to Socony-Vacuum Oil Company Incorporated. Mineral oil composition. 2,421,004; May 27.
- Berger, John L., Columbia, assignor to Armstrong Cork Company, Lancaster, Pa. Manufacture of linoleum. 2,425,719; Aug. 19.
- Berger, Oscar H., Washington, D. C. Window cleaner. 2,413,854; Jan. 7.
- Bergh, Charles J., assignor to Jacobsen Manufacturing Company, Racine, Wis. Air charger for jet pumps. 2,421,237; May 27.
- Bergh, Charles J., assignor to Jacobsen Manufacturing Company, Racine, Wis. Shallow well self-priming pump. 2,433,021; Dec. 23.
- Bergholm, Axel O.: *See*—  
Eksergian, Rupen, and Bergholm.
- Bergier, Jacques, A. Eskenazi, and A. Helbronner, Lyon, France; vested in the Alien Property Custodian. Sizing and dressing means. 2,415,408; Feb. 11.
- Berglund, Ralph M., Seattle, Wash., assignor to American Can Company, New York, N. Y. Valve closed container. 2,429,984; Nov. 4.
- Bergman, Charles P., Brooklyn, N. Y., assignor to Rockwell Manufacturing Company. Compound meter. 2,425,720; Aug. 19.
- Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Dynamolectric machine. 2,421,592; June 3.
- Bergmann, Ernst R., assignor to Goodman Manufacturing Company, Chicago, Ill. Self-loading device for shaker conveyors. 2,425,078; Aug. 5.
- Bergmann, Richard F., Winnetka, and A. K. Sjolander, Chicago, Ill., assignors to Link-Belt Company. Unitary casing feed section for conveyors. 2,428,774; Oct. 14.
- Bergquist, Theodore W., Willow Grove, assignor to J. E. Lonergan Company, Philadelphia, Pa. Safety valve. 2,414,794; Jan. 28.
- Bergstein, Frank D., assignee, et al.: *See*—  
Bergstein, Samuel.
- Bergstein, Gerson K., St. John's Wood, London, assignor, by mesne assignments, to Despo Manufacturing Co. Limited, London, England. Treatment of ferrous metals to improve resistance to rusting. 2,431,728; Dec. 2.
- Bergstein, Robert M., assignee, et al.: *See*—  
Bergstein, Samuel.
- Bergstein, Samuel, Cincinnati, Ohio, assignor to R. M. and F. D. Bergstein, trustees. Making collapsed boxes. 2,430,755; Nov. 11.
- Bergsteinsson, Ingolfur: *See*—  
Finch, Harry D., and Bergsteinsson.
- Bergsteinsson, Ingolfur, Billings, Mont., and H. D. Finch, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Supported silver catalyst and its preparation. 2,424,085; July 15.
- Bergsteinsson, Ingolfur, Billings, Mont., and H. D. Finch, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Production of olefin oxides. 2,424,086; July 15.
- Bergstrom, Carl P., and A. J. Herard, Jr., assignors to Crompton & Knowles Loom Works, Worcester, Mass. Cloth roll mechanism for looms. 2,425,781; Aug. 19.
- Bergstrom, Carl P., and R. S. Schedin, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Link for loom harness mechanism. 2,429,794; Oct. 28.
- Bergstrom, Eric V., Short Hills, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Method and apparatus for hydrocarbon conversion. 2,429,545; Oct. 21.
- Bergstrom, Eric V., Short Hills, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Heating hydrocarbons by contact with a moving granular solid. 2,432,962; Dec. 16.



- Bergstrom, Eric V., Short Hills, N. J., and E. Utterback, New York, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated. Heater. 2,432,503; Dec. 16.
- Bergstrom, Harold G., New Rochelle, N. Y., Folding box with slotted divider members. 2,431,535; Nov. 25.
- Berk, Henry, Elizabeth, and D. W. Young, Roselle, N. J., assignors to Standard Oil Development Company. Preparation of low molecular weight olefin polymers. 2,431,454; Nov. 25.
- Berkey, Hugh S., Orange, Calif. Combination pump and gas lift. 2,427,703; Sept. 23.
- Berkey, William E., Forest Hills, Pa., and R. Lamphere, Springfield, Mass., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Low-pressure gap device. 2,431,226; Nov. 18.
- Berkman, Boris, Appleton, Wis., A. R. Bacon and C. Weber, assignors to Milkweed Products Development Corporation, Chicago, Ill. Milkweed gin. 2,426,813; Sept. 2.
- Berkman, Herbert A., Chicago, Ill., assignor to Zim Manufacturing Company. Can opener stop element. 2,423,221; July 1.
- Berkoff, Seymour, Bridgeport, Conn., assignor to General Electric Company. Amplifier gain control. 2,430,699; Nov. 11.
- Berkson, Louis E., Fresno, Calif. F-bar key for saxophones. 2,419,874; Apr. 29.
- Berl, Ernst, deceased, Pittsburgh, Pa., W. G. Berl, executor. Emulsion. 2,413,855; Jan. 7.
- Berl, Ernst, and W. G. Berl, Pittsburgh, Pa.; W. G. Berl, executor of E. Berl, deceased. Smokeless powder. 2,428,829; Oct. 14.
- Berl, Walter G.: *See*—  
Berl, Ernst and W. G.
- Berl, Walter G., executor: *See*—  
Berl, Ernst.
- Berlincourt, William E., Montreal, Quebec, Canada. Watchmaker's staking tool and jewel setter. 2,421,310; May 27.
- Berliner, Henry A., Washington, D. C., assignor to Engineering and Research Corporation, Riverdale, Md. Compressor. 2,423,634; July 8.
- Berliner, Henry A., Washington, D. C., assignor to Engineering and Research Corporation, Riverdale, Md. Propeller blade. 2,430,854; Nov. 18.
- Berlowitz, Elly: *See*—  
Berlowitz, Max.
- Berlowitz, Max, deceased, London, England; E. Berlowitz, administratrix. Cooling of gases or liquids. 2,414,135; Jan. 14.
- Berman, Hyman, Bronx, N. Y. Back-protective surgical suspender vest. 2,418,009; Mar. 25.
- Berman, Maxwell, Mount Vernon, N. Y. Knife holder-sharpener. 2,430,700; Nov. 11.
- Berman, Paul, Philadelphia, Pa. Collapsible clothes drier. 2,424,646; July 29.
- Bernal, Maurice V., assignor of one-half to J. Turner, Merced, Calif. Suction pump. 2,430,552; Nov. 11.
- Bernard, Arthur A., Chicago, Ill., assignor to National Cylinder Gas Company. Welding electrode. 2,430,701; Nov. 11.
- Bernard, Clyde W., Kingsport, Tenn. Dump bedbucket. 2,417,288; Mar. 11.
- Bernard, Frances M., assignee, et al.: *See*—  
Bernard, Nicholas.
- Bernard, Nicholas, Crowley, La., assignor of one-half to F. M. Bernard, and one-half to A. B. Ducharme. Railroad tie forming machine. 2,418,570; Apr. 8.
- Bernardi, Dominic J., and R. T. Florence, Bronx, assignors to Interchemical Corporation, New York, N. Y. Printing ink. 2,416,676; Mar. 4.
- Bernas, Robert: *See*—  
Yardeny, Michel N., and Bernas.
- Yardeny, Michel N., and Bernas, and Prindle.
- Yardeny, Michel N., Bernas, and Kardoff.
- Bernaui, John H., Ogden, Iowa. Endless cable mail carrier. 2,425,141; Aug. 5.
- Berndt, Arthur, New York, N. Y., and K. Berndt, Asheville, N. C. Toy. 2,418,922; Apr. 15.
- Berndt, Arthur A., Chicago, Ill. Choker sling. 2,416,733; Mar. 4.
- Berndt, Kurt: *See*—  
Berndt, Arthur and K.
- Berndtson, John O., Short Beach, assignor to The Snow-Nabstedt Gear Corporation, New Haven, Conn. Transmission mechanism. 2,426,160; Aug. 26.
- Bernhardt, Jacob, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Manufacture of Pitot-static tubes. 2,428,542; Oct. 7.
- Bernhelm, Daniel P., and E. M. Splaine, assignors to American Optical Company, Southbridge, Mass. Variable density goggle. 2,422,287; June 17.
- Berninger, Kenneth L.: *See*—  
Martin, Thomas B., and Berninger.
- Bernkull, Oscar H., Goteborg, Sweden. Antiskid device. 2,424,647; July 29.
- Bernstein, Herman, assignee, et al.: *See*—  
Warner, Samuel W.
- Bernstein, Isidor M., assignor, by mesne assignments, to H. D. Roosen Company, Inc., Brooklyn, N. Y. Separating polymers of heat polymerized drying oil. 2,423,751; July 8.
- Bernstein, Seymour: *See*—  
Baker, Bernard R., Safir, and Bernstein.
- Safir, Sidney R., Bernstein, and Baker.
- Bernstein, Seymour, Pearl River, B. R. Baker, Nanuet, and S. R. Safir, Pearl River, assignors, by mesne assignments, to American Cyanamid Company, New York, N. Y. 5-keto-2,4,6,8-tetrahydroimidazole [4,5-c] thiophenes and preparing the same. 2,418,923; Apr. 15.
- Berrayarza, Oswaldo, Burbank, and D. C. Hill, Los Angeles, Calif. Pea shooter. 2,427,490; Sept. 16.
- Berry, Clyde F., Manchester, N. H. Transmission actuated engine valve mechanism of the combination gear type. 2,432,649; Dec. 16.
- Berry, Ernest A., Inglewood, Calif. Sine bar. 2,417,150; Mar. 11.
- Berry, Frank R., Jr., Clarks Green, Pa. Vehicle mounted ash tray. 2,418,749; Apr. 8.
- Berry, Fred M., Kansas City, and W. R. Lewis, Independence, Mo. Electronic keying circuit. 2,425,667; Aug. 12.
- Berry, Kenneth L., Hockessin, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Electrical insulation. 2,427,183; Sept. 9.
- Berry, Marvin S., Fayetteville, Ark. Suspenders. 2,415,725; Feb. 11.
- Berry, Reni S., Los Angeles, Calif., assignor to Adel Precision Products Corp. Conduit supporting clip. 2,423,222; July 1.
- Bersworth, Frederick C., Verona, N. J. Vinyl polymer plasticized with ethylene diamine tetraacetic acid ester. 2,413,856; Jan. 7.
- Bersworth, Frederick C., Verona, N. J. Lower aliphatic esters of ethylene and propylene-diamine N,N'-tetraacetic acids. 2,428,353; Oct. 7.
- Bersworth, Frederick C., Verona, N. J., and M. Omansky, Brookline, Mass., assignors to F. C. Bersworth. Vulcanizable products and their manufacture. 2,418,857; Jan. 7.
- Bertetti, John W., El Dorado, Ark., assignor to Pan American Refining Corporation, Texas City, Tex. Concentrating aqueous solutions of hygroscopic liquids. 2,432,136; Dec. 9.
- Berthel, Gust A., Chicago, assignor to Jefferson Electric Company, Bellwood, Ill. Cartridge fuse. 2,430,041; Nov. 4.
- Berthoff, Nathaniel: *See*—  
Phillips, Ernest B., and Berthoff.
- Bertram, Edward A.: *See*—  
Worn, George A., and Bertram.
- Bertram, Edward A., Mount Vernon, assignor to The Lummus Company, New York, N. Y. Heat exchanger. 2,428,768; Oct. 14.
- Besler, William J., Happy Valley, Calif. Fog generator. 2,432,372; Dec. 9.
- Besser, Otto R., Maspeth, assignor, by mesne assignments, to Ray-Lite Electrical Development Corporation, Woodside, N. Y. Electrode for fluorescent tubes. 2,429,118; Oct. 14.
- Bessire, Jean-Jacques, Biel, Switzerland. Pickup device of sound-reproducing machines. 2,418,617; Apr. 8.
- Bessy, Peter F., Detroit, Mich. Vacuum pumping apparatus. 2,427,347; Sept. 16.
- Best, Albert H.: *See*—  
Bain, Joseph P., and Best.
- Best, Clarence S., assignor to National Sewing Machine Company, Belvidere, Ill. Sewing machine. 2,420,695; May 20.
- Best, Clarence S., assignor to National Sewing Machine Company, Belvidere, Ill. Sewing machine. 2,420,696; May 20.
- Best, Clarence S., assignor to National Sewing Machine Company, Belvidere, Ill. Sewing machine. 2,420,697; May 20.
- Best, Clarence S., assignor to National Sewing Machine Company, Belvidere, Ill. Sewing machine support. 2,420,698; May 20.
- Best, Clarence S., assignor to National Sewing Machine Company, Belvidere, Ill. Sewing machine. 2,422,820; June 24.
- Best, Clarence S., assignor to National Sewing Machine Company, Belvidere, Ill. Sewing machine. 2,428,347; Oct. 7.
- Best, Clarence S., assignor to National Sewing Machine Company, Belvidere, Ill. Sewing machine. 2,430,207; Nov. 4.
- Best, Clarence S., assignor to National Sewing Machine Company, Belvidere, Ill. Sewing machine support. 2,430,208; Nov. 4.
- Best, Ernest, Fredonia, N. Y. Tractor grape hoe. 2,419,331; Apr. 22.
- Best Foods, Inc., The, assignee: *See*—  
Vahlteich, Hans W.
- Best, Frank A., Windsor, Ontario, Canada. Latch mechanism. 2,424,962; Aug. 5.
- Best, Frank A., Windsor, Ontario, Canada. Window channel. 2,428,006; Sept. 30.
- Best, Frank A., Windsor, Ontario, Canada. Window channel. 2,433,333; Dec. 30.
- Bethea, Sam R., Baytown, Tex., assignor to Standard Oil Development Company. Production of premium aviation fuel components. 2,425,506; Aug. 12.



- Bethke, Leo, Maywood, assignor to Solar-Sturges Mfg. Co., Melrose Park, Ill. Device for dispensing from an inverted milk can. 2,423,679; July 8.
- Bethlehem Steel Company, assignee: *See*—  
Frear, Hugo P.  
Stevens, Richard H., and Wilson.  
White, William E.
- Bettcher, Mortimer L., Montgomery County, assignor to The Duriron Company, Inc., Dayton, Ohio. Shaft seal. 2,419,623; Apr. 29.
- Bettencourt, Joseph G., Berkeley, Calif. Liquid sealed pipe cap. 2,422,070; June 10.
- Better Packages, Inc., assignee: *See*—  
Engberg, Ralph E.
- Betts & Company Limited, assignee: *See*—  
Stather-Dunn, Eustace, and Menheneott.
- Betts, William V.: *See*—  
Petry, Theodor A., Lee, Biles, and Betts.
- Betzen, John L., Wichita, Kans. Turning lathe. 2,422,071; June 10.
- Betzler, Henry W., Rutherford, N. J., assignor to Federal Telephone & Radio Corporation, New York, N. Y. Housing. 2,414,437; Jan. 21.
- Benschel, Clemens E., Queens Village, assignor to Western Electric Company, Incorporated, New York, N. Y. Wire stripping apparatus. 2,415,669; Feb. 11.
- Beverage, Harold H., Riverhead, N. Y., assignor to Radio Corporation of America. Radio receiver system. 2,416,791; Mar. 4.
- Beveridge, David D., Jr., Boston, Mass. Electric switch. 2,420,768; May 20.
- Beveridge, James B., Westmount, Quebec, Canada, and R. D. Kehoe, Hadlyme, Conn., assignors to Paper and Industrial Appliances, Inc., New York, N. Y. Production of pulp from cellulosic material. 2,422,522; June 17.
- Beveridge, James B., Westmount, Quebec, Canada, R. D. Kehoe, Hadlyme, Conn., and A. Surino, Bronxville, assignors to Paper and Industrial Appliances, Inc., New York, N. Y. Apparatus for producing pulp from cellulosic material. 2,425,024; Aug. 6.
- Beverlin, Robert S., Toledo, Ohio, assignor to Aerodynamic Research Corporation, Washington, D. C. Workholding means for grinding machines. 2,413,678; Jan. 7.
- Bevington, Christopher F. P.: *See*—  
Martin, Sidney L., and Bevington.
- Bevins, James E., Hackensack, assignor to Bendix Aviation Corporation, Bendix, N. J. Charging temperature responsive systems. 2,426,663; Sept. 2.
- Bevins, James E., Ramsey, assignor to Bendix Aviation Corporation, Teterboro, N. J. Resetting mechanism for indicators. 2,433,541; Dec. 30.
- Beyer, Elmo, Corpus Christi, Tex. Excavating machine. 2,428,694; Oct. 7.
- Beyer, Raymond H., assignor to South Bend Bait Company, South Bend, Ind. Fishing rod. 2,424,430; July 22.
- Beyrodt, Kurt, Williston Park, assignor to F. W. Ille, Long Island City, N. Y. Therapeutic bath. 2,428,004; Sept. 30.
- Beyvl, Joseph M.: *See*—  
Barnett, Charles A., and Beyvl.
- Bezovsky, Albert A., Myrtle Point, Oreg. Device for warming and reconditioning beer. 2,421,921; June 10.
- Bezerides, Paul A., Orosi, Calif. Foot actuated post setter. 2,432,650; Dec. 16.
- Bhoota, Babooibhai V., assignor to The Dorr Company, New York, N. Y. Liquid purifier having cation exchangers communicating selectively with anion exchangers. 2,422,821; June 24.
- Bibbcoff, Hilarion, Belleville, Mich. Clutch actuator. 2,421,050; May 27.
- Bice, Claude W., and M. M. MacMasters, Peoria, Ill., assignors to the United States of America, as represented by the Secretary of Agriculture. Internal surgical dressing. 2,423,475; July 8.
- Bichsel, Harry J.: *See*—  
Mahoney, John R., and Bichsel.
- Bichsel, Harry J., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control circuit. 2,416,144; Feb. 18.
- Bichsel, Suzanne, and B. Isaacson, New York, N. Y. Portable hair drier. 2,420,732; May 20.
- Bickford, Lawrence R., Jr., State College, assignor to Sylvania Electric Products Inc., Emporium, Pa. Fluorescent light source. 2,413,940; Jan. 7.
- Bicknell, Frank A.: *See*—  
Bishop, Benjamin S. T., and Bicknell.
- Bicknell, George M., assignor to Carter Carburetor Corporation, St. Louis, Mo. Fuel conditioning device. 2,421,406; June 3.
- Bicknell, George R., Antioch, Ill., and F. A. Heidenfelder, Whitewater, Wis., assignors to The American Laundry Machinery Company, Norwood, Ohio. Sleeve press. Re. 22,937; Nov. 25.
- Biddle, Frank E., Los Angeles, Calif., assignor, by mesne assignments, to Warner Bros. Pictures, Inc., New York, N. Y. Film guide for cameras. 2,423,925; July 15.
- Biddle, Frank E., Los Angeles, Calif., assignor, by mesne assignments, to Warner Bros. Pictures, Inc., New York, N. Y. Film gate for cameras. 2,428,348; Oct. 7.
- Biddle, Frank E., and C. O. Rogne, Jr., assignors, by mesne assignments, to Warner Bros. Pictures, Inc., New York, N. Y. Camera film threading mechanism. 2,428,349; Oct. 7.
- Biddle, William P., Jr.: *See*—  
Sanford, Hugh W., and Biddle.
- Bidner, John: *See*—  
Rees, Hiram P., and Bidner.
- Bidwell, George H., Kansas City, assignor of one-half to G. E. Bellamy, Bethel, Kans. Electric fishing float. 2,425,590; Aug. 12.
- Biederman, Joseph B., Cincinnati, Ohio. Nasal device. 2,426,161; Aug. 26.
- Biegel, John, Kansas City, Mo., assignor to Phillips Petroleum Company. Catalytic conversion apparatus. 2,419,528; Apr. 29.
- Biehn, Gordon E., Hockessin, and J. E. Kirby, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. 4,4'-dichlorodiphenyl 1,1,1-trichloroethane dispersed in polyvinyl acetate. 2,420,295; May 13.
- Biehn, Gordon E., Mill Creek Hundred, and E. T. Cline, Brandywine Hundred, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Shaped protein structures and their preparation. 2,429,214; Oct. 21.
- Bieker, Lawrence W., Munster, Ind., and E. W. Welp, Chicago, Ill., assignor to Graver Tank & Mfg. Co., Inc. Tank structure for liquid treatment. 2,419,004; Apr. 15.
- Bierce, Ernest C., Pasadena, Calif. Apparatus for smelting sulphur. 2,433,591; Dec. 30.
- Bierenfeld, Josef, Milwaukee, Wis., assignor to Square D Company, Detroit, Mich. Electric relay. 2,427,437; Sept. 16.
- Bierer, John M., Waban, assignor to Boston Woven Hose and Rubber Company, Cambridge, Mass. Shoe sole. 2,419,387; Apr. 22.
- Bierman, Carroll M., assignee: *See*—  
Wagner, Frank J.
- Bierman, Howard R., and G. E. Beckwith, U. S. Navy. Mask. 2,414,405; Jan. 14.
- Biermann, David, Hampton, Va. Airscrew. 2,423,752; July 8.
- Biermann, David, Blue Island, Ill. Variable pitch propeller. 2,429,665; Oct. 28.
- Biermann, David, Blue Island, Ill., assignor to Wickwire Spencer Aviation Corporation, New York, N. Y. Variable pitch propeller. 2,427,586; Sept. 16.
- Bierwirth, Rudolph A.: *See*—  
Brown, George H., and Bierwirth.
- Bieszki, Frank B., Chicago, Ill. Folding table. 2,433,315; Dec. 23.
- Bigelow, Frank E., Hillsboro, Ill. Lecithinated sugar. 2,430,553; Nov. 11.
- Bigelow, Julian H., New York, J. M. Harris, Long Island City, and M. N. Schweizer, Bayside, Long Island, assignors to Bulova Watch Company, New York, N. Y. Miniature electric meter. 2,422,714; June 24.
- Bigelow, Newell M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Black sulfur dyes and manufacturing the same. 2,418,816; Apr. 15.
- Bigelow, Roy S., assignor to Goodman Manufacturing Company, Chicago, Ill. Connecting means for shaker conveyer troughs. 2,414,710; Jan. 21.
- Bigelow-Sanford Carpet Co., Inc., assignee: *See*—  
Dow, James N.  
Jackson, Robert J.  
Reinhardt, Henry A.
- Biggar, Allan M., Arlington, Va., assignor to the United States of America, as represented by the Secretary of War. Detonator tester. 2,431,683; Dec. 2.
- Biggins, Edward R.: *See*—  
O'Brian, Maurice, and Biggins.
- Biggs, Bernard S., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Stabilization of cured polymers. 2,416,282; Feb. 25.
- Biggs, George A., assignor to The James Leffel & Co., Springfield, Ohio. Hydraulic turbine. 2,420,853; May 20.
- Bigos, Walter, Detroit, and E. T. Vincent, Ann Arbor, assignors to Continental Aviation & Engineering Corporation, Detroit, Mich. Oil pressure valve structure and vent. 2,433,085; Dec. 23.
- Bigné, Emile B., Los Angeles, Calif. Antenna. 2,419,311; Apr. 22.
- Bigus, George, Jr., Wilkes-Barre, Pa. Automatic brake for baby carriages. 2,430,629; Nov. 11.
- Bilan, John, Flint, Mich. Boiler. 2,428,905; Oct. 14.
- Biles, John L.: *See*—  
Petry, Theodor A., Lee, Biles, and Betts.
- Billig, Fred W., Jackson, Mich. Combined poker and tongs. 2,429,046; Oct. 14.
- Billig, Kurt, London, England. Reinforced concrete shell construction and manufacture thereof. 2,425,079; Aug. 5.
- Billings, Arthur W., Portland, Maine. Airplane propeller. 2,422,388; June 17.
- Billings, Bruce H., and W. L. Hyde, Cambridge, and E. E. Barr, North Woburn, assignors to Polaroid Corporation, Cambridge, Mass. Bolometer. 2,423,476; July 8.
- Billings, Charles A., assignee et al.: *See*—  
Browne, Paul W.
- Billman, Walter, Philadelphia, Pa. Electrical lock and indicator system. 2,427,040; Sept. 9.



- Billmeyer, Bruce R., assignor to Armstrong Cork Company, Lancaster, Pa. Closure. 2,431,303; Nov. 25.
- Billner, Karl P., Tampa, Fla. Reinforced concrete body. 2,414,011; Jan. 7.
- Bilodeau, Wilfred J., Windsor, Mass., assignor to General Electric Company. Insulating bushing. 2,427,184; Sept. 9.
- Bilofsky, Maxwell M., assignee: *See*—  
Warsher, Adolph.
- Bilyeu, Gerald I., assignor to The Foxboro Company, Foxboro, Mass. Bourdon tube variable resistance valve. 2,432,082; Dec. 9.
- Bimpson, Henry S., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Ejector. 2,432,651; Dec. 16.
- Bimpson, Henry S., West Allis, Wis., and E. J. Palmer, Washington, D. C., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Solar salt water distilling apparatus. 2,424,142; July 15.
- Binch, Arthur H., Lowdham, assignor to William Rhodes Limited, Nottingham, England. Pocket spring surfaces. 2,430,098; Nov. 4.
- Binckley, George S., deceased, by S. W. Binckley, executor, Los Angeles, Calif. Integrating linkage. 2,417,966; Mar. 25.
- Binckley, William, executor: *See*—  
Binckley, George S.
- Binda, Frederick J.: *See*—  
West, Cutler D., and Binda.
- Binda, Frederick J., assignor to Polaroid Corporation, Cambridge, Mass. Composite plastic sheet for use in the formation of light-polarizing images. 2,416,510; Feb. 25.
- Binder, Joseph F., Chicago, Ill. Device for retrieving spherical objects. 2,413,679; Jan. 7.
- Binder, Thomas W., Maplewood, N. J. Air conditioning. 2,419,477; Apr. 22.
- Binder, William O.: *See*—  
Franks, Russell, and Binder.
- Bindler, Jakob, and H. Schläpfer, assignors to J. R. Geigy A. G., Basel, Switzerland. Sulfuric acid esters and making same. 2,433,542; Dec. 30.
- Bingham, George H., Jr., Lincoln, assignor to Cambridge Rubber Company, Cambridge, Mass. Life-saving boat. 2,421,679; June 3.
- Bingham, James B., T. H. Herberg, and O. A. Holkesvig, Grand Forks, N. Dak. Beet harvester. 2,429,743; Oct. 28.
- Bingham's, Sam'l. Son Mfg. Co., assignee: *See*—  
Crews, Don E.
- Binkerd, Evan F.: *See*—  
Harwood, James, and Binkerd.
- Binkert, Roy E., assignee, et al.: *See*—  
Fisk, Edwin M.
- Binneweg, Abraham, Jr., Oakland, Calif. Mounted flat element radio tube. 2,419,757; Apr. 29.
- Binneweg, Abraham, Jr., Oakland, Calif. Assembly means for radio tubes. 2,431,020; Nov. 18.
- Binney, Joe G., New Douglas, Ill. Chocking means. 2,419,110; Apr. 15.
- Binnington, Donald S., Minneapolis, Minn., assignor to General Mills, Inc. Steam generator. 2,421,311; May 27.
- Binns, Frank: *See*—  
Glendinning, Edward, and Binns.
- Binns, William, Harrogate, England. Manufacture of sponge rubber. 2,426,430; Aug. 26.
- Binus, David J., assignor to The Weber Dental Manufacturing Company, Canton, Ohio. Dental chair and the like. 2,426,336; Aug. 26.
- Birch, George C. R., Raynes Park, assignor to B. & R. Patents Limited, London, England. Fluid pressure gauge. 2,427,249; Sept. 9.
- Birch, Harold W., Belmont, Mass. Cloth expander roll. 2,415,864; Feb. 18.
- Birch, Stanley F., and R. A. Lowry, Sunbury-on-Thames, assignors to Anglo-Iranian Oil Company, Limited, London, England. Recovery of hemimellitene. 2,419,247; Apr. 22.
- Birch, Stephen, Jr., Mahwah, N. J. Bag holder. 2,421,740; June 10.
- Birch, Thomas H., Wauwatosa, Wis. Initial quick charging valve for fluid pressure brakes. 2,425,591; Aug. 12.
- Birchfield, Roy R., Shreveport, La. Brake shoe. 2,414,687; Jan. 21.
- Bird, Arthur W., Sidecup, assignor to Brooks Appliance Company Limited, London, England. Truss fitting. 2,431,227; Nov. 18.
- Bird, Byron M., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Discharge device for the lower stratum component from fluid-pervious reciprocating stratifying tables. 2,426,337; Aug. 26.
- Bird, John L.: *See*—  
Halpert, Percy, Frische, Bird, and Esval.
- Bird Machine Company, assignee: *See*—  
Downes, Frank A.  
Small, Edward F.
- Bird, Paul G., Western Springs, assignor to National Aluminate Corporation, Chicago, Ill. Product and the prevention of foaming in steam boilers. 2,428,775; Oct. 14.
- Bird, Paul G., and A. L. Jacoby, Western Springs, assignors to National Aluminate Corporation, Chicago, Ill. Prevention of foaming in steam boilers. 2,428,776; Oct. 14.
- Bird & Son, Inc., assignee: *See*—  
Garner, Robert V.  
Miller, Harold F., Crowe, and Barker.  
Reynolds, Frank P.
- Birdman, Martin, Mesa, Ariz. Parachute canopy and method of making same. 2,429,385; Oct. 21.
- Birdsboro Steel Foundry and Machine Co., assignee: *See*—  
Japikse, Bertrand.  
Peterson, Edward T.  
Laussucq, Harry P. L., and Japikse.
- Birdseye, Clarence, assignor to Dehydration, Inc., Gloucester, Mass. Heated endless conveyor structure for dehydrating foods. 2,414,580; Jan. 21.
- Birdseye, Clarence, assignor to Dehydration, Inc., Gloucester, Mass. Dehydrating food by radiant energy and gas. 2,419,875; Apr. 29.
- Birdseye, Clarence, assignor to Dehydration, Inc., Gloucester, Mass. Dehydration apparatus having conveyors, agitators, radiant heaters, and gas circulating means. 2,419,876; Apr. 29.
- Birdseye, Clarence, assignor to Dehydration, Inc., Gloucester, Mass. Improving and preserving food products. 2,419,877; Apr. 29.
- Birkeland, Leigh F., Luke Field, Ariz. Ammunition. 2,433,334; Dec. 30.
- Birkenmaier, Theodore, assignor to W. N. Matthews Corporation, St. Louis, Mo. Electrical connector. 2,426,857; Sept. 2.
- Birkinshaw, John H., Pinner, and S. E. Michael, Croyden, assignors to Therapeutic Research Corporation of Great Britain Limited, London, England. Producing antibacterial agent. 2,417,584; Mar. 18.
- Birkland, Stellan: *See*—  
Jacobs, Samuel S., and Birkland.
- Birkland, Stellan, San Francisco, Calif., assignor to American Can Company, New York, N. Y. Method of and apparatus for vacuumizing containers. 2,415,409; Feb. 11.
- Birmann, Rudolph, Newtown, Pa., assignor, by mesne assignments, to Federal Reserve Bank of Philadelphia. Diffuser for centrifugal compressors. 2,419,669; Apr. 29.
- Birmann, Rudolph, Newtown, Pa., assignor, by mesne assignments, to Turbo Engineering Corporation. Regulation of combustion gas turbines arranged in series. 2,428,830; Oct. 14.
- Birmann, Rudolph, Newtown, Pa., assignor, by mesne assignments, to Turbo Engineering Corporation. Method and machine for generating rotors for elastic fluid mechanism. 2,431,604; Nov. 25.
- Birmingham, Edward, Berkeley, Calif. Knitting. 2,414,353; Jan. 14.
- Birnie, John U., assignee: *See*—  
Roach, Edward.
- Biro, Laszlo J., assignor, by mesne assignments, to "Eterpen" Sociedad Anonima Financiera, also known as Eterpen S. A., Buenos Aires, Argentina. Writing instrument. 2,413,904; Jan. 7.
- Biro, Laszlo J., assignor, by mesne assignments, to Eterpen S. A., Buenos Aires, Argentina, also known as "Eterpen" Sociedad Anonima Financiera. Writing paste. 2,416,145; Feb. 18.
- Biro, Laszlo J., assignor, by mesne assignments, to "Eterpen" Sociedad Anonima Financiera, also known as Eterpen S. A., Buenos Aires, Argentina. Writing instrument. 2,416,896; Mar. 4.
- Biro Manufacturing Company, The, assignee: *See*—  
Biro, Vincent G.
- Biro, Vincent G., Ottawa County, assignor to The Biro Manufacturing Company, Marblehead, Ohio. Cleaning unit for power meat cutters. 2,423,383; July 1.
- Birr, Rudolph G., Lombard, Ill., assignor to Steiner Sales Company, Salt Lake City, Utah. Dispensing apparatus. 2,417,731; Mar. 18.
- Birr, Rudolph G., Lombard, Ill., assignor to Steiner Sales Company, Salt Lake City, Utah. Dispensing cabinet structure. 2,425,915; Aug. 19.
- Birr, Rudolph G., Lombard, Ill., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet structure. 2,425,916; Aug. 19.
- Birss, Robert R.: *See*—  
Jones, Cyril E. P., and Birss.
- Birt, Dannie D., Guymon, Okla. Grain loader. 2,417,186; Mar. 11.
- Birtman Electric Company, assignee: *See*—  
French, Edward A.  
Howard, Frank S.  
Lanter, Clarence W.
- Bisbing, Charles F., Chicago, Ill. Emergency umbrella or protector. 2,430,042; Nov. 4.
- Bisch, James L., Valencia, Pa., assignor to Atlas Powder Company, Wilmington, Del. Positioning explosives in bore holes. 2,433,543; Dec. 30.
- Bischoff, Alfred F., Milford, Conn., assignor to General Electric Company. Pulse producing system. 2,420,516; May 13.
- Bishop, Audrey C., assignor of one-half to Lilas M. Blodgett, Seattle, Wash. Lady's garment. 2,427,041; Sept. 9.



- Bishop, Benjamin S. T., Shrewsbury, and F. A. Bicknell, assignors to Leland-Gifford Company, Worcester, Mass. Work control mechanism for machine tools. 2,420,296; May 13.
- Bishop, Benjamin S. T., Shrewsbury, and F. A. Bicknell, assignors to Leland-Gifford Company, Worcester, Mass. Tool control mechanism for machine tools. 2,426,139; Aug. 19.
- Bishop, Charles J., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Forming bearing liners. 2,423,868; July 15.
- Bishop, George A., Vancouver, British Columbia, Canada. Rivet heating pot. 2,419,878; Apr. 29.
- Bishop, John A., Woodside, N. Y., assignor to Johnson Research Corporation. Spring paper punch. 2,424,539; July 29.
- Bishop, Lyle, Los Angeles, Calif. Ventilated closure. 2,420,297; May 13.
- Bishop, Nathaniel, Fairfield, Conn., assignor to General Electric Company. Coaxial half-wave microwave antenna. 2,421,593; June 3.
- Bishop, Richard B.: *See*—  
Denton, William I., Bishop, Nygaard, and Noland.
- Bisbeborn, Merle C., Baltimore, Md., and A. G. Fox, Morristown, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Microwave radar directive antenna. 2,429,601; Oct. 28.
- Bissell Carpet Sweeper Company, assignee: *See*—  
Pullen, Fred W.
- Bisso, Nino, New York, and L. J. Gifford, Valley Stream, N. Y. Adjustable band. 2,417,289; Mar. 11.
- Bissout, Herbert A., Merchantville, N. J., and W. Y. Borresen, assignors to W. K. Mitchell & Company, Inc., Philadelphia, Pa. Apparatus for butt welding. 2,415,987; Feb. 18.
- Biszantz, Fred, assignor to The Galion Metallic Vault Company, Galion, Ohio. Closed hydraulic transmission apparatus with compensating means for unequal motor volumes. 2,422,389; June 17.
- Bitler, William P., Haverstraw, and L. Nicholl, Nyack, assignors to Kay-Fries Chemical, Inc., West Haverstraw, N. Y. Plasticizers. 2,433,645; Dec. 30.
- Bitney, Dewey H., assignor to Union Steel Products Company, Allion, Mich. Reinforce supporting structural unit. 2,428,137; Sept. 30.
- Bitonte, Joseph L.: *See*—  
Henry, Albert C., and Bitonte.
- Bitting, Charles D., Kenvil, N. J., and R. W. Lawrence, assignors to Hercules Powder Company, Wilmington, Del. Blasting explosive. 2,433,417; Dec. 30.
- Bitzer, Edmund C., Golden, assignor to Colorado Iron Works Company, Denver, Colo. Method and apparatus for heavy-media separation. 2,428,777; Oct. 14.
- Bitzer, Gottlob, Lincoln Park, assignor to Textile Machine Works, Wyomissing, Pa. Welt turning mechanism and turning welts. 2,431,160; Nov. 18.
- Bivans, Elbert L., Los Angeles, P. K. Beemer, Inglewood, and P. H. Montgomery, Los Angeles, Calif., assignors to Preco, Incorporated. Multiple pressure pump. 2,420,409; May 13.
- Bixby, Willard F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Continuously transforming a dispersion of a rubbery material into sheets. 2,424,648; July 29.
- Bixby, William H., assignor to D. R. Middleton and S. M. Hanley, doing business as Power Equipment Company, Detroit, Mich. Voltage regulation. 2,413,941; Jan. 7.
- Bixler, Alvin P., assignee: *See*—  
Vars, Ethan W.
- Bizjak, Stanley, Crivitz, Wis. Tractor. 2,421,867; June 10.
- Bjering, Olav, and R. K. Belnap, Jr., Toledo, Ohio, assignors to Owens-Illinois Glass Company. Machine for emptying and washing containers. 2,418,691; Apr. 8.
- Bjerke, Allan E.: *See*—  
Lappin, Arthur N., and Bjerke.
- Bjorklund, Arvid, Minneapolis, Minn. Garbage cutting and flushing device. 2,431,161; Nov. 18.
- Bjorndal, Magnus, assignee: *See*—  
Holmen, Torleif K.
- Black, Arthur P.: *See*—  
Restarski, Joseph S., and Black.
- Black, Benjamin, Bronx, N. Y. Key holder. 2,418,330; Apr. 1.
- Black & Decker Electric Company, The, assignee: *See*—  
Duckwitz, Fred.
- Black and Decker Manufacturing Company, The, assignee: *See*—  
Decker, Alonzo G.
- Black, Eric A., Red Bank, N. J., assignor to the Government of the United States of America, as represented by the Secretary of War. Screen. 2,424,219; July 22.
- Black, Howard C., and W. F. Bollens, Chicago, Ill., assignors to Industrial Patents Corporation, Chicago, Ill. Refining fats and oils. 2,416,146; Feb. 18.
- Black, James B., and W. F. Shurts, Rockford, Ill., assignors to Twin Disc Clutch Company, Racine, Wis. Aerodynamic brake. 2,415,670; Feb. 11.
- Black, James J., assignor to The Trailmobile Company, Cincinnati, Ohio. Tire carrier. 2,420,854; May 20.
- Black, James J., assignor to The Trailmobile Company, Cincinnati, Ohio. Spring suspension for tandem axle vehicles. 2,424,141; July 15.
- Black, Lloyd V.: *See*—  
Minton, Gerald Z., and Black.
- Black, Mike, assignor to H. H. Nieberding, Cincinnati, Ohio. Milk stool. 2,425,413; Aug. 12.
- Black, Norman F., and L. E. Pirkle, Baton Rouge, La., assignor to Standard Oil Development Company. Butadiene extraction. 2,430,972; Nov. 18.
- Black, Robert, Jr., South Orange, and F. F. Romanow, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Submarine signal detector or receiver. 2,424,549; July 29.
- Black, Robert, Jr., South Orange, F. F. Romanow, Summit, and O. A. Shann, Short Hills, N. J., assignors to Bell Telephone Laboratories, Incorporated. Hydrophone. 2,432,083; Dec. 9.
- Black, Rodney E.: *See*—  
Holt, Matthew L., and Black.
- Black, Zizz, San Francisco, Calif. Display case. 2,419,624; Apr. 29.
- Blackburn Aircraft Limited, assignee: *See*—  
Hall, Eric V.
- Blackburn, Billee O.: *See*—  
Hatch, Lewis F., Adelson, and Blackburn.
- Blackburn, Ernest C., and E. S., Los Angeles, Calif. Reciprocating jaw nut-cracking machine. 2,432,652; Dec. 16.
- Blackburn, Ernest S.: *See*—  
Blackburn, Ernest C. and E. S.
- Blackburn, Herbert: *See*—  
Alleva, William, and Blackburn.
- Blackburn, James K., Omaha, Nebr. Conservation flag. 2,413,905; Jan. 7.
- Blackburn, John F.: *See*—  
Baker, Morton H., and Blackburn.
- Blackburn, John L., East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Internal-fault selective reclosing-relays. 2,416,677; Mar. 4.
- Blackburn, Joseph B.: *See*—  
Angel, Charles M., and Blackburn.
- Blackburn, Joseph B., Richmond, Va., and C. M. Angel, Huntington, W. Va. Load transmitting mechanism for railway vehicles axles. 2,431,364; Nov. 25.
- Blackburn, Newell F., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Tin-plating process. 2,432,718; Dec. 16.
- Blackford, Ammon M., Jr., Belle Fourche, S. Dak. Sheep catcher. 2,428,734; Oct. 7.
- Blackhawk Mfg. Co., assignee: *See*—  
Brumder, Herbert P., and Mandl.
- Blackinton, George W., and J. J. Calhoun, assignors to The Budd Company, Philadelphia, Pa. Ogive mounting means for projectiles. 2,413,680; Jan. 7.
- Blackinton, George W., and J. J. Calhoun, Philadelphia, Pa., assignors, by mesne assignments, to United States of America. Projectile. 2,427,989; Sept. 23.
- Blackley, James L., and W. P. V. Ross, assignors to The Duplex Printing Press Company, Battle Creek, Mich. Double adjustment for plate cylinders. 2,425,914; Aug. 19.
- Blackman, Stanley, Brooklyn, N. Y. Cleaning capsules and the like. 2,425,984; Aug. 19.
- Blackmore, Robert B., Casper, Wyo. Head gate for irrigation ditches. 2,415,332; Feb. 4.
- Blackmore, William, Cleveland Heights, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Seal for journal boxes. 2,415,574; Feb. 11.
- Blackstone & Company Limited, assignee: *See*—  
Hallewell, George.
- Blackstone Manufacturing Co., Inc., assignee: *See*—  
Kline, Donald, and Plett.
- Blackwell, Sanford J., St. Louis, Mo. Bottle crate. 2,416,147; Feb. 18.
- Blackwell, Sanford J., St. Louis, Mo. Receptacle carrier. 2,429,917; Oct. 28.
- Blackwood, Allister C.: *See*—  
Neish, Arthur C., Ledingham, and Blackwood.
- Blackwood, Melville J.: *See*—  
Barnard, Kenneth H., Balsbaugh, and Blackwood.
- Blades, Archie L., assignee: *See*—  
Abernathy, Clyde G.
- Blades, Blythe O., Los Angeles, Calif. Garment hanger. 2,419,879; Apr. 29.
- Blair, Alexander: *See*—  
Pinder, Joseph W., and Blair.
- Blair, Charles M., Jr., Webster Groves, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Process for breaking petroleum emulsions. 2,422,177; June 17.
- Blair, Charles M., Jr., Webster Groves, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Process for breaking petroleum emulsions. 2,422,822; June 24.
- Blair, Charles M., Jr., Webster Groves, Mo., assignor to the Petrolite Corporation, Ltd., Wilmington, Del. Amino-ester compounds. 2,423,365; July 1.
- Blair, Charles M., Jr., Webster Groves, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Acylated amines. 2,426,338; Aug. 26.
- Blair, Charles M., Jr., St. Louis, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Lubricating oils. 2,422,881; June 24.
- Blair, Charles M., Jr., Webster Groves, and D. M. Schulz, St. Louis, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,423,364; July 1.



- Blair, Gerhardt, New York, N. Y. Snap switch. 2,418,965; Apr. 15.
- Blair, Harold J., Pleasant Ridge, assignor to The Gear Grinding Machine Company, Hamtramck, Mich. Two-way overrunning clutch. 2,427,120; Sept. 9.
- Blair, Lillian S., Memphis, Tenn. Costume. 2,423,170; July 1.
- Blair Manufacturing Company, assignee: *See*—Wells, Fred W.  
Wells, Warren.
- Blair, Royer R., Scotch Plains, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrooptical control system. 2,432,084; Dec. 9.
- Blake, Edward S., and K. L. Godfrey, Nitro, W. Va., assignors to Monsanto Chemical Company, St. Louis, Mo. 2,422,769; June 24.
- Blake, Foster B., Mountain View, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic toll ticketing alarm system. 2,426,981; Sept. 9.
- Blake, Harold D., and W. J. Geiger, Cleveland Heights, Ohio, assignors to General Electric Company. Photoflash lamp. 2,431,162; Nov. 18.
- Blake, Ralph K., Parlin, W. A. Stanton, New Brunswick, and F. Schulze, Westfield, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Silver halide photographic emulsions sensitized by polyalkylene glycols. 2,423,549; July 8.
- Blake, Robert E., Paul Grange, and W. L. Thomas, Mason City, Iowa. Sectional duct means having a fan for removing air from an enclosure. 2,433,544; Dec. 30.
- Blake, William F., Chicago, Ill. Jar opening tool. 2,422,715; June 24.
- Blakely, Dudley M., Bloomfield Hills, Mich. Manufacturing boats. 2,425,507; Aug. 12.
- Blakeman, Donald W.: *See*—Gibson, Elgen B., Jr., and Blakeman.
- Blakemore, John H., Chicago, Ill. Combined arc welding and chipping tool. 2,428,138; Sept. 30.
- Blakeney, Cyrus J., Charlotte, N. C. Safety razor. 2,415,273; Feb. 4.
- Blakeslee, Clinton A., assignor to The Bristol Company, Waterbury, Conn. Plural magnitude recorder. 2,425,080; Aug. 5.
- Blanchard, Benjamin B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Method of and machine for lasting shoes. 2,415,410; Feb. 11.
- Blanchard, Francis W., assignor to Hewitt Rubber Corporation, Buffalo, N. Y. Manufacture of flexible containers. 2,426,384; Aug. 26.
- Blanchard, Fred P., and S. Feinman, New York, N. Y. Foldable back rest. 2,429,795; Oct. 28.
- Blanchard, Joseph H., Chicago, Ill. Home-style cigarette making device. 2,420,459; May 13.
- Blanchard, Lloyd H., Worcester, Mass. Fitting teeth. 2,419,248; Apr. 22.
- Blanchard, Richard, Gardner, Mass. Centripetal-centrifugal pump. 2,429,978; Nov. 4.
- Blanchard, William A., Millbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Bobbin delivery cradle for weft replenishing looms. 2,426,759; Sept. 2.
- Blank, Richard, Baltimore, Md. Window structure. 2,416,511; Feb. 25.
- Bland, Edward F., Seattle, Wash. Aircraft. 2,431,536; Nov. 25.
- Bland, James R., Eastport, Md., assignor to Keuffel & Esser Company, Hoboken, N. J. Slide rule. 2,422,649; June 17.
- Bland, Reginald and R. B., Pasadena, Calif. Fishing reel mechanism. 2,417,732; Mar. 18.
- Bland, Reginald B.: *See*—Bland, Reginald and R. B.
- Blanding, Forrest H., Elizabeth, N. J., assignor to Standard Oil Development Company. Contacting liquids with gaseous fluids in the presence of solid particles. 2,431,455; Nov. 25.
- Blaner, John, Sharon, Pa. Christmas tree stand. 2,421,140; May 27.
- Blankenship, Benjamin A., Middletown, Ohio. Illuminated cross. 2,427,655; Sept. 23.
- Blankner, William, Lakewood, Ohio. Pavement repairing and the like. 2,420,410; May 13.
- Blaw-Knox Company, assignee: *See*—Meisenburg, Karl.  
Thomas, William A.
- Blaydes, Frederick T., Canton, Ill., assignor to International Harvester Company. Peanut harvester. 2,417,905; Mar. 25.
- Blazek, William J., Cleveland Heights, assignor to Lempro Products, Inc., Bedford, Ohio. Metal removing tool. 2,432,855; Dec. 16.
- Blazer, Maurice: *See*—Nisenon, Jules, and Blazer.
- Blazey, Lawrence E., Bay Village, Ohio, assignor, by mesne assignments, to Office Furniture & Fixtures, Inc., Washington, D. C. Bell caster. 2,426,664; Sept. 2.
- Bleakney, Robert M., and E. J. Workman, Albuquerque, N. Mex., assignors to the United States of America, as represented by the Secretary of the Navy. Electrical switch. 2,420,028; May 6.
- Bleam, Edgar W., and J. Y. Albertson, Willow Grove, assignors to Stokes and Smith Company, Philadelphia, Pa. System for filling containers. 2,432,373; Dec. 9.
- Blendon, Stanley, Bradley Beach, N. J. Parachute load release. 2,416,568; Feb. 25.
- Blessing, Gregory W., Moorestown, N. J., assignor to Radio Corporation of America. Composite structure and making the same. 2,423,869; July 15.
- Blessing, Gregory W., Moorestown, N. J., assignor to Radio Corporation of America. Composite sheet metal structure. 2,423,870; July 15.
- Blessing, Harry A.: *See*—Liebmann, August G.
- Bletcher, James H., assignee, et al.: *See*—Bucknell, Ernest H., and Bletcher.
- Bletcher, Pearl W., assignee, et al.: *See*—Bucknell, Ernest H., and Bletcher.
- Bletcher, Ralph E.: *See*—Bucknell, Ernest H., and Bletcher.
- Bletz, Edward: *See*—Clark, Earl K., and Bletz.
- Blewett, John, assignor to The Murray Company, Dallas, Tex. Method and system of conditioning fiber. 2,421,477; June 3.
- Blewett, John, assignor to The Murray Company, Dallas, Tex. Fiber conditioner. 2,421,478; June 3.
- Blewett, John P., Schenectady, N. Y., assignor to General Electric Company. Magnetron. 2,428,193; Sept. 30.
- Blewett, John P., Scotia, N. Y., assignor to General Electric Company. Magnetron. 2,428,612; Oct. 7.
- Blewett, Robert N., assignee: *See*—Blewett, Stephen E., and Gaffney.
- Blewett, Stephen E., and T. A. Gaffney, Pasadena, Calif., assignors of one-half to S. N. and R. N. Blewett. Illuminated weather map. 2,417,043; Mar. 11.
- Blewett, Stephen N., assignee, et al.: *See*—Blewett, Stephen E., and Gaffney.
- Bley, Fred M., Glenview, Ill. Bearing structure. 2,418,219; Apr. 1.
- Bley, Rudolph S., Milligan College, Tenn., assignor to North American Rayon Corporation, New York, N. Y. Viscose spinning solutions. 2,432,085; Dec. 9.
- Boyle, August W., Palo Alto, Calif. Elevator door lock. 2,428,063; Sept. 30.
- Blicke, Frederick F., Washtenaw County, assignor to Regents of the University of Michigan, Ann Arbor, Mich. Basic-alkyl esters and their salts. 2,415,079; Feb. 4.
- Blicke, Frederick F., assignor to The Regents of the University of Michigan, Ann Arbor, Mich. Thiophene compounds and methods of obtaining the same. 2,425,721; Aug. 19.
- Blicke, Frederick F., assignor to The Regents of the University of Michigan, Ann Arbor, Mich. Thiophene compounds and methods for obtaining the same. 2,425,722; Aug. 19.
- Blicke, Frederick F., assignor to The Regents of the University of Michigan, Ann Arbor, Mich. Thiophene compounds and methods for obtaining the same. 2,425,723; Aug. 19.
- Blinkley Mining Co., assignee, et al.: *See*—Hair, Richard T., and Ball.
- Bliss, E. W., Company, assignee: *See*—Hatch, Meredith R., Saul, and O'Connor.  
Klocke, William.  
Patrick, Isaac.  
Rode, Friedrich J.
- Bliss, Harvey N., Windsor, assignor to Veeder-Root Incorporated, Hartford, Conn. Registering mechanism. 2,420,808; May 20.
- Bliss, Harvey N., Windsor, assignor to Veeder-Root Incorporated, Hartford, Conn. Remote controlled electrical indicator. 2,426,079; Aug. 19.
- Bliss, Warren H., Orono, Maine, assignor to Radio Corporation of America. Modified sweep circuit for cathode-ray tubes. 2,428,928; Oct. 14.
- Bliss, Warren H., Riverhead, N. Y., assignor to Radio Corporation of America. Telegraph secrecy system. 2,432,188; Dec. 9.
- Bliss, Warren H., Orono, Maine, and J. E. Smith, Jackson Heights, N. Y., assignors to Radio Corporation of America. Signal detection system. 2,418,750; Apr. 8.
- Blizard, John, Garden City, assignor to Foster Wheeler Corporation, New York, N. Y. Vapor generator. 2,422,178; June 17.
- Blizard, John, Garden City, assignor to Foster Wheeler Corporation, New York, N. Y. Steam generator. 2,430,446; Nov. 11.
- Bloch, Alfred, Wembley, England, assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Tracking tunable system. 2,425,454; Aug. 12.
- Bloch, Edith: *See*—Schwenk, Erwin, Bloch, and Whitman.
- Bloch, Godfrey, New York, N. Y. Textile fabric and producing same. 2,423,366; July 1.
- Bloch, Herman S.: *See*—Thomas, Charles L., and Bloch.
- Bloch, Herman S., assignor to Universal Oil Products Company, Chicago, Ill. Alkylation of aromatic hydrocarbons. 2,426,665; Sept. 2.
- Bloch, Julius, San Francisco, Calif., assignor to Brooks Manufacturing Corporation. Gun-rod kit. 2,425,455; Aug. 12.



- Bloch, Meyer J., Lynn, Mass. Upholstery guy wire. 2,433,418; Dec. 30.
- Blocher, Emmett S., Muncie, Ind. Sterilizer for surgical instruments. 2,417,626; Mar. 18.
- Block, Leslie A., deceased, Rochester, N. Y.; W. A. Block, administrator. Making soap cake having a desired insignia. 2,423,435; July 8.
- Block, Leslie A., deceased, Rochester, N. Y.; W. A. Block, administrator. Apparatus for making soap cakes having desired insignia. 2,423,576; July 8.
- Block, Richard J., Scarsdale, N. Y., assignor to C. M. Armstrong, Inc. Amino acid separation. 2,429,666; Oct. 28.
- Block, Walter W., Kenosha, Wis. Curtain stretcher. 2,429,256; Oct. 21.
- Block, Walter W., assignor to Quaker Foundation, Inc., Kenosha, Wis. Collapsible stand. 2,415,784; Feb. 11.
- Block, Wilton A., administrator: *See*—Block, Leslie A.
- Blocker, Andrew G., St. Louis, Mo. Jar grip attachment for containers. 2,428,260; Sept. 30.
- Blockson Chemical Co., assignee: *See*—King, Charles S.
- Blodgett, Edward D., Haddonfield, N. J., assignor to Radio Corporation of America. Radio compass. 2,422,072; June 10.
- Blodgett, Lilas M., assignee: *See*—Bishop, Audrey C.
- Blom, Carl J., San Marino, assignor to Byron Jackson Co., Vernon, Calif. Submersible motorpump. 2,423,436; July 8.
- Blom, Carl J., San Marino, assignor to Byron Jackson Co., Vernon, Calif. Motor pump unit. 2,423,825; July 15.
- Blom, Carl J., San Marino, assignor to Byron Jackson Co., Vernon, Calif. Pump and shaft seal therefor. 2,427,656; Sept. 23.
- Blom, Otto F., assignor to American Can Company, New York, N. Y. Frangible closure for containers. 2,428,354; Oct. 7.
- Blomberg, Knut H., Appelviken, and R. Å. G. Lysell, Midsommarkransen, assignors to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Telephone handset. 2,419,388; Apr. 22.
- Blomberg, Lars E. J., assignor to Aktiebolaget Latex, Stockholm, Sweden. Measuring apparatus. 2,414,354; Jan. 14.
- Blomberg, Otto J., Chicago, assignor, by mesne assignments, of one-half to K. C. Barnett, Glencoe, Ill. Clutch wear signal. 2,425,985; Aug. 19.
- Blomgren, Oscar C., Evanston, Ill. Microscope. 2,417,044; Mar. 11.
- Bloodworth, Thomas H., Elm Grove, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electrode feed motor control system. 2,427,587; Sept. 16.
- Bloom, Albert, Clinton, N. J., and V. Niederl, Brooklyn, N. Y., assignors to Reed & Carnrick, Jersey City, N. J. Dialkyl-dihydroxy-diphenyl-hexadienes and their derivatives. 2,419,516; Apr. 22.
- Bloom, Merle W., Maywood, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Spring tine mounting. 2,432,653; Dec. 16.
- Bloom, Mortimer C., Newton Highlands, Mass., assignor, by mesne assignments, to Federal Telephone and Radio Corporation, New York, N. Y. Electrodeposition of selenium. 2,414,438; Jan. 21.
- Bloom, Mortimer C., Newton Highlands, Mass., assignor, by mesne assignments, to Federal Telephone and Radio Corporation, New York, N. Y. Selenium coating by immersion. 2,426,173; Aug. 26.
- Bloom, Ralph, Jr., and E. N. Klemgard, U. S. Navy, Washington, D. C., and B. Ronay and R. W. Miller, Annapolis, Md. Detecting flaws in metal articles. 2,420,646; May 20.
- Bloom, Samuel, New York, N. Y. Making shoulder pads. 2,425,227; Aug. 5.
- Bloomer Bros. Company, assignee: *See*—Inman, William H.
- Bloomfield, John J., Burbank, Calif., assignor, by mesne assignments, to Lockheed Aircraft Corporation. Power transmission. 2,429,119; Oct. 14.
- Bloomfield, Samuel, Wichita, Kans., assignor to C. E. Hovey, trustee, Kansas City, Mo. Key indicator. 2,432,498; Dec. 16.
- Bloomfield, Samuel, Wichita, Kans., and R. S. Wallach, Madison, N. J.; said Wallach assignor to said Bloomfield. Lock nut. 2,425,228; Aug. 5.
- Bloomfield Tool Corporation, assignee: *See*—Noe, Harold C.
- Bloomingburg, Harold L., Warwick, R. I., assignor to Lincoln Machine Co. Inc. Work supporting attachment for grinding machines. 2,414,285; Jan. 14.
- Bloore, Robert B., Newcastle-under-Lyme, assignor to Swinnerton's Limited Vulcan Pottery, Stoke-on-Trent, Stafford, England. Drying stove comprising relatively rotatable annular walls. 2,424,213; July 22.
- Bloss, Albert G., Kenova, W. Va. Feed-water control and alarm for steam boilers. 2,414,629; Jan. 21.
- Bloss, Benjamin F., assignor of fifty per cent to L. Austin, Chillicothe, Mo. Sign holder and support. 2,421,741; June 10.
- Blosser, Charles R., Shelby, and E. K. Clark, Mansfield, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Thermostatic switch. 2,427,946; Sept. 23.
- Blossom Products Corporation, assignee: *See*—Dickno, Alexander.
- Wytyovich, Stanley A.
- Blouin, Ernest J.: *See*—Attridge, Richard R., and Blouin.
- Blount, Eugene A., Sr., Athens, Ga. Retort, tank, or like container. 2,420,411; May 13.
- Blout, Elkan R., Cambridge, and R. S. Corley, Boston, assignors to Polaroid Corporation, Cambridge, Mass. Sulfonfyl dinaphthylmethanes. 2,431,909; Dec. 2.
- Blout, Elkan R., Cambridge, and R. S. Corley, Boston, assignors to Polaroid Corporation, Cambridge, Mass. N-naphthyl acetamidomethyl naphthols. 2,431,910; Dec. 2.
- Blout, Elkan R., Cambridge, and R. S. Corley, Boston, assignors to Polaroid Corporation, Cambridge, Mass. Amido naphthol ethers. 2,431,911; Dec. 2.
- Blout, Elkan R., Cambridge, and R. S. Corley, Boston, assignors to Polaroid Corporation, Cambridge, Mass. Sulfonfyl naphthols. 2,431,912; Dec. 2.
- Blowers, Arthur, Fort Plain, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Thread cutter for sewing machines. 2,423,001; June 24.
- Bludworth, Erskine K., Dallas, Tex. Soap container. 2,414,711; Jan. 21.
- Bludworth, Joseph E., and D. P. Easter, Cumberland, Md., assignors to Celanese Corporation of America. Acetal compounds. 2,421,770; June 10.
- Bludworth, Joseph E., and C. Hutson, Cumberland, Md., assignors to Celanese Corporation of America. Preparation of filaments. 2,425,782; Aug. 19.
- Bludworth, Joseph E., and D. P. Easter, Cumberland, Md., assignors to Celanese Corporation of America. 1-methylcyclohexyl-cyclohexyl carbinol diacetate. 2,426,162; Aug. 26.
- Bludworth, Joseph E., and M. O. Robeson, Corpus Christi, Tex., assignors to Celanese Corporation of America. Production of butadiene. 2,427,704; Sept. 23.
- Blum, Albert J., Maplewood, assignor to Mt. Vernon Farm Dairy, Pittstown, N. J. Cooling apparatus. 2,424,792; July 29.
- Blum, Chase, Cincinnati, Ohio. Door control apparatus. 2,422,770; June 24.
- Blum, Chase, Cincinnati, Ohio. Door fastener. 2,422,771; June 24.
- Blum, Ferdinand H., New York, N. Y. Crutch attachment. 2,423,635; July 8.
- Blum, Louis E., Jr., assignor to Breeze Corporations, Inc., Newark, N. J. Pin setting machine. 2,427,705; Sept. 23.
- Blume, Paul W., G. A. Thomas, and G. Baillio, assignors to Niagara Alkali Company, Niagara Falls, N. Y. Chlorination of phthalic anhydride. 2,429,985; Nov. 4.
- Blumenfeld, Samuel, assignor to Clothing Devices, Inc., Detroit, Mich. Pressing machine attachment. 2,426,431; Aug. 26.
- Blumenthal, Eugene: *See*—Osipow, Lloyd I., and Blumenthal.
- Blumenthal, Sol: *See*—Smith, Cleveland S., Jr., and Blumenthal.
- Blumlein, Alan D.: *See*—Browne, Cecil O., and Blumlein.
- Cork, Edward C., and Blumlein.
- Blumlein, Alan D., deceased, Ealing, London, by D. Blumlein, executrix, Lanherne, Lescudjack, Penzance, Cornwall, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Thermionic valve oscillator with positive and negative feedback. 2,427,491; Sept. 16.
- Blumlein, Alan D., Ealing, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Radio reflection direction and distance determining system. 2,433,681; Dec. 30.
- Blumlein, Doreen, executrix: *See*—Blumlein, Alan D.
- Browne, Cecil O., and Blumlein.
- Bly, John P.: *See*—Marsh, John, and Bly.
- Blyler, Lee L., Melrose, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Adhesively joining materials. 2,427,519; Sept. 16.
- Blyler, Lee L., Spotswood, J. W. Clough, Parlin, C. W. Hawley, New Brunswick, and E. C. Pitman, Red Bank, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyvinyl resin adhesive composition, plywood, and making plywood. 2,419,880; Apr. 29.
- Blythe, Harold J.: *See*—Martin, Walter R., Linder, and Blythe.
- Boak, Willis E., Burton, Ohio, assignor to The American Steel and Wire Company of New Jersey. Coated nail. 2,423,171; July 1.
- Boake, A., Roberts & Company Limited, assignee: *See*—Edwards, Lawrence J.
- Boardman, Edward M., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone call-indicating facilities. 2,428,007; Sept. 30.



- Boardman, Harry C., Chicago, Ill., assignor to Chicago Bridge & Iron Company. Support for spherical container. 2,417,053; Mar. 11.
- Boardman, Harry C., Chicago, Ill., assignor to Chicago Bridge & Iron Company. Storage vessel. 2,433,385; Dec. 30.
- Boardman, Harry D., assignee: *See*—  
Merriman, Henry H.
- Boardman, Harry D., trustee, assignee: *See*—  
Jenkins, Charles R.
- Boatright, Robert G., Jr.: *See*—  
Buell, Charles K., and Boatright.
- Bobb, Lloyd J., Glenside, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Deflection signal generator for polar scanning of cathode-ray tubes. 2,421,312; May 27.
- Bobeldyk, John M., Inwood, Iowa. Easy drive sweep. 2,424,014; July 15.
- Bobrow, Edwin N., East Orange, N. J., assignor to Radio Corporation of America. Material for getting electron discharge devices. 2,421,984; June 10.
- Bobst, Henri, Lausanne, Switzerland. Blank feeding means. 2,418,065; Mar. 25.
- Bobst, Henri, Lausanne, Switzerland. Sheet registering means. 2,428,769; Oct. 14.
- Bocchino, Ernest, Clifton, N. J. Turning and folding meat roast rack. 2,421,922; June 10.
- Bochet, Aristide, La Minaudier, Misy sur Yonne par Villeneuve la Guyard, France. Tile. 2,419,005; Apr. 15.
- Bocji Corporation, assignee: *See*—  
Lang, Joseph C.
- Bock Corporation, assignee: *See*—  
Bock, Oscar L.
- Bock, Louis H.: *See*—  
Hager, Onslow B., and Bock.
- Bock, Morris: *See*—  
Haseltine, Nathaniel G., and Bock.
- Bock, Oscar L., assignor to Bock Corporation, Madison, Wis. Ignition system for pot-type oil burners. 2,431,456; Nov. 25.
- Bockius, Walter A., Glenview, Ill. Metallic member for joining wooden elements in demountable interlocking relation. 2,416,371; Feb. 25.
- Bockrath, George E., Long Beach, Calif. Aircraft control. 2,428,194; Sept. 30.
- Boddy, Edward J., London, assignor to The Fairey Aviation Company Limited, Hayes, Middlesex, England. Apparatus for flanging and curving metal strips. 2,420,064; May 6.
- Bodendieck, Henry W., Taylorville, Ill. Method and apparatus for wrapping armor wire on energized conductors. 2,414,136; Jan. 14.
- Bodin, George, assignor to Goodman Manufacturing Company, Chicago, Ill. Kerf-cutting machine. 2,424,911; July 29.
- Bodmer, Ernest, Geneva, Switzerland. Device for automatic lathe. 2,419,704; Apr. 29.
- Boeckeler, B. Clark, assignee, et al.: *See*—  
Obey, James H.
- Boeckeler, Clark B., assignee et al.: *See*—  
Obey, James H.
- Boecking, Ewald, Great Kills, assignor to Manufacturers Machine & Tool Co., Inc., Mount Vernon, N. Y. Motion-picture projector. 2,429,918; Oct. 28.
- Boegner, Etienne M., New York, N. Y. Ticket strip. 2,430,209; Nov. 4.
- Boeh, Bert C., Caldwell, Idaho. Hand truck. 2,415,988; Feb. 18.
- Boehm, Robert M., Laurel, Miss., and A. A. Ladon, Cleveland, Ohio, assignors to Masonite Corporation, Laurel, Miss. Method and apparatus for bending sheet material. 2,420,119; May 6.
- Boehm, Robert M., Laurel, Miss., H. E. Hall, Lyle, Tenn., and J. A. MacDonald, Rutherford, N. J., assignors to Masonite Corporation, Laurel, Miss. Preparation of clarified sugar solutions for fermentation, etc. 2,421,985; June 10.
- Boehm, Robert M., Laurel, Miss., and H. E. Hall, Lyle, Tenn., assignors to Masonite Corporation, Laurel, Miss. Preparation of clarified sugar solutions. 2,431,163; Nov. 18.
- Boehnke, Hugo V.: *See*—  
Wiken, Christy A., and Boehnke.
- Boeing Aircraft Company, assignee: *See*—  
Becker, Henry J.  
Cooper, James B., and Jepson.  
Jepson, Alfred B., and Cooper.  
Pierce, Lyle.  
Strandberg, Charles H.  
Warden, Clyde A.  
Weikel, Raymond C.  
Wiberg, Walter R.  
Wilkes, Wesley H.
- Boeing Airplane Company, Wichita Division, assignee: *See*—  
Glass, Mansfield D., Dalrymple, and Halsted.
- Boemanns, Herman J., Raleigh, N. C. Hat form retainer and support. 2,426,339; Aug. 26.
- Boese, Albert B., Jr., Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Acetylation of  $\beta$ -ketonic compounds. 2,432,499; Dec. 16.
- Boestad, Gustav K. W., Lidings, Sweden, assignor, by mesne assignments, to J. C. Marble, L. M. Merrill, and P. H. Batten. Turbine blade. 2,429,215; Oct. 21.
- Bogart, Fred H., South Euclid, assignor to The Warner & Swasey Company, Cleveland, Ohio. Chuck electric motor control. 2,420,855; May 20.
- Bogen, John S., and H. A. Hulsberg, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Apparatus for testing prime movers. 2,414,356; Jan. 14.
- Boggs, Jesse K., Wilmington, Del., and G. H. Sullivan, assignors to Rapinwax Paper Company, Minneapolis, Minn. Greaseproof paper. 2,416,734; Mar. 4.
- Boghossian, William H., Forest Hills, and H. G. Och, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Target azimuth device. 2,432,504; Dec. 16.
- Bogk, John E., Kansas City, Kans., assignor to Phillips Petroleum Company. Apparatus for heating oils. 2,415,726; Feb. 11.
- Bogoslowsky, Boris, Jackson Heights, N. Y. Method and apparatus for making coffee infusions. 2,413,687; Jan. 7.
- Bogoslowsky, Boris, Jackson Heights, N. Y. Making plastic articles. 2,418,155; Apr. 1.
- Bogoslowsky, Boris, Jackson Heights, N. Y. Apparatus for making coffee infusions. 2,422,944; June 24.
- Bogoslowsky, Boris, Jackson Heights, N. Y. Apparatus for making convolute wound tubing from sheet material. 2,424,540; July 29.
- Bogoslowsky, Boris, Jackson Heights, N. Y. Collapsible tube. 2,428,261; Sept. 30.
- Bogoslowsky, Boris, Jackson Heights, N. Y. Method and apparatus for making end closures for tubular containers. 2,431,537; Nov. 25.
- Bogoslowsky, Boris, Jackson Heights, assignor to H. W. Orvis, New York, N. Y. Pump. 2,414,355; Jan. 14.
- Bogue, Leonard E.: *See*—  
Adair, Paul F., and Bogue.
- Bohaby, Edward J., Berwyn, and H. C. Grupp, Western Springs, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Assembling apparatus. 2,428,958; Oct. 14.
- Bohall, Earle C., Oklahoma City, Okla., and W. R. Bohall, Seattle, Wash. Hydraulic pulsator transmission and control system. 2,417,232; Mar. 11.
- Bohall, Wallace R.: *See*—  
Bohall, Earle C. and W. R.
- Bohannon, Robert S., Birmingham, Ala., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 2,430,702; Nov. 11.
- Bohannon, William A., Uniondale, N. Y., assignor to Republic Aviation Corporation. Synchronization tester. 2,425,081; Aug. 5.
- Bohm, Daniel, assignor to Mullins Manufacturing Corporation, Salem, Ohio. Method and apparatus for forming the rims of cylindrical shells. 2,425,986; Aug. 19.
- Bohm, Joseph: *See*—  
Gardner, Ralph D., and Bohm.
- Bohman, David L., Ashland, Mass., assignor to Telechron Inc. Alarm clock and switch. 2,421,986; June 10.
- Bohmer, Alois, Avon, Minn. Folding table and seat unit. 2,427,121; Sept. 9.
- Bohmer, Clarence I., assignor to The Jaeger Machine Company, Columbus, Ohio. Drive mechanism for concrete mixers. 2,415,989; Feb. 18.
- Bohn Aluminum & Brass Corporation, assignee: *See*—  
Bishop, Charles J.  
Hickman, Charles E.  
Look, Henry J.
- Bohn, Donald I., Pittsburgh, Pa. Ice cube dispenser. 2,422,772; June 24.
- Bohn, Jacob L.: *See*—  
Nadig, Francis H., and Bohn.
- Bohnengel, Andrew J., deceased, Toledo, Ohio; A. M. Streicher, executor, and H. B. Bohnengel, executrix, assignors to H. B. Bohnengel. Measuring tape feed. 2,425,724; Aug. 19.
- Bohnengel, Harriet B., executrix, assignee: *See*—  
Bohnengel, Andrew J.
- Boho, Mitchell J., Brentwood, assignor to J. M. Hopwood, Mount Lebanon, Pa. Coal feed and air flow regulating system for coal pulverizing mills. 2,419,436; Apr. 22.
- Boice, William B., Toledo, Ohio. Endless band tool. 2,431,605; Nov. 25.
- Boileau, Arthur H., Cedar Rapids, Iowa, assignor to Cherry-Burrell Corporation, Chicago, Ill. Resilient churn support. 2,419,814; Apr. 29.
- Boiler Engineering & Supply Co., assignee: *See*—  
Burke, Robert F.
- Boisseau, Alexander C.: *See*—  
Barcus, George L., and Boisseau.  
Gayer, John D., Frank, and Boisseau.  
Thumim, Carl, and Boisseau.
- Boisselier, Earl D., Glenn Ellyn, assignor to Sears, Roebuck and Co., Chicago, Ill. Stepladder construction. 2,425,025; Aug. 5.
- Boisselier, Earl D., Glen Ellyn, Ill., assignor to Sears, Roebuck and Co. Retractable brush for suction cleaners. 2,432,086; Dec. 9.
- Boissonault, Ronaldo, assignor to A. Sicard, Montreal, Quebec, Canada. Vehicular load carrier and collector. 2,430,973; Nov. 18.



- Boivin, Odilon, Montreal, Quebec, Canada. Shoe heel and attaching the same. 2,417,906; Mar. 25.
- Bojner, Gustav, Stockholm, Sweden. Drying peat and other aqueous materials. 2,413,942; Jan. 7.
- Bokovoy, Samuel A., Verona, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Detachable bridge unit crystal mounting. 2,424,963; Aug. 5.
- Bokovoy, Samuel A., Verona, and K. K. Garrison, East Orange, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y. Crystal holder assembly. 2,423,081; July 1.
- Boland, Edward L., East Orange, assignor to The Babcock & Wilcox Company, Jersey City, N. J. Vapor generator. 2,420,647; May 20.
- Boland, Edward R., Fairhaven, Mass., assignor of one-fifth to T. A. Janckes, Lonsdale, R. I., Parachute. 2,418,456; Apr. 8.
- Boldingh, Willem H., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn. Rectifying installation comprising blocking-layer cells. 2,430,904; Nov. 18.
- Bolduc, Albert, Detroit, Mich. Die removing device. 2,413,943; Jan. 7.
- Bolduc, Albert, Detroit, Mich. Die removing device. 2,413,944; Jan. 7.
- Bolek, Frank J., Chicago, Ill. Adjustable hosiery form. 2,429,199; Oct. 21.
- Bolender, Augustus B., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Indexing universal grinding machine. 2,423,367; July 1.
- Bolens, Harry W., Port Washington, Wis., assignor, by mesne assignments, to The Seng Company, Chicago, Ill. Base for tilting chairs. 2,430,043; Nov. 4.
- Bolesky, John D., and L. W. Buell, assignors to Metals & Controls Corporation, Attleboro, Mass. Motor starting and protective apparatus. 2,425,668; Aug. 12.
- Bolidens Gruvaktiebolag, assignee: *See*—Hager, Bror O.
- Hager, Bror O., and Kjellstrom, Kalling, Bo M. S., Wallden, and Tanner.
- Bollaert, Armand R., Palos Verdes, Calif., assignor to Great Lakes Carbon Corporation. Nonsettling mineral fillers. 2,426,140; Aug. 19.
- Bollens, Walter F.: *See*—Black, Howard C., and Bollens.
- Boller, John A.: *See*—Balsiger, Harold E., and Boller.
- Bolley, Don S., Brooklyn, N. Y. Preparing modified dehydrated castor oil products. 2,414,712; Jan. 21.
- Bolley, Herschel C., Royal Oak, Mich. Signal switch. 2,428,447; Oct. 7.
- Bolley, Herschel C., assignor to H. A. Douglas Mfg. Co., Bronson, Mich. Electric switch. 2,414,713; Jan. 21.
- Bollman, John H., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Direction finding system. 2,418,156; Apr. 1.
- Bollman, John H., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Control of signal power in a signal transmission circuit. 2,426,589; Sept. 2.
- Bollman, John H., Rutherford, and J. G. Kreer, Bloomfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical phase indicating apparatus. 2,429,216; Oct. 21.
- Bolsey, Jacques, New York, N. Y. Photoelectric reproducer for plural consecutive sound tracks. 2,428,778; Oct. 14.
- Bolston, Harry M., Swampscott, Mass. Die. 2,425,082; Aug. 5.
- Bolt, John A., assignor to Standard Oil Company, Chicago, Ill. Treating petroleum distillates. 2,413,945; Jan. 7.
- Bolton, Robert M., U. S. Navy. Apparatus for determining the water vapor content of aviation breathing oxygen. 2,420,648; May 20.
- Bolze, Ernest M., San Diego, Calif., assignor to Hyster Company, Portland, Oreg. Vehicle wheel mounting. 2,414,286; Jan. 14.
- Bonard, Claude, administrator: *See*—Dreyfus, Henry.
- Bonawit, David J., Glen Rock, and E. R. Zeidler, Paterson, assignors to Raybestos-Manhattan, Inc., Passaic, N. J. Manufacture of tractive surface devices. 2,416,427; Feb. 25.
- Bond, Donald C.: *See*—Henderson, Lawrence M., Bond, and Savoy.
- Bond, Donald C., Northbrook, assignor to The Pure Oil Company, Chicago, Ill. Regeneration of spent caustic solutions for treating gasoline. 2,425,414; Aug. 12.
- Bond, Donald C., Northbrook, assignor to The Pure Oil Company, Chicago, Ill. Removal of filter cake from earth bores. 2,425,456; Aug. 12.
- Bond, Donald C., Northbrook, assignor to The Pure Oil Company, Chicago, Ill. Sweetening of hydrocarbon liquids. 2,427,250; Sept. 9.
- Bond, Donald C., Northbrook, and G. W. Ayers, assignors to The Pure Oil Company, Chicago, Ill. Acidizing earth bores. 2,425,415; Aug. 12.
- Bond, Donald C., Northbrook, and M. Savoy, assignors to The Pure Oil Company, Chicago, Ill. Preparation of isoparaffins. 2,425,416; Aug. 12.
- Bond, Donald C., Northbrook, and M. Savoy, assignors to The Pure Oil Company, Chicago, Ill. Hydrocarbon extraction process. 2,428,695; Oct. 7.
- Bond, Donald S., Philadelphia, Pa., assignor to Radio Corporation of America. Radio pulse system. 2,415,929; Feb. 18.
- Bond, Donald S., Philadelphia, Pa., assignor to Radio Corporation of America. Radio direction finder. 2,422,073; June 10.
- Bond, Donald S., Philadelphia, Pa., assignor to Radio Corporation of America. Radio pulse transmission system. 2,422,074; June 10.
- Bond, Donald S., Philadelphia, Pa., assignor to Radio Corporation of America. Counter electromotive force feedback circuit. 2,429,257; Oct. 21.
- Bond, Donald S., Philadelphia, Pa., assignor to Radio Corporation of America. Remote control system. 2,433,195; Dec. 23.
- Bond, George R., Jr., Paulsboro, N. J., assignor to Houdry Process Corporation, Wilmington, Del. Catalysis. 2,417,054; Mar. 11.
- Bond, John R.: *See*—Norton, Howard E., and Bond.
- Bond, Walter L., South Orange, and W. P. Mason, West Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Piezoelectric vibrator. 2,427,348; Sept. 16.
- Bondley, Ralph J.: *See*—McArthur, Elmer D., and Bondley.
- Bondley, Ralph J., Scotia, N. Y., assignor to General Electric Company. High-frequency magnetron. 2,422,465; June 17.
- Bondurant, Carlton W., Dayton, Ohio, assignor to Standard-Thompson Corporation. Relief valve. 2,431,457; Nov. 25.
- Bone, Herbert L., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Circuit controlling means. 2,420,065; May 6.
- Bonell, Ralph K., New York, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Antihunt electrical control system. 2,415,080; Feb. 4.
- Bonewitz, Bonnie M., assignee: *See*—Parker, Milton E., and Bonewitz.
- Bonewitz, Paul W.: *See*—Parker, Milton E., and Bonewitz.
- Bonkowski, Teofil L., Los Angeles, Calif. Sanding drum. 2,418,966; Apr. 15.
- Bono, Austin J., Revere, assignor, by mesne assignments, to J. E. R. Hayes, Melrose, Mass., as trustee. Pleated garment. 2,413,906; Jan. 7.
- Bonorden, Allen R., Plainfield, N. J., P. V. Koos, Manhasset, J. A. Kreck, New Rochelle, W. V. K. Large, Glenwood landing, and T. A. Marshall, Floral Park, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Hub-type telegraph repeater concentration group signaling. 2,413,688; Jan. 7.
- Bonotto, Michele, Princeton, N. J., assignor to D. Di Frasso, Hobe Sound, Fla. Nitroglycerine explosives. 2,413,946; Jan. 7.
- Bonrath, Wilhelm, Leverkusen I. G. Werk, and E. Urbschat, Cologne-Mulheim, Germany; vested in the Attorney General of the United States. Seed dressing agents employing a hydroxy phenyl diazonium compound. 2,421,369; June 3.
- Bonser, Frank, assignor to Interlock Patents Limited, Hucknall, England. Rib knitting machine and method of knitting thereon. 2,429,796; Oct. 28.
- Bonwitz, Wilhelm F., Mount Vernon, N. Y., assignor to Burndy Engineering Company, Inc. Aluminum conducting surface treatment. 2,423,290; July 1.
- Booe, James M., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Contact element. 2,417,967; Mar. 25.
- Booker, Carter L., St. Helena, Calif. Pie cutter. 2,424,015; July 15.
- Boon, Joseph L.: *See*—Wittel, Otto, Koch, and Boon.
- Boord, Cecil E., Columbus, assignor to Wingfoot Corporation, Akron, Ohio. Copolymers of higher butadienes. 2,414,012; Jan. 7.
- Boorer, Alfred, Sussex, England. Valve gear of internal-combustion engines. 2,416,512; Feb. 25.
- Boorstin, Jacob L., New Orleans, La. Garment hanger. 2,429,919; Oct. 28.
- Boosey, Edward W. N., Detroit, Mich. Oil and grease interceptor. 2,433,087; Dec. 23.
- Booth, Robert H. F., assignor to Under Water Welders & Repairers Limited, London, England. Arc welding electrodes. 2,421,594; June 3.
- Booth, Earl C., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind. Chair supporting structure. 2,417,733; Mar. 18.
- Booth, Earl C., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind. Joint for metal tubes. 2,423,577; July 8.
- Booth, Earl C., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind. Sectional ironing board having foldable supports. 2,424,734; July 29.
- Booth, Earl C., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind. Metal table. 2,427,185; Sept. 9.
- Booth, F. E., Company, Inc., assignee: *See*—Derby, Harold K.
- Booth, Fred C., Minneapolis, Minn. Beater. 2,430,600; Nov. 11.



- Booth, George M., Westfield, assignor to Wallace & Tiernan Co., Inc., Belleville, N. J. Backwashing means for filtering apparatus by reverse flow of filtrate. 2,423,172; July 1.
- Booth, Harry O., Richmond, Calif. Book-marker. 2,424,541; July 29.
- Booth, Harry T., Glencoe, Ill., assignor to United Aircraft Products, Inc., Dayton, Ohio. Making heat exchangers. 2,415,865; Feb. 18.
- Booth, Harry T., Glencoe, Ill., assignor to United Aircraft Products, Inc., Dayton, Ohio. Thermostatic control for lubrication systems. 2,433,420; Dec. 30.
- Booth, Jack J., Dallas, Tex. Dry air cooler. 2,425,417; Aug. 12.
- Booth, Jack J., Dallas, Tex. Light reflecting sign. 2,426,163; Aug. 26.
- Booth, James H.: *See*—  
Graham, Matthew P., and Booth.
- Booth, James H., Corunna, Mich. Stone collector. 2,418,924; Apr. 15.
- Booth, James H., Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Variable ratio steering assembly. 2,417,073; Mar. 11.
- Booth, James H., Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Joint. 2,424,431; July 22.
- Booth, Lionel E., Salt Lake City, Utah. Aeration method and machine. 2,433,592; Dec. 30.
- Booth, Robert B.: *See*—  
Frank, Albert R., and Booth.
- Booth, Robert B., Springdale, and E. C. Herkenhoff, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Froth flotation of oxidized iron ores with sulfonated oils. 2,414,714; Jan. 21.
- Booth, Robert B., Springdale, and R. A. Pickens, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Beneficiation of garnet ores by froth flotation with water-dispersible petroleum sulfonates. 2,428,763; Oct. 7.
- Booth, Robert B., Springdale, and E. C. Herkenhoff, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Froth flotation of non-sulfide ores with a mixture of oil-soluble and water-soluble petroleum sulphonates. 2,433,258; Dec. 23.
- Boothe, Eugene F., assignor to James R. Kearney Corporation, St. Louis, Mo. Fuse link. 2,416,428; Feb. 25.
- Boothroyd, Wilson P., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Wide-band superheterodyne receiver. 2,419,984; May 6.
- Boothroyd, Wilson P., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Humidity control apparatus. 2,424,735; July 29.
- Boothroyd, Wilson P., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Power supply system for velocity modulated vacuum tubes. 2,427,382; Sept. 16.
- Boots Pure Drug Company Limited, assignee: *See*—  
Oxley, Peter, and Short.  
Short, Wallace, Frank, and Oxley.
- Bopp, Enos J., Illinois City, Ill. Gate. 2,417,540; Mar. 18.
- Borah, John E., Penn Township, St. Joseph County, Ind. Reinforced collapsible paperboard container. 2,421,238; May 27.
- Bordelon, Madel A., Moreauville, La. Manually operated overrunning clutch. 2,433,336; Dec. 30.
- Borden, George C., Jr., Easton, Pa., and W. Herrick, Milford, N. J., assignors to Riegall Paper Corporation, New York, N. Y. Laminated greaseproof paper. 2,415,551; Feb. 11.
- Borden, Joseph H.: *See*—  
Panter, Carl, Borden, Christensen, and Holler.
- Borden, Joseph H., Philadelphia, assignor, by mesne assignments, to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical system and apparatus for positioning guns and other movable objects. 2,414,924; Jan. 28.
- Borden, Joseph H., Philadelphia, Pa., assignor, by mesne assignments, to Westinghouse Electric Corporation. Electric fuse setter. 2,427,895; Sept. 23.
- Borden, Richard, Milton, Mass. Photographic apparatus. 2,414,083; Jan. 14.
- Bordon Mfg. Co., Inc., assignee: *See*—  
Camilleri, Charles.  
Van Dyke, Frank G.
- Borell, George L., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control system. 2,422,162; June 10.
- Borell, George L., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Gyroscope construction. 2,428,925; Oct. 14.
- Borg, Edward M., Seattle, Wash. Liquid extraction press. 2,427,186; Sept. 9.
- Borg, George W., Corporation, assignee: *See*—  
Dinerstein, Samuel.  
Gibbs, Thomas B.  
Laing, Gordon F.
- Borg, Gustave A., Naugatuck, Conn. Hose coupling. 2,426,590; Sept. 2.
- Borg-Warner Corporation, assignee: *See*—  
Bolender, Augustus B.  
Buchanan, John C., and Reindel.  
Carlson, Raymond A.  
Carnagua, Harold E., and Kelbel.  
Carnagua, Harold E., and Simpson.  
Holt, Ray G., and Martin.  
Hubacker, Earl F.  
Kanuch, John.  
Lauck, John A.  
Lauck, John A., and Holt.  
McCulloch, Robert P., and Ryde.  
Neumann, George R., Farrell, and Davis.  
Orr, Palmer.  
Orr, Palmer, and Conkle.  
Pasco, George E.  
Polomski, John B.  
Rockwell, Edward A.  
Roth, Jay M.  
Roth, Jay M., and Lauck.  
Sheppard, William L.  
Smith, Harold A.  
Swennes, Benjamin A.  
Taylor, Clarence L.  
Voytech, Charles F.  
Zeidler, Reinhold C.
- Borgeat, Denis, Montreal, Quebec, Canada. Hypodermic needle holder. 2,413,858; Jan. 7.
- Borgelt, Elmer H., Dayton, Ohio. Rope splicing tool. 2,417,055; Mar. 11.
- Borgelt, Victor H., Wisner, Nebr. Tractor loader mechanism. 2,433,086; Dec. 23.
- Borgerd, William F.: *See*—  
Cary, Philip E., Overholt, Johnson, and Borgerd.
- Borgerd, William F., Riverside, F. G. Majer, Berwyn, and H. E. Knopp and L. E. Bennett, Chicago, Ill., assignors to International Harvester Company. Ignition coil. 2,416,148; Feb. 18.
- Borgerd, William F., Riverside, and J. S. Palmer, Chicago, Ill., assignors to International Harvester Company. Sea water fractionator. 2,419,881; Apr. 29.
- Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Activators for terpene thiocyanoylate insecticides. 2,420,809; May 20.
- Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Treatment of organic thiocyanates. 2,423,291; July 1.
- Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Preparation of terpene alcohols. 2,432,556; Dec. 16.
- Borglin, Joseph N., and A. L. Rummelsburg, assignors to Hercules Powder Company, Wilmington, Del. Plastic composition. 2,429,603; Oct. 28.
- Borgogno, Tony L., Ogden, Utah. Chock or safety block. 2,427,381; Sept. 16.
- Borgolte, Charles, Woodside, N. Y. Electric cord holder for ironing boards. 2,431,164; Nov. 18.
- Boriff, Jewell L., New Braunfels, Tex. Navigation instrument. 2,420,348; May 13.
- Borkland, Gustave W., Chicago, Ill. Method and apparatus for coating frangible articles. 2,419,758; Apr. 29.
- Born, Frank G., Beloit, Wis., assignor to Warner Electric Brake Manufacturing Company, South Beloit, Ill. Electrical coupling plug. 2,418,457; Apr. 8.
- Born, Leo W., Collingswood, N. J., assignor to Radio Corporation of America. Frequency modulation system with crystal oscillator. 2,426,295; Aug. 26.
- Borne, Noah, Fort Wayne, Ind., assignor to Fort Wayne Wire Die Company. Making wire drawing dies. 2,422,612; June 17.
- Borngraeber, Royce R.: *See*—  
Hyland, William A., and Borngraeber.
- Borngraeber, Royce R., assignor to The Van Brunt Manufacturing Co., Horicon, Wis. Soil pulverizer with cleaner. 2,426,482; Aug. 26.
- Bornzin, James H.: *See*—  
Raney, Russell R., and Bornzin.
- Borresen, William Y.: *See*—  
Bissout, Herbert A., and Borresen.
- Borse, Felix W., Oak Park, and H. S. Hermanson, Deerfield, Ill., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Diverting switch. 2,416,814; Mar. 4.
- Borsini, Frederick H., Dayton, Ohio, assignor to Marion Power Shovel Company. Gantry. 2,420,163; May 6.
- Borsoff, Victor N., and J. O. Clayton, assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif. Foam inhibited oil. 2,430,857; Nov. 18.
- Borsoff, Victor N., and J. O. Clayton, assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif. Foam inhibited oil. 2,430,858; Nov. 18.
- Borsting, Erling, Mount Vernon, Ohio. Rotary compressor or supercharger. 2,414,187; Jan. 14.
- Borsum, Adolph W., U. S. Navy. Electronic ratio bridge system repeater. 2,416,678; Mar. 4.
- Borza, Raphael, New York, N. Y. Electrical contactor. 2,414,630; Jan. 21.
- Borzin, John J., Newark, and W. G. Moran, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrode mounting for electron discharge devices. 2,415,930; Feb. 18.



- Bos, Nicolaas K., assignee: *See*—  
Van Akkeren, Antonius J. J.
- Bosh, James E., Berwyn, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Listening and ringing key for telephone switchboards. 2,427,187; Sept. 9.
- Bosko, Paul, South River, N. J., assignor to Hercules Powder Company, Wilmington, Del. Chlorinating paraffin. 2,433,419; Dec. 30.
- Boskovich, Milan N., Midvale, Utah, assignor of forty-nine one-hundredths to A. O. Hall. Mucking machine. 2,426,591; Sept. 2.
- Bosomworth, George P., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Making molds. 2,424,919; July 29.
- Bosomworth, George P., and E. B. Huffman, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Apparatus for conducting electricity through lengths of continuously advancing electrically conductive material to heat the same. 2,415,027; Jan. 28.
- Bosomworth, George P., and H. G. Hager, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Vulcanizing apparatus. 2,424,915; July 29.
- Bosomworth, George P., Akron, and C. K. Novotny, Mansfield, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Making sheet material. 2,425,028; Jan. 28.
- Bossard, Werner: *See*—  
Krebsner, Adolf, Bossard, and Hindermann.
- Bossart, Anna, Zurich-Hoengg, Switzerland. Device for draining umbrellas. 2,427,188; Sept. 9.
- Bossert, Theodore W.: *See*—  
Chandler, Edward M., Bossert, and Baker.
- Bossi, Enea, New York, N. Y. Helicopter antitorque propeller. 2,415,622; Feb. 11.
- Boston Machine Works Company, assignee: *See*—  
Vachon, Hubert J.
- Boston Wire Stitcher Company, assignee: *See*—  
Harred, George H.  
Lindstrom, Charles M.  
Maynard, Arthur H.
- Boston Woven Hose & Rubber Company, assignee: *See*—  
Bierer, John M.  
Evans, Walter W.  
Marcy, Grosvenor D.
- Bostwick, Myron A., Budd Lake, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrostatic relay. 2,419,111; Apr. 15.
- Boswau, Hans P., Lorain, Ohio, assignor to Leich Electric Co., Genoa, Ill. Frequency determining circuit for telephone ringing current and the like. 2,432,276; Dec. 9.
- Boswell, Thomas L., assignor to Elgin National Watch Company, Elgin, Ill. Making jewel bearings. 2,426,546; Aug. 26.
- Botany Worsted Mills, assignee: *See*—  
Smith, John S.
- Boteler, Henry W., Larchmont, N. Y., assignor, by mesne assignments, to Grinnell Corporation, Providence, R. I. Valve. 2,429,602; Oct. 28.
- Botten, Henry W., assignor to The Owen Bucket Company, Cleveland, Ohio. Bucket locking means. 2,422,523; June 17.
- Bottger, Howard W.: *See*—  
Kirk, Nels J., and Bottger.
- Bottling, Franz: *See*—  
Dornier, Claude, Stauffer, Wähner, and Bottling.
- Bottomley, Frank, Barrington, R. I., assignor to Sealol Corporation. Seal. 2,426,174; Aug. 26.
- Bottomley, Frank, Barrington, R. I., assignor to Sealol Corporation. Shaft seal assembly. 2,429,953; Oct. 28.
- Botts, Henry W., Carthage, Mo., assignor to Hercules Powder Company, Wilmington, Del. Preparing blasting gelatin. 2,421,536; June 3.
- Botts, Hugh P., assignor of one-fourth to L. G. Botts, New York, N. Y. Attachment for coffee pots. 2,416,149; Feb. 18.
- Botts, Hugh P., assignor of one-half to L. G. Botts, New York, N. Y. Sliding jaw supporting clasp. 2,416,150; Feb. 18.
- Botts, Hugh P., assignor of one-half to L. G. Botts, New York, N. Y. Detachable handle for paper bags. 2,417,465; Mar. 18.
- Botts, Hugh P., assignor of one-half to L. G. Botts, New York, N. Y. Game piece projector. 2,424,016; July 15.
- Botts, Lawrence G., assignee: *See*—  
Botts, Hugh P.
- Botts, William, assignee: *See*—  
Groom, William S.
- Boucher, Charles P.: *See*—  
Keiser, Russell W., and Boucher.
- Boucher, Charles P., Fostoria, Ohio, assignor, by mesne assignments, to National Inventions Corporation. Luminescent tube system. 2,428,646; Oct. 7.
- Boucher, Charles P., Fostoria, Ohio, and F. A. Kuhl, Ridgewood, N. J., assignors, by mesne assignments, to National Inventions Corporation. Transformer. 2,429,604; Oct. 28.
- Boucher, Herman G., Wood River, and T. F. Leeds, Alton, Ill., assignors to Shell Development Company, San Francisco, Calif. Reactivation of sulfide catalysts. 2,426,483; Aug. 26.
- Boucher and Keiser Company, assignee: *See*—  
Keiser, Russell W.
- Boucher, Leonard M., Santa Monica, Calif. Apparatus for lubricating engine pistons and cylinders. 2,416,429; Feb. 25.
- Boudreau, Alban M., assignor to Hedstrom-Union Company, Gardner, Mass. Brake for baby carriages, strollers and the like. 2,420,412; May 13.
- Boulade, Jean L., Alturas, Calif. Garment cleaning machine. 2,427,189; Sept. 9.
- Boulade, Jean L., Alturas, Calif. Tilttable laundry washer. 2,432,374; Dec. 9.
- Boulton, John, Bocking, Braintree, assignor to Courtaulds Limited, London, England. Production of cellulosic materials with improved crease-resisting properties. 2,416,151; Feb. 18.
- Bour, Robert C., assignor to National Cylinder Gas Company, Chicago, Ill. Dispensing container for acetylene and storing acetylene. 2,431,675; Dec. 2.
- Bour, Robert C., assignor to National Cylinder Gas Company, Chicago, Ill. Dispensing container for acetylene and method for storing acetylene. 2,431,676; Dec. 2.
- Bourdelaïs, Georges A. J. G., assignor, by mesne assignments, to I. I. Bourdelaïs, Wallingford, Pa. Thread checking comparator gauge. 2,431,021; Nov. 18.
- Bourdelaïs, Irene I., assignee: *See*—  
Bourdelaïs, Georges A. J. G.
- Bourne, Edmund W., Jr., Newark, N. Y. Engine failure warning device. 2,429,920; Oct. 28.
- Bourne, Roland B., West Hartford, assignor to The Maxim Silencer Company, Hartford, Conn. Waste heat boiler. 2,418,157; Apr. 1.
- Bourquin, Edgar, Los Angeles, Calif. Time outlet. 2,423,680; July 8.
- Bourquin, Harold K.: *See*—  
Gille, Raymond G., and Bourquin.
- Bourquin, Jean-Pierre: *See*—  
Schneider, Otto, Bourquin, and Grassner.
- Bousquet, Euclid W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Pest control. 2,418,458; Apr. 8.
- Bousquet, Euclid W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Pest control. 2,418,459; Apr. 8.
- Bousquet, Euclid W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Insecticide containing an amyl imide of 3,6-endomethylene-4-cyclohexene-1,4-dicarboxylic acid. 2,424,220; July 22.
- Bousquet, Euclid W., Wilmington, and A. H. Goddin, Newark, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Dialkoxaryl trichloromethyl methane compounds as insecticides. 2,420,928; May 20.
- Bousquet, John, Copiague, assignor to Beech-Nut Packing Company, Canajoharie, N. Y. Machine for opening collapsed tubular box blanks. 2,431,365; Nov. 25.
- Bouton, George M., Madison, and E. E. Schumacher, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Casting and rapid analysis of alloys. 2,425,725; Aug. 19.
- Bouwers, Albert, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Apparatus for indirect X-ray photography. 2,419,478; Apr. 22.
- Bouwers, Albert, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Schmidt's optical systems comprising a correction element. 2,420,348; May 13.
- Bovee, Ransom Y., Van Nuys, Calif. Barrel type engine. 2,421,868; June 10.
- Bovenzi, Joseph, Syracuse, N. Y. Hand truck. 2,429,797; Oct. 28.
- Bowditch, The, assignee: *See*—  
Morrow, Harry M.
- Bowditch, Hoel L., Sharon, assignor to The Foxboro Company, Foxboro, Mass. Pressure operated switch. 2,420,282; May 6.
- Bowdoin, Fairbanks C., and H. L. Medlock, Phoenix, Ariz. Carton divider. 2,420,460; May 13.
- Bowe, George R., Jr., assignor, by mesne assignments, to Owens-Illinois Glass Company, Toledo, Ohio. Suction method of gathering molten glass. 2,425,592; Aug. 12.
- Bowen, Arnold E., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Tunable resonator and oscillator. 2,414,084; Jan. 14.
- Bowen, Arnold E., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ultra high frequency electronic device. 2,416,283; Feb. 25.
- Bowen, Arnold E., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ultra high frequency electronic device. 2,428,779; Oct. 14.
- Bowen, Arnold E., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ultra high frequency electronic device. 2,428,780; Oct. 14.
- Bowen, Earl M., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Machine tool. 2,415,158; Feb. 4.
- Bowen, Harold W., Kansas City, Mo. Trouser top finisher. 2,428,484; Oct. 7.



- Bowen, Herbert C., Cassopolis, Mich., assignor to Bendix Home Appliances, Inc., South Bend, Ind. Washing machine support structure. 2,414,506; Jan. 21.
- Bowen, Hugh S., Sr., Fairfield, and J. A. Smith, Jr., Birmingham, Ala. Electric arc welding apparatus. 2,417,907; Mar. 25.
- Bowen, Myron W., Niles, Mich., assignor to Bendix Home Appliances, Inc., South Bend, Ind. Tub having a water inlet provided with a vacuum breaker. 2,417,908; Mar. 25.
- Bowen, Norman E., Seattle, Wash. Coin operated device. 2,417,056; Mar. 11.
- Bowen, Phil C., Merriam, Kans. Garment forming machine. 2,429,047; Oct. 14.
- Bowen, Ray D., Los Angeles, Calif. Shoe of special construction. 2,419,479; Apr. 22.
- Bowen, Thomas H., assignor to James R. Kearney Corporation, St. Louis, Mo. Electrical protective device. 2,430,703; Nov. 11.
- Bower, George D., University City, assignor to Automatic Control Corporation, St. Louis, Mo. Cyclic safety control for burners and the like. 2,417,909; Mar. 25.
- Bower, Richard, Flushing, N. Y. Vanity case. 2,424,432; July 22.
- Bowers, Earl E.: *See*—  
Tumey, Charles M., and Bowers.
- Bowers, Elizabeth M., administratrix: *See*—  
Bowers, Thomas A.
- Bowers, Ernest C., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Transferable silk screen stencil. 2,429,986; Nov. 4.
- Bowers, Raymon: *See*—  
Eves, Donald T., and Bowers.
- Bowers, Rolland G.: *See*—  
Thober, Herbert C., and Bowers.
- Bowers, Thomas A., deceased, Mattapoisett; E. M. Bowers, administratrix, assignor of two-thirds to M. H. Hamilton, Lexington, Mass. Piston sealing means. 2,414,013; Jan. 7.
- Bowers, Thomas A., assignor to Power Research Corporation, Boston, Mass. Fabricated piston ring. 2,426,385; Aug. 26.
- Bowersox, Marvin W., Wichita, Kans. Bottle holder and carrier. 2,418,571; Apr. 8.
- Bowerton Shale Company, The, assignee: *See*—  
Milliken, Edward C.
- Bowles, Ben D., assignee, et al.: *See*—  
Bowles, John W.
- Bowles, John W., Meadow Creek, assignor of sixty-six and two-thirds per cent to L. L. Bowles, J. W. Halstead, Thayer, and B. D. Bowles, Meadow Creek, W. Va. Safety landing equipment for aeroplanes. 2,432,375; Dec. 9.
- Bowles, L. L., assignee, et al.: *See*—  
Bowles, John W.
- Bowlus, Claude A., Detroit, Mich. Electric generator. 2,428,781; Oct. 14.
- Bowman, Charles C., Helena, and H. F. Bowman, Augusta, Mont. Dehorning paste applicator having a serrated edge. 2,420,582; May 13.
- Bowman, Charles C., Helena, and H. F. Bowman, Augusta, Mont. Medicament applicator. 2,431,985; Dec. 2.
- Bowman, Floyd P., Hogansville, Ga. Combination soap and washcloth. 2,431,913; Dec. 2.
- Bowman, Howard F.: *See*—  
Bowman, Charles C. and H. F. Bowman, Charles C. and H. F.
- Bowman, Howard J.: *See*—  
Reinhardt, Robert A., and Bowman.
- Bowman, John R., assignor to Gulf Research & Development Company, Pittsburgh, Pa. Method of and apparatus for high vacuum distillation. 2,415,411; Feb. 11.
- Bowman, John R., assignor to Gulf Research & Development Company, Pittsburgh, Pa. Method and apparatus for separating mixtures. 2,427,042; Sept. 9.
- Bowman, Kenneth K.: *See*—  
Alexanderson, Ernst F. W., Edwards, and Bowman.
- Bowman, Philip I.: *See*—  
Burrell, Harry, Bowman, and Barth.
- Bowman, Roy E., Blacksburg, Va. Dehydrohalogenating halogenated organic compounds. 2,419,198; Apr. 22.
- Bowman, William C.: *See*—  
Greider, Harold W., Fasold, and Bowman.
- Bowman, William C., Llanerch, Pa., assignor to The Philip Carey Manufacturing Company. Button locked down siding. 2,421,407; June 3.
- Bowness, Angus H. F., Leamington Spa, England. Multiple dimension gauging apparatus. 2,433,421; Dec. 30.
- Bowser, S. F., & Company, Incorporated, assignee: *See*—  
Griffith, Clement P., Pressler, and Delaney.
- Bowser, Virgil C., Silver Spring, Md. Ammunition positioning device for guns. 2,424,964; Aug. 5.
- Box Blank Corporation, assignee: *See*—  
Shaner, Lyle E.
- Box, Ernest R., assignor to Johnson, Matthey & Company Limited, London, England. Production of electrical condenser plates. 2,429,088; Oct. 14.
- Box, Ernest R., assignor to Johnson, Matthey & Company Limited, London, England. Production of electrical condenser plates. 2,429,089; Oct. 14.
- Box, Ernest R., and F. E. Kerridge, assignors to Johnson, Matthey & Company Limited, London, England. Decoration of ceramics. 2,433,259; Dec. 23.
- Boxwell, Norman L., assignee: *See*—  
Merline, Edward O.
- Boyajian, Aram, Pittsfield, Mass., assignor to General Electric Company. Transformer. 2,428,613; Oct. 7.
- Boyce, Leonard D., Maplewood, Mo. Device for removal of barb wire entanglements. 2,426,592; Sept. 2.
- Boyce Thompson Institute for Plant Research, Inc., assignee: *See*—  
Synerholm, Martin E.
- Boyd, Carl N., Hollydale, Calif. Apparatus for reproducing shapes. 2,421,827; June 10.
- Boyd, Charles R., Detroit, Mich. Magnet. 2,428,864; Oct. 14.
- Boyd, Chester M., Silver Spring, assignor to Engineering and Research Corporation, Riverdale, Md. Gun carriage for turret gun slot closures. 2,423,636; July 8.
- Boyd, George H., Sr., Washington, D. C. Shirt collar. 2,422,219; June 17.
- Boyd, Harold A., and M. Warnock, Shettleston, Glasgow, Scotland. Flyer-leg-aligning mechanism for spinning, twisting, and like textile frames. 2,416,430; Feb. 25.
- Boyd, James H., Jr., Hudson Township, Summit County, and C. R. Wagner, Utica, Ohio, assignors to Phillips Petroleum Company. Production of thiophene. 2,414,631; Jan. 21.
- Boyd, Landon B., La Porte, Ind. Producing pistons. 2,413,947; Jan. 7.
- Boyd, Robert C., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control device. 2,426,919; Sept. 2.
- Boyd, William G.; deceased, Salinas, Calif.; J. A. Cornett, administrator. Breech mechanism for machine guns. 2,430,489; Nov. 11.
- Boye Needle Company, The, assignee: *See*—  
Carlson, Gustav A.
- Boyer, Hugo B., Los Angeles, Calif. Armature and coil winding machine. 2,424,301; July 22.
- Boyer, John L., Wilkinsburg, and H. A. Rose, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Conversion system. 2,428,543; Oct. 7.
- Boyer, Joseph, Detroit, assignor of one-half to L. Lawson, Dearborn, and one-half to A. J. D'Anna, Wyandotte, Mich. Dual transmission gearshift mechanism. 2,428,647; Oct. 7.
- Boyer, Raymond F.: *See*—  
Matheson, Lorne A., and Boyer.
- Boyer, Raymond F., assignor to The Dow Chemical Company, Midland, Mich. Vinylidene chloride compositions stable to light. 2,429,155; Oct. 14.
- Boyer, Robert Q.: *See*—  
Craig, Roderick, and Boyer.
- Boyers, John S., Arlington Heights, Mass., assignor to United States of America, as represented by the Secretary of the Navy. Electrical resistance annealing device for wire. 2,421,537; June 3.
- Boykin, John R., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit for measuring minimum values of unidirectional voltage pulses. 2,425,987; Aug. 19.
- Boylan, Francis O.: *See*—  
Ostertag, Harry M., and Boylan.
- Boyle, Edward J., and E. A. Anderson, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Zinc-titanium-manganese alloys. 2,428,959; Oct. 14.
- Boyle, Eugene G., San Francisco, Calif. Splice insulator. 2,429,258; Oct. 21.
- Boyle-Midway Inc., assignee: *See*—  
Kamlet, Jonas.  
Podolak, Walter.
- Boynton, Alexander, deceased, San Antonio, Tex.; S. S. Martin, executrix. Valveless pressure regulator. 2,429,546; Oct. 21.
- Boynton, Earl S.: *See*—  
O'Brien, Joseph F., and Boynton.
- Boynton, Earl S., East Orange, N. J. Electrical receptacle. 2,427,349; Sept. 16.
- Boynton, Wentworth D., Woodbrook, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for testing electrical insulation. 2,422,288; June 17.
- Bozek, Maurice, Chicago, Ill. Ice creeper. 2,422,335; June 17.
- Bozorth, Richard M., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetostrictive signal translating device. 2,433,337; Dec. 30.
- Braaten, Oscar M., Rock Island, Ill. Contour cutter grinder. 2,419,529; Apr. 29.
- Braaten, Oscar M., Rock Island, Ill., assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Cutter grinder. 2,425,859; Aug. 19.
- Brabazon, Hugh G., Gary, Ind., assignor to Carnegie-Illinois Steel Corporation. Metal cutting and polishing apparatus. 2,415,575; Feb. 11.
- Brace, Porter H., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Purifying metal. 2,432,856; Dec. 16.



- Bracke, Oscar J. J., Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y. Electric ringer. 2,424,550; July 29.
- Brackenbury, John M., Oakland, assignor to Shell Development Company, San Francisco, Calif. Catalytic conversion of oils. 2,416,608; Feb. 25.
- Brackenbury, John M., Oakland, assignor to Shell Development Company, San Francisco, Calif. Catalytic cracking of hydrocarbon oils. 2,432,277; Dec. 9.
- Brackett, Clare L., assignee: *See*—Edwardes, John.
- Bradbury, Donald: *See*—Meyer, Charles A., and Bradbury.
- Braddon, Frederick D., Babylon, N. Y., assignor to Sperry Gyroscope Company, Inc. Gyroscopic horizon. 2,425,300; Aug. 12.
- Braddon, Frederick D., Babylon, L. J. De Lanty, Baldwin, and O. E. Esval, Huntington, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Inductive coupling. 2,432,982; Dec. 23.
- Braddy, Hansford L., Miami, Fla. Photographic film rack. 2,428,511; Oct. 7.
- Braden, Charles C., Tucson, Ariz. Rivet bucking tool. 2,421,987; June 10.
- Bradfield, Joseph L., Indianapolis, Ind., assignor of twenty-five per cent to P. W. Bradfield, Seattle, Wash., and seventy-five per cent to H. A. Minturn, as trustee. Tube connection. 2,432,224; Dec. 9.
- Bradfield, Paul W., assignee: *See*—Bradfield, Joseph L.
- Bradford District Pennsylvania Oil Producers Association, The, assignee: *See*—Yuster, Samuel T.
- Bradin, Abraham: *See*—Freedman, Samuel, and Bradin.
- Bradley, Ernest H., assignor to Vonnegut Moulder Corporation, Indianapolis, Ind. Abrasive head. 2,430,099; Nov. 4.
- Bradley & Gilbert Company, The, assignee: *See*—Vatter, Clifford C.
- Bradley, John J., Cranford, and A. Regenbrecht, Linden, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for stripping sulfur trioxide from oleum. 2,415,159; Feb. 4.
- Bradley, Oswald M., Richmond, Va. Combined marking machine and cutting blade. 2,428,510; Oct. 7.
- Bradley, Robert L., Belmont, Mass. Indicating means for dial instruments in which the dial is provided with light-polarizing characters. 2,427,896; Sept. 23.
- Bradley, Robert O.: *See*—Gilchrist, Fred W., Kendall, and Bradley.
- Bradley, Robert O., and G. W. Walther, assignors to Toledo Scale Company, Toledo, Ohio. Rotary hopper for packaging scales. 2,427,190; Sept. 9.
- Bradley, Wayne D., South Bend, Ind., assignor to United States Rubber Company, New York, N. Y. Crashproof liquid confining receptacle. 2,430,905; Nov. 18.
- Bradley, William E., Swarthmore, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Wide band interstage coupling network. 2,419,882; Apr. 29.
- Bradley, William E., Swarthmore, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Measuring apparatus for ultra high frequency energy. 2,430,664; Nov. 11.
- Bradley, William E., Swarthmore, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Electron focusing apparatus. 2,433,682; Dec. 30.
- Bradley, William E., Swarthmore, Pa., and G. Daly, Brookline, Mass., assignors, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Measuring high-frequency energy. 2,429,200; Oct. 21.
- Bradley, William E., Swarthmore, R. G. Clapp, Haverford, Pa., and I. L. Stephan, Delanco, N. J., assignors, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Tuning device. 2,431,103; Nov. 18.
- Bradley, William H., assignor to Horton Manufacturing Company, Fort Wayne, Ind. Drive mechanism. 2,414,188; Jan. 14.
- Bradnack, John H., Roanoke, Va., and H. D. House, assignors to American Viscose Corporation, Wilmington, Del. Thread-guiding and tensioning means. 2,429,798; Oct. 28.
- Brady, Edward L., and L. E. Glendenin, Oak Ridge, Tenn., assignors to United States of America, as represented by the Director of the Office of Scientific Research and Development, Office for Emergency Management. Safety pipette. 2,423,173; July 1.
- Brady, Francis E., Jr., Muncie, Ind. Pump. 2,417,627; Mar. 18.
- Brady, Frank W., San Francisco, Calif. Ice crusher and conveyor. 2,416,431; Feb. 25.
- Brady, Frank W., San Francisco, Calif. Ice crushing and feeding device. 2,416,432; Feb. 25.
- Brady, George W.: *See*—Chillson, Charles W., and Brady.
- Brady, George W., Upper Montclair, N. J., assignor to Curtiss-Wright Corporation. Reinforced propeller blade. 2,424,875; July 29.
- Brady, John B., Somerset, Md. Printing telegraph transmission and reception system. 2,420,029; May 6.
- Brady, John B., Chevy Chase, Md. Facsimile transmission system. 2,429,921; Oct. 28.
- Brady, Lynn J.: *See*—Corson, Ben B., and Brady.
- Brady, Raymond A., San Francisco, Calif. Conveyor. 2,425,860; Aug. 19.
- Brady, Robert L., and A. C. Wall, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Electric switch. 2,416,897; Mar. 4.
- Brady, S. Proctor, Jr., assignee, et al.: *See*—Ricketts, Lawrence M.
- Brady, S. Proctor, Sr., assignee, et al.: *See*—Ricketts, Lawrence M.
- Brady, William E., Muskegon, Mich. Lead sharpening device for mechanical pencils. 2,432,376; Dec. 9.
- Braidwood, Clinton A., Ferndale, Mich., and A. G. Hovey, Minneapolis, Minn., assignors to Reichhold Chemicals, Inc., Detroit, Mich. Polymerization of rosin. 2,419,185; Apr. 15.
- Braitberg, Leo D.: *See*—Friedman, Harris L., and Braitberg.
- Brakel, Leslie, Eugene, Oreg., and R. T. Thompson, Oak Park, Ill., assignors to Zenith Radio Corporation. Control arrangement for discharge devices. 2,428,008; Sept. 30.
- Bramel, Vera M., assignee, et al.: *See*—Anderson, Frederick, and Couzzen.
- Bramley, Arthur, Long Branch, N. J. Separation of fluids by simultaneous centrifugation and selective diffusion. 2,422,882; June 24.
- Brams, Stewart L., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Rubber composition and making same. 2,424,736; July 29.
- Bramson, Harry, assignee, et al.: *See*—Long, Herbert J.
- Bramson, Maurice, assignee, et al.: *See*—Long, Herbert J.
- Brancone, Louis: *See*—Kushner, Samuel, and Brancone.
- Brand, Samuel, Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Multiplying mechanism. 2,413,859; Jan. 7.
- Brandenburg Instrument Co. Inc., assignee: *See*—Brandenburg, Julius.
- Brandenburg, Julius, New York, N. Y., assignor to Brandenburg Instrument Co. Inc. Stethoscope. 2,414,850; Jan. 28.
- Brandner, John D., West Walker Township, Schuylkill County, Pa., assignor to Atlas Powder Company, Wilmington, Del. Explosive compounds. 2,415,001; Jan. 28.
- Brandner, John D., Wilmington, and R. M. Goepp, Jr., New Castle, assignors to Atlas Powder Company, Wilmington, Del. Dehydration of foods by means of hydrophilic liquids. 2,420,517; May 13.
- Brandom, Reginald F., Oklahoma City, Okla. Coffee or cocktail table. 2,428,735; Oct. 7.
- Brandon, Richard C., Elizabeth, N. J., assignor to Standard Oil Development Company. Motor fuels and preparation thereof. 2,420,030; May 6.
- Brandon, Thomas O., U. S. Navy. Testing abrasion resistance. 2,414,439; Jan. 21.
- Brandon, Wayne D., Skokie, assignor to Baxter Laboratories, Inc., Glenview, Ill. Closure for containers. 2,421,313; May 27.
- Brandt Automatic Cashier Company, assignee: *See*—Halfpap, William G., and Buchholz.
- Brandt, David G., Westfield, N. J., assignor to Cities Service Oil Company, New York, N. Y. Heater for high temperature reactions and conversions. 2,431,632; Nov. 25.
- Brandt, Henry, assignee, et al.: *See*—Fees, John N.
- Brandt, John B., Jr., Rochester, N. Y. Gas evacuating device. 2,419,112; Apr. 15.
- Brandt, Joseph G.: *See*—Toomey, Thomas C., and Brandt.
- Brandt, Max, Los Angeles, Calif. Convertible garden tool. 2,429,120; Oct. 14.
- Brandt, Philipp: *See*—Ratti, Roger, and Brandt.
- Brandt, Walter, Jersey City, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Voice frequency ringer. 2,414,440; Jan. 21.
- Brandt, Walter, Jersey City, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Ringing control arrangement for two-way carrier telephone terminals. 2,414,795; Jan. 28.
- Brannin, Richard S., East Williston, N. Y., assignor to Sperry Gyroscope Company, Inc. Presetting means for long period gyroscopes. 2,429,605; Oct. 28.
- Brannock, Arlyss H., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Bending machine for reclaiming deformed machine gun belt links. 2,424,917; July 29.
- Bransky, Roy, Hood River, Oreg. Gate construction and operating unit therefor. 2,430,325; Nov. 4.
- Branson, Byron, Glendale, Calif. Locking nut. 2,433,260; Dec. 23.
- Branson, David E., River Edge, N. J., F. S. Kinkead, deceased, by R. S. Kinkead, administratrix, New York, J. A. Krecke, New Rochelle, and G. A. Locke, Glenwood Landing, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Printing telegraph automatic switching system. 2,430,447; Nov. 11.



- Branson, Harry, Hightstown, N. J., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Electron tube. 2,414,137; Jan. 14.
- Branson, James E., assignor to J. D. Shanman, Cincinnati, Ohio. Baling press. 2,420,413; May 13.
- Brant, Walter R., Glendale, Calif., assignor to Adel Precision Products Corp. Electrohydraulic position control system. 2,413,907; Jan. 7.
- Brantley, Warner M., near Birmingham, Ala. Tooth extractor. 2,430,271; Nov. 4.
- Brantley, Zelmor V., Houston, Tex. Forming casting matrices. 2,432,377; Dec. 9.
- Brasch, Arno A., New York, N. Y., assignor to Electronized Chemicals Corporation. Devices for treatment of matters with high-speed electrons. 2,429,217; Oct. 21.
- Brass, Philip D., Cranston, R. I., assignor to United States Rubber Company, New York, N. Y. Deposited neoprene latex articles. 2,423,871; July 15.
- Brassel, Jakob: *See—*
- Straub, Fritz, Brassel, and Pieth.
- Brassett, H. A., & Company, assignee: *See—*
- Ramseyer, Charles F.
- Bratz, Otto J., Adrian, Mich., assignor to American Chain & Cable Company, Inc., Bridgeport, Conn. Wedge attachment for hydraulic feeding mechanism. 2,415,931; Feb. 18.
- Bratz, Otto J., Adrian, Mich., assignor to American Chain & Cable Company, Inc., Bridgeport, Conn. Target towing device. 2,432,278; Dec. 9.
- Braucher, Harvey M., Baltimore, Md. Muzzle plug for guns. 2,414,441; Jan. 21.
- Brauchler, Charles A., Canton, Ohio. Forging cylinder heads. 2,424,075; July 15.
- Brauer Brothers Shoe Company, assignee: *See—*
- Wagner, Frederick P.
- Braun, Edward, Merrick, assignor to Remington Rand Inc., Buffalo, N. Y. Punching device. 2,415,866; Feb. 18.
- Braun, Frank, Nobleford, Alberta, Canada. Beet harvesting, topping, trimming, and cleaning machine. 2,422,524; June 17.
- Braun, Frank Conrad, New York, N. Y. Adhesive-containing suction cup. 2,432,719; Dec. 16.
- Braun, G. A., Inc., assignee: *See—*
- Yanchenko, Basil J.
- Braun, Herman J., Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Rectifier assembly. 2,416,152; Feb. 18.
- Braunbock, Ernst: *See—*
- Abeles, Paul, and Braunbock.
- Brauner, Pincus, Haverhill, Mass. Shoe press. 2,422,390; June 17.
- Brauns, Friedrich E.: *See—*
- Lewis, Harry F., and Brauns.
- Brauns, Friedrich E., and I. A. Pearl, assignors, by mesne assignments, to Sulphite Products Corporation, Appleton, Wis. Degradation treatment of lignin material. 2,417,346; Mar. 11.
- Bray, Allen R., Chicago, Ill., assignor to Standard Safety Equipment Co. Protective safety garment. 2,423,002; June 24.
- Bray, Dwight W., Eau Claire, Wis. Wax seal for floors and applying the same. 2,430,490; Nov. 11.
- Bray, Frederick H., and L. R. Brown, assignors to Standard Telephones and Cables Limited, London, England. Circuit for counting electrical impulses. 2,421,005; May 27.
- Bray, Lawrence L., Sheboygan, Wis. Training sandal. 2,427,251; Sept. 9.
- Bray, Malcolm D., Fishkill, assignor to The Texas Company, New York, N. Y. Stabilized lubricating emulsions. 2,422,075; June 10.
- Bray, Richard I., Gloucester, J. Gabry, Saugus, and C. B. Wendell, Jr., Needham, assignors to Godfrey L. Cabot, Inc., Boston, Mass. Manufacture of high volatile carbon black. 2,420,810; May 20.
- Brayden, William J.: *See—*
- Williams, Edward F., and Brayden.
- Breakfield, Durward E., Watertown Arsenal, and J. L. Martin, Newton, Mass. Centrifugal casting. 2,420,298; May 13.
- Brearley, Albert, assignee, et al.: *See—*
- Anderson, Frederick, and Couzzen.
- Breault, Delphis C., Lowell, Mass. Burner construction. 2,414,442; Jan. 21.
- Breaux, Niel T., Houston, Tex. Pipe puller. 2,427,438; Sept. 16.
- Breckner, Gary C., Beverly Hills, and E. F. Robinson, Long Beach, Calif. Child's vehicle. 2,426,432; Aug. 26.
- Breckenridge, Frank, West Englewood, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Speed-changing apparatus. 2,429,509; Oct. 21.
- Breckheimer, Raymond, Milwaukee, Wis., assignor, by mesne assignments, to Rockwell Manufacturing Company, Pittsburgh, Pa. Dust collector. 2,430,448; Nov. 11.
- Breeding, Harold A., Schenectady, N. Y., assignor to General Electric Company. Adjustable cam for electric circuit controllers. 2,428,195; Sept. 30.
- Breedlove, Bernard H., San Mateo, Calif. Electromagnetically operated pendulum type telegraph key. 2,425,457; Aug. 12.
- Breedlove, Harry B., Springfield, Ohio. Hydraulic torque amplifier. 2,420,649; May 20.
- Breese Burners, Inc., assignee: *See—*
- Breese, James L.
- Breese, James L., assignor to Oil Devices, Santa Fe, N. Mex. Portable ring type heater. 2,419,625; Apr. 29.
- Breese, James L., assignor to Oil Devices, Santa Fe, N. Mex. Hydroxylating pot type burner. 2,421,006; May 27.
- Breese, James L., assignor to Oil Devices, Santa Fe, N. Mex. Burner with detachable generator chamber. 2,425,026; Aug. 5.
- Breese, James L., assignor, by mesne assignments, to Breese Burners, Inc., Santa Fe, N. Mex. Hydroxylating pot type hydrocarbon burner. 2,428,009; Sept. 30.
- Breese, James L., assignor, by mesne assignments, to Breese Burners, Inc., Santa Fe, N. Mex. Movable heater for use with portable tanks. 2,428,696; Oct. 7.
- Breese, James L., and B. Hayter, assignors to Oil Devices, Santa Fe, N. Mex. Burning liquid hydrocarbon. 2,422,653; June 24.
- Breeze, Charles A., Aberdeen, Scotland. Fertilizer distributor. 2,416,898; Mar. 4.
- Breeze Corporations, Inc., assignee: *See—*
- Blum, Louis E., Jr.
- Minter, Clarke C.
- Van Orden, Paul S.
- Wright, Frank.
- Breeze, George E., Uncasville, Conn., and G. R. F. Gay, Garden City, N. Y.; said Breeze assignor of his right to the United States Government, as represented by the Secretary of the Navy. Water armed fuze. 2,419,815; Apr. 29.
- Brehm, Leonie, Detroit, Mich. Apron. 2,416,609; Feb. 25.
- Breider, George C., Glendale, Calif. Ventilator. 2,428,544; Oct. 7.
- Breider, George C., Glendale, Calif. Intake ventilator. 2,428,545; Oct. 7.
- Breier, Marcus, Amsterdam, N. Y. Garment. 2,415,333; Feb. 4.
- Breisch, Edgar W., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Receiving coil for train communication apparatus. 2,426,724; Sept. 2.
- Breitenstein, Victor W., Chicago, assignor to F. N. Bard, Highland Park, Ill. Revolving joint. 2,428,546; Oct. 7.
- Bremner, John G. M.: *See—*
- Reynolds, Peter W., Taylor, and Bremner.
- Bremner, John G. M., and D. G. Jones, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited. Production of chloracrolein. 2,427,492; Sept. 16.
- Bremner, John G. M., D. G. Jones, and A. W. C. Taylor, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited. Process for the preparation of  $\delta$ -valerolactone. 2,429,799; Oct. 28.
- Bremser, Albert T., Sidney, assignor to Bendix Aviation Corporation, New York, N. Y. Pump. 2,420,164; May 6.
- Bremser, Albert T., Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Fuel injection apparatus. 2,425,229; Aug. 5.
- Bremser, Albert T., Sidney, assignor to Bendix Aviation Corporation, New York, N. Y. Fuel injection apparatus. 2,430,801; Nov. 11.
- Brennan, James E., Lakewood, Ohio. Ice cube dispensing refrigerator. 2,418,572; Apr. 8.
- Brennan, Joseph E., Euclid, Ohio. Electrolytic device. 2,429,987; Nov. 4.
- Brennen, Ronald F., Valley Stream, assignor to General Die-Stamping Tool Company, New York, N. Y. Stator winding device. 2,416,735; Mar. 4.
- Brenner, Herman A.: *See—*
- Barnes, Eugene L., and Brenner.
- Brenner, Ray A., assignor to New Castle Products, New Castle, Ind. Fabric anchorage for closures and the like. 2,422,391; June 17.
- Brent, Alfred J., Toronto, Ontario, Canada. Making all plastic artificial eyes and product thereof. 2,433,261; Dec. 23.
- Bresch, Albert L., University City, Mo. Patient-lift. 2,429,865; Oct. 28.
- Breslav, Jack, New Haven, Conn. Gripping and lifting strip material. 2,418,692; Apr. 8.
- Breslav, Jack, New Haven, Conn. Industrial truck. 2,418,693; Apr. 8.
- Breslow, Nathan, J. Stein, and H. Kneitel, Brooklyn, N. Y. Shoulder pad. 2,420,583; May 13.
- Bressler, Robert E., Oregon, Ill. Screw conveyor construction. 2,418,540; Apr. 8.
- Bresson, Charles, Lyon, France; vested in the Alien Property Custodian. Electric circuit breaker. 2,414,796; Jan. 28.
- Brest, Harry C., assignor to Brodrex Company, Pomona, Calif. Apparatus for handling plant products. 2,429,386; Oct. 21.
- Brett, William H., assignor to Alliance Ware, Incorporated, Alliance, Ohio. Seat attachment for bathtubs. 2,428,547; Oct. 7.
- Bretthauer, John H., and W. Cermak, Bronx, N. Y. Circuit control system. 2,428,196; Sept. 30.
- Bretz, Frank E., Jr., Oak Park, and P. F. Nardulli, assignors to Ajax-Consolidated Company, Chicago, Ill. Venetian blind fixture. 2,428,197; Sept. 30.



- Breuer Electric Mfg. Co., assignee: *See*—  
Jason, John P.
- Breuer Electric Mfg. Company, assignee: *See*—  
Lanter, Clarence W.
- Breukelman, Christian W., Trinidad, British West Indies. Cementing tool for oil wells. 2,426,164; Aug. 26.
- Breul, Frederic W., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine. 2,424,793; July 29.
- Brewer, John H., Baltimore, Md., assignor to Hynson, Westcott & Dunning, Incorporated. Pipette washer. 2,418,751; Apr. 8.
- Brewer, Nannie H., Rockville, Md. Manufacture of pneumatic tire treads. 2,417,466; Mar. 18.
- Brewer, Nathaniel, Hatfield, assignor to Fischer & Porter Company, Hatboro, Pa. Fluid meter. 2,414,086; Jan. 14.
- Brewer, Nathaniel, Hatfield, assignor to Fischer & Porter Company, Hatboro, Pa. Flow actuated switch. 2,419,942; May 6.
- Brewer, Nathaniel, Newtown, assignor to Fischer & Porter Company, Hatboro, Pa. Magnetic couple for flowmeters or the like. 2,425,691; Aug. 12.
- Brewer, Oscar Z., Spokane, Wash., assignor of one-half to H. H. McNeill Lumber Co., Inc., New York, N. Y. Cushioned receptacle and carboy therein. 2,417,045; Mar. 11.
- Brewer, William, Edmonton, London, assignor to Sparklets Limited, London, England. Atomizer. 2,420,223; May 6.
- Brewster, Leslie A., Dayton, Ohio, assignor to the Government of the United States of America, as represented by the Secretary of War. Dust storm resistance testing chamber. 2,422,179; June 17.
- Brewster, Sol, and W. Miller, New York, N. Y. Glass-lifting or carrying device. 2,420,811; May 20.
- Breyfogle, Paul L.: *See*—  
Steadman, Thomas R., and Breyfogle.
- Brian, Percy W.: *See*—  
Lean, Owen B., and Brian.
- Brian, William S., Owensboro, Ky., assignor, by mesne assignments, to General Electric Company, Apparatus for manufacturing electron discharge devices. 2,422,945; June 24.
- Brian, William S., Owensboro, Ky., assignor to General Electric Company. Electric discharge device and electrode assembly therefor. 2,425,593; Aug. 12.
- Brick, Frank K., Elizabeth, assignor to Finch Telecommunications, Inc., Passaic, N. J. High-speed tape facsimile system. 2,418,618; Apr. 8.
- Bricker, Burton C., Rahway, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating wire-wound electrical resistors. 2,416,864; Mar. 4.
- Bricker, Carl E., assignor to Wingfoot Corporation, Akron, Ohio. Booster brake. 2,419,113; Apr. 15.
- Bricker, Walter K.: *See*—  
Garner, Lloyd P., and Bricker.
- Brickey, Kyle J., Ottumwa, Iowa. Scabbard. 2,424,302; July 22.
- Bricout, Henri, assignor to Comptoir Linier, Paris, France. Safety device for looms. 2,419,437; Apr. 22.
- Bridge, Edward W., Philadelphia, Pa. Nut blanching machine including paired rubbing belts. 2,433,730; Dec. 30.
- Bridgens, Walter R., Bramhope, Leeds, England. Hydraulic die shaping press having flexible forming pad. 2,418,393; Apr. 1.
- Bridgeport Brass Company, assignee: *See*—  
Broecker, Lewis C.
- Wunsch, Karl F., and Ferguson.
- Bridges, Gerald G., Indianapolis, Ind. Clothes drying rack. 2,419,249; Apr. 22.
- Bridges, John H., Paterson, N. J., assignor, by mesne assignments, to National Inventions Corporation. Luminescent tube system and apparatus. 2,413,681; Jan. 7.
- Bridgman, Henry: *See*—  
Moore, Marlin C., and Bridgman.
- Bridwell, Frank F., and G. W. Morrison, deceased, by C. P. Morrison, executrix, Alice, Tex. Bottom hole choke. 2,428,139; Sept. 30.
- Brie, Reginald A. C., Twickenham, England. Landing and launching means for aircraft. 2,415,071; Feb. 4.
- Brief, Samuel, and S. Haddad, New York, N. Y. Traveling toilet for infants. 2,431,538; Nov. 25.
- Briegel, Theodore W., Galva, Ill. Skin grafting knife. 2,419,114; Apr. 15.
- Brien, Theodore R., Cherry Valley, N. Y. Lawn mower sharpener. 2,414,851; Jan. 28.
- Briggs, Carl R., Mantua, assignor of one-half to John Cunningham, Akron, Ohio. Oil and water separator having vertically spaced oil and water outlets. 2,428,927; Oct. 14.
- Briggs Filtration Company, The: *See*—  
Bauer, Walter C.
- Greger, Herbert H., and Reimer.
- Porter, Roscoe C.
- Briggs, George L., Oneida, N. Y. Toothbrush. 2,431,606; Nov. 25.
- Briggs, Henry C., Jersey City, N. J. Ship propulsion system. 2,432,857; Dec. 16.
- Briggs, Janet Z., assignor to Crucible Steel Company of America, New York, N. Y. Alloy steel. 2,429,800; Oct. 28.
- Briggs Manufacturing Company, assignee: *See*—  
Coordes, Harry G.
- Frank, Clarence E.
- Frank, Clarence E., and Wyatt.
- Gerhardt, Waldo G.
- Wyatt, Raymond A.
- Briggs, Southwick W.: *See*—  
Greger, Herbert H., and Briggs.
- Briggs, Southwick W., Washington, D. C. Filter construction. 2,420,414; May 13.
- Briggs & Stratton Corporation, assignee: *See*—  
Jacobi, Edward N.
- Thompson, Glenn S.
- Briggs, Thomas H. and W. H., assignors to Burman & Sons Limited, Birmingham, England. Steering control mechanism. 2,424,912; July 29.
- Briggs, Walter G., Ault, Colo. Beet harvester with topper. 2,430,665; Nov. 11.
- Briggs, Walter H.: *See*—  
Briggs, Thomas H. and W. H.
- Bright, Elizabeth B., St. Albans, N. Y. Metal tie. 2,431,104; Nov. 18.
- Bright Star Battery Company, assignee: *See*—  
Keller, Frederick A.
- Koretzky, Israel, and Keller.
- Brignola, Nicholas F., Troy, N. Y. Ear spatula. 2,425,917; Aug. 19.
- Brill, William E., Cleveland, Ohio, and E. R. Gasser, Buffalo, N. Y., assignors to General Motors Corporation, Detroit, Mich. Ship drive and control system. 2,420,856; May 20.
- Brillhart, Samuel E., Lutherville, and A. N. Gray, Joppa, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Insulated conductors having fabric layers impregnated with ester gum saturants. 2,426,858; Sept. 2.
- Brillouin, Leon N., Madison, Wis., assignor to Federal Telephone & Radio Corporation. High-frequency amplifier and oscillator. 2,424,965; Aug. 5.
- Brimboeuf, Gaston, New York, N. Y. Stepladder guard attachment. 2,423,477; July 8.
- Brimer, Marshall R., J. E. Magoffin, and H. Von Bramer, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Preparing n-butylaldehyde. 2,420,584; May 13.
- Brimm, Eugene O.: *See*—  
Whaley, Fred R., and Brimm.
- Brimm, Eugene O., Kenmore, N. Y., assignor to The Linde Air Products Company. Chemical production of oxygen. 2,427,706; Sept. 23.
- Brimm, Eugene O., Kenmore, N. Y., assignor to The Linde Air Products Company. Chemical production of oxygen. 2,427,707; Sept. 23.
- Brimm, Eugene O., Kenmore, N. Y., assignor to The Linde Air Products Company. Chemical production of oxygen. 2,427,708; Sept. 23.
- Brimm, Eugene O., Kenmore, N. Y., assignor to The Linde Air Products Company. Chemical production of oxygen. 2,427,709; Sept. 23.
- Brinen, Howard F., assignor to Young Radiator Company, Racine, Wis. Making heat transfer units. 2,433,731; Dec. 30.
- Brink, Robert M., Jenkintown, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Blanking control for radio beacon systems. 2,427,191; Sept. 9.
- Brinkman, Carl F., Milwaukee, Wis. Clothes hanger. 2,421,051; May 27.
- Brinkmann, Guenther: *See*—  
Stewart, Gilbert, Brinkmann, and Seyferth.
- Brinkoeter, Paul H., assignor to Ed. Friedrich, Inc., San Antonio, Tex. Open top refrigerated display case. 2,421,314; May 27.
- Brink's, Incorporated, assignee: *See*—  
Wagner, George F.
- Brinson, Gaylord A., Mooreland, Ind. Lock and latch. 2,431,105; Nov. 18.
- Brinson, Harry A., Sidney, assignor to Bendix Aviation Corporation, New York, N. Y. Ignition system. 2,413,948; Jan. 7.
- Briod, André E., Short Hills, and L. O. Buxton, Newark, assignors to Nopco Chemical Company, Harrison, N. J. Producing dry food products. 2,427,520; Sept. 16.
- Brishen, Ernest J., East Cleveland, Ohio. Chuck tool holder. 2,425,988; Aug. 19.
- Briscoe, Elmer G., Fresno, Calif. Vineyard plow. 2,433,422; Dec. 30.
- Brisker, Frederick J., Chattanooga, Tenn. Making athletic or undershirts. 2,417,628; Mar. 18.
- Briskin, Theodore S., and J. Golick, assignors to Revere Camera Company, Chicago, Ill. Magazine holder for motion-picture cameras. 2,418,331; Apr. 1.
- Briskin, Theodore S., and J. J. Golick, assignors to Revere Camera Company, Chicago, Ill. Mechanism for intermittently advancing film. 2,419,759; Apr. 29.
- Brister, Joseph E.: *See*—  
Powell, George M., 3rd, and Brister.
- Bristol, Carlton W., Naugatuck, assignor to The Bristol Company, Waterbury, Conn. Multiple record apparatus. 2,414,221; Jan. 14.



- Bristol Company, The, assignee: *See*—  
 Blakeslee, Clinton A.  
 Bristol, Carlton W.  
 Dyson, Ernest F.  
 Hicks, James I.  
 Koester, Herman.  
 McLaren, Fred B., Jr., and Shepard.  
 Pattee, John R.
- Bristol, Edward S., assignor to Leeds and Northrup Company, Philadelphia, Pa. Control system. 2,420,415; May 13.
- Bristol Steel & Iron Works, Inc., assignee: *See*—  
 Fergusson, Robert O.
- Britcher, Ernest T.: *See*—  
 Weinthal, Stanley E., and Britcher.
- Brite Specialty Company, assignee: *See*—  
 Friedman, Samuel.
- British Acoustic Films Limited, assignee: *See*—  
 Poulsen, Arnold, and Petersen.
- British Celanese Limited, assignee: *See*—  
 Drewitt, James G. N., and Young.  
 Fallows, Leonard, and Mellers.  
 Fisher, James W.  
 Jackson, Thomas, and Hill.  
 Moncrieff, Robert W., and Young.  
 Olpin, Henry C., Gibson, and McKnight.  
 Olpin, Henry C., Stanley, and Argyle.  
 Olpin, Henry C., and Wright.  
 Oxley, Horace F., Thomas, and Mills.  
 Sharphouse, John H., and Downing.  
 Sharphouse, John H., Hawtin, Downing, and Groom-bridge.  
 Taylor, William I.  
 Williams, John G.  
 Williams, John G., and Krause.  
 Wright, John.
- British Insulated Cables Limited, assignee: *See*—  
 Thorpe, Christopher H. M.
- British Insulated Callender's Cables Limited, assignee: *See*—  
 Hollingsworth, Douglas T.  
 Kretschmer, Herbert E.  
 Quayle, Joshua C., Jones, and Bayles.  
 Robson, Briton S.  
 Tunncliffe, Eustace, Taylor, and James.
- British Tricolor Processes Limited, assignee: *See*—  
 Coote, Jack H.
- Britt, Herbert E., Los Angeles, Calif. Producing smoke. 2,420,416; May 13.
- Brittain, Frank W.: *See*—  
 McGuire, Philip J., Brittain, and Rollins.
- Brittain, Richard J., Jr., Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich. Railway journal box. 2,422,946; June 24.
- Brittain, Richard J., Jr., Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich. Journal box. 2,433,022; Dec. 23.
- Britten, Edwin F., Jr., Short Hills, assignor to Monroe Calculating Machine Company, Orange, N. J. Operation control means for calculating machines. 2,419,760; Apr. 29.
- Britten, Edwin F., Jr., Short Hills, assignor to Monroe Calculating Machine Company, Orange, N. J. Front feed paper guiding writing machines. 2,425,172; Aug. 5.
- Britton, Edgar C., and J. N. Hansen, assignors to The Dow Chemical Company, Midland, Mich. Sulfonium compounds. 2,417,057; Mar. 11.
- Britton, Edgar C., J. E. Livak, and M. F. Murray, assignors to The Dow Chemical Company, Midland, Mich. Production of hydantoin. 2,419,530; Apr. 29.
- Britton, Edgar C., J. E. Livak, and J. C. Vander Weele, Midland, Mich., assignors to The Dow Chemical Company, Production of 3-indole aldehyde. 2,414,715; Jan. 21.
- Britton, Loren D., Hinsdale, Ill., assignor to General Motors Corporation, Detroit, Mich. Brush holder. 2,423,926; July 15.
- Broadbent, John H.: *See*—  
 Wolfert, Edward R., and Broadbent.
- Broadbent, John H., Longmeadow, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Antenna positioning control. 2,422,180; June 17.
- Broadbent, John H., Longmeadow, and J. A. Lofgren, Springfield, Mass., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control apparatus. 2,417,407; Mar. 18.
- Broadman, Ralph H., Rochester, N. Y. Strainer for cellar drains. 2,433,423; Dec. 30.
- Broberg, Gustave T., assignor to The Torrington Company, Torrington, Conn. Thread guide and mounting for tricort warp knitting. 2,428,448; Oct. 7.
- Brock, Harold L.: *See*—  
 Pinardi, Charles P., and Brock.
- Brock, Raymond B., assignor to Townson & Mercer Limited, Croydon, England, Condenser. 2,425,669; Aug. 12.
- Brock, William H. J., assignor of one-half to Automotive Products Company Limited, Leamington Spa, England. Securing device. 2,415,232; Feb. 4.
- Brock, William H. J., assignor to Automotive Products Company Limited, Leamington Spa, England. Automatically adjustable force transmitting link. 2,421,869; June 10.
- Brocker, Emil, Van Dyke, assignor to Super Tool Company, Warren Township, Macomb County, Mich. Diamond wheel dresser. 2,422,220; June 17.
- Broder, Anton: *See*—  
 Gubser, Anton, and Broder.
- Broderick & Bascom Rope Company, assignee: *See*—  
 Von Wehrden, Frederick W.
- Broders, Claude E., assignor to V. Gauvreau, Detroit, Mich. Automatic feed head. 2,426,386; Aug. 26.
- Brodie, George H., La Grange, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone transmitter. 2,431,022; Nov. 18.
- Brodie, Ruthford E., Dalton, Mass., assignor to General Electric Company. Electric heater for livestock watering tanks. 2,430,272; Nov. 4.
- Broe, Roy, Oak Park, Ill. Lapping tool. 2,432,606; Dec. 16.
- Broecker, Lewis C., Nichols, assignor to Bridgeport Brass Company, Bridgeport, Conn. Pneumatic torque machine. 2,415,552; Feb. 11.
- Brogdex Company, assignee: *See*—  
 Brest, Harry C.
- Brogie, Francis J., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Drying apparatus. 2,424,737; July 29.
- Brohard, Montie M., Jr., Norwood, Ohio. Garment. 2,428,198; Sept. 30.
- Bronander, Wilhelm B., Montclair, N. J. Machine for forming and winding fin strips. 2,416,865; Mar. 4.
- Bronander, Wilhelm B., Montclair, N. J. Valve cooling mechanism. 2,416,866; Mar. 4.
- Bronander, Wilhelm B., Montclair, N. J. Cooling fin structure. 2,417,629; Mar. 18.
- Bronander, Wilhelm B., Montclair, N. J. Multiple opposed piston engine. 2,419,531; Apr. 29.
- Bronander, Wilhelm B., Montclair, N. J. Valve mechanisms. 2,424,738; July 29.
- Bronander, Wilhelm B., Montclair, N. J. Forming and applying cooling fins to tubular members. 2,426,920; Sept. 2.
- Bronstein, Harry: *See*—  
 Shmukler, Albert, and Bronstein.
- Brooke, Lloyd F.: *See*—  
 Oakley, Eugene H., and Brooke.
- Brooke, Norman, Washington, D. C. Grass and weed cutter. 2,431,106; Nov. 18.
- Brooker, Leslie G. S.: *See*—  
 Carroll, Burt H., and Brooker.  
 Carroll, Burt H., Brooker, and Spence.
- Brookes, Alfred, London, England, assignor, by mesne assignments, to American Cyanamid Company, New York, N. Y. Thermosetting resins containing glyceryl monoethers as flow promoters. 2,413,860; Jan. 7.
- Brookman, Ernest F., and S. F. Pearce, Welwyn Garden City, England, assignors to Imperial Chemical Industries Limited. Thermoplastic polyvinyl halide composition containing chlorinated paraffin wax. 2,421,408; June 3.
- Brookman, Ernest F., and S. F. Pearce, Welwyn Garden City, England, assignors to Imperial Chemical Industries Limited. Thermoplastic polyvinyl chloride, chlorinated paraffin wax, plasticizer compositions. 2,421,409; June 3.
- Brooks Appliance Company Limited, assignee: *See*—  
 Bird, Arthur W.
- Brooks, Charles W., Oklahoma City, Okla. Inflated truss pad. 2,427,546; Sept. 16.
- Brooks Equipment Corporation, assignee: *See*—  
 Quinn, Aloysius J.
- Brooks, Eugene H., Dallas, Tex., assignor to Continental Gin Company. Lint cotton cleaner. 2,418,694; Apr. 8.
- Brooks, Harold H.: *See*—  
 Hyatt, Charles S., and Brooks.
- Brooks, James D.: *See*—  
 Fry, Douglas J., and Brooks.
- Brooks, Jasper J., and L. J. Holloway, Bemis, Tenn. Loom harness cam block. 2,415,623; Feb. 11.
- Brooks, John L.: *See*—  
 Harrison, T., and Brooks.
- Brooks, Lester A., Stamford, Vt., and M. Markarian, assignors to Sprague Specialties Company, North Adams, Mass. Synthesis of alkylated pyrrole compounds. 2,417,046; Mar. 11.
- Brooks, Lewis C., Madison, assignor of one-third to I. M. Jones, Mequon, Wis. Liquidproof paper container. 2,415,081; Feb. 4.
- Brooks Manufacturing Corporation, assignee: *See*—  
 Bloch, Julius.
- Brooks, Richard E.: *See*—  
 Gresham, William F., and Brooks.
- Brooks, Richard E., Edgemoor Terrace, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. N-alkylidene, n-cycloalkylidene, and n-aralkylidene aliphatic diamines. 2,416,042; Feb. 18.
- Brooks, William H., San Francisco, Calif. Fruit cake method. 2,421,112; May 27.
- Brooks, William S., New York, N. Y. Combined clothes hamper and wash bowl. 2,425,083; Aug. 5.
- Brooks, William W., New York, N. Y. Shoe heel. 2,423,753; July 8.
- Brookville Glove Company, assignee: *See*—  
 Leach, David G.



- Brophy, John J., Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe and making shoes. 2,426,666; Sept. 2.
- Brophy, John J., Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Spraying a temporary protective coating. 2,431,684; Dec. 2.
- Broschke, Heinrich: *See*—  
Becker, Helmut, and Broschke.  
Riepert, Hermann, and Broschke.
- Brose, Leonard C.: *See*—  
Eggert, Ronald E., and Brose.
- Broseker, Roland H., Anne Arundel County, and J. L. Hessenauer, Baltimore, Md., assignors to Bendix Aviation Corporation, South Bend, Ind. Preparing bar stock in the manufacture of piezoelectric quartz crystals. 2,414,087; Jan. 14.
- Broseker, Roland H., and J. L. Hessenauer, Baltimore, Md., assignors to Bendix Aviation Corporation, South Bend, Ind. Preparation of piezoelectric resonators. 2,414,088; Jan. 14.
- Brosemer, Louis C., Sacramento, Calif. Road oiler. 2,428,865; Oct. 14.
- Brosnan, Mary, Inc., assignee: *See*—  
Adler, Ralph.
- Broste, Alfred, Victoria, British Columbia, Canada. Mechanical finger. 2,429,866; Oct. 28.
- Broughton, Douglas J., assignor to Buxton, Incorporated, Springfield, Mass. Flexible pocket receptacle. 2,429,979; Nov. 4.
- Broughton, Douglas J., assignor to Buxton, Incorporated, Springfield, Mass. Accordion fold end-closure means for flexible pocket receptacles. 2,432,557; Dec. 16.
- Broughton, Douglas J., assignor to Buxton, Incorporated, Springfield, Mass. End pocket closure means for flexible pocket receptacles. 2,432,558; Dec. 16.
- Brouillard, Robert E.: *See*—  
Lacey, Harold T., and Brouillard.
- Broussard, Robert F., Houston, Tex., assignor to Duncan Meter Corporation, Chicago, Ill. Coin handling apparatus. 2,430,384; Nov. 4.
- Broverman, Michael, Pittsfield, Mass., assignor to General Electric Company. Treating silicon steel strip. 2,413,949; Jan. 7.
- Brovsky, Joseph E., assignor to Gates Rubber Company, Denver, Colo. Blend of rubbery butadiene-styrene copolymer and chloroprene polymer. 2,427,192; Sept. 9.
- Browall, Bert H., assignor to Svenska Aktiebolaget Bromsregulator, Malmö, Sweden. Load gear equipment for vehicle brakes. 2,417,859; Mar. 25.
- Browall, Bert H., assignor to Svenska Aktiebolaget Bromsregulator, Malmö, Sweden. Load-responsive fluid-pressure brake for vehicles. 2,424,913; July 29.
- Browall, Bert H., assignor to Svenska Aktiebolaget Bromsregulator, Malmö, Sweden. Variable leverage mechanism for vehicle brakes. 2,427,252; Sept. 9.
- Brown, Alexander P., Beechhurst, N. Y. Piano action. 2,421,239; May 27.
- Brown, Alexander P., Beechhurst, N. Y. Piano action. 2,424,017; July 15.
- Brown, Alexander P., Beechhurst, N. Y. Piano action. 2,424,018; July 15.
- Brown, Alexander P., Beechhurst, Long Island, N. Y. Piano action. 2,425,989; Aug. 19.
- Brown, Alfred S., assignor to Skenandoo Rayon Corporation, Utica, N. Y. Method and apparatus for drying yarn packages in an electrostatic field. 2,428,615; Oct. 7.
- Brown, Alfred S., assignor to Skenandoo Rayon Corporation, Utica, N. Y. Manufacturing viscose rayon yarn. 2,433,733; Dec. 30.
- Brown, Ambrose M., Milwaukee, Wis. Folding crib. 2,430,704; Nov. 11.
- Brown, Arthur L., assignor to Factory Mutual Research Corporation, Boston, Mass. Fire-vent building. 2,416,284; Feb. 25.
- Brown, Arthur R., Wilbraham, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Coupling for rotary members. 2,430,449; Nov. 11.
- Brown, Asa D., Jacksonville, Fla. Self-cleaning suction head. 2,414,797; Jan. 28.
- Brown, Ben M.: *See*—  
McCormick, George, and Brown.
- Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Shuttle feeler guide. 2,424,019; July 15.
- Brown, Carl S., Lakewood, assignor to Glascote Products, Inc., Cleveland, Ohio. Agitator nozzle. 2,425,918; Aug. 19.
- Brown, Cecil L., Baton Rouge, La., assignor to Standard Oil Development Company. Production of xylidene. 2,432,087; Dec. 9.
- Brown, Charles C., Greensboro, N. C. Foldable leg structure for tables and the like. 2,424,266; July 22.
- Brown, Charles F., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Resinous reaction product of polymerized fatty acid ester, rosin, and trialkanolamine. 2,416,433; Feb. 25.
- Brown, Charles F., Middlebury, Conn., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Preparing aqueous dispersions of synthetic resins. 2,419,816; Apr. 29.
- Brown, Charles H., Arkansas City, Kans. Mop or broom rack. 2,423,292; July 1.
- Brown, Charles O., Rye, N. Y., assignor to American Ore Reduction Corporation, Dover, Del. Reducing ores. 2,418,394; Apr. 1.
- Brown, Charles R., Norwood, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Generator attachment. 2,428,548; Oct. 7.
- Brown, Clyde A., assignor to The Dole Valve Company, Chicago, Ill. Valve. 2,427,439; Sept. 16.
- Brown, Clyde A., assignor to The Dole Valve Company, Chicago, Ill. Valve. 2,433,732; Dec. 30.
- Brown, Donald N., assignor to Corning Glass Works, Corning, N. Y. Sheet glass forming apparatus. 2,422,466; June 17.
- Brown, Donald P., and P. S. Maslin, Redwood City, Calif. Tennis ball can holder. 2,429,342; Oct. 21.
- Brown, Ethan A., Boston, Mass., M. H. Gorin, Dallas, Tex., and H. A. Abramson, Chevy Chase, Md. Antiseptic urea peroxide-glycerol solution. 2,430,450; Nov. 11.
- Brown-Payro Company, The, assignee: *See*—  
Stamler, William R.
- Brown Finlube Company, assignee: *See*—  
Brown, John W., Jr.
- Brown, Franklin M., York, Pa. Illuminated mirror. 2,428,649; Oct. 7.
- Brown, Fred P., Braintree, Mass., assignor, by mesne assignments, to General Foods Corporation, New York, N. Y. Fish heading machine. 2,423,174; July 1.
- Brown, Fulton, Winchester, Mass. Horseshoe bell. 2,428,648; Oct. 7.
- Brown, Garfield, assignor to The Northern Pump Company, Minneapolis, Minn. Pump stroke changing means. 2,428,140; Sept. 30.
- Brown, George H., Princeton, N. J., assignor to Radio Corporation of America. Antenna system. 2,415,932; Feb. 18.
- Brown, George H., Princeton, N. J., assignor to Radio Corporation of America. Antenna system. 2,415,933; Feb. 18.
- Brown, George H., Princeton, N. J., assignor to Radio Corporation of America. Antenna system. 2,417,290; Mar. 11.
- Brown, George H., Princeton, N. J., assignor to Radio Corporation of America. Reactance compensation. 2,419,985; May 6.
- Brown, George H., Princeton, N. J., assignor to Radio Corporation of America. Antenna system. 2,422,076; June 10.
- Brown, George H., Princeton, N. J., assignor to Radio Corporation of America. Antenna system. 2,432,858; Dec. 16.
- Brown, George H., Haddonfield, N. J., assignor to Radio Corporation of America. Surface hardening of ferrous metal by self-quenching. 2,424,794; July 29.
- Brown, George H., Princeton, and R. A. Bierwirth, Kingston, N. J., assignors to Radio Corporation of America. Radio frequency wattmeter. 2,416,977; Mar. 4.
- Brown, George H., and O. M. Woodward, Jr., Princeton, N. J., assignors to Radio Corporation of America. Directive antenna. 2,421,988; June 10.
- Brown, George H., Haddonfield, and R. A. Bierwirth, Haddon Heights, N. J., assignors to Radio Corporation of America. Radio-frequency electric field bonding apparatus. 2,422,525; June 17.
- Brown, George H., and D. W. Peterson, Princeton, N. J., assignors to Radio Corporation of America. Radio power division network. 2,428,831; Oct. 14.
- Brown, George M., Scotia, N. Y., assignor to General Electric Company. Power reduction circuit for radio receivers. 2,420,518; May 13.
- Brown, George M., Scotia, N. Y., assignor to General Electric Company. Electric discharge device oscillator with nonlinear grid leak resistor. 2,420,857; May 20.
- Brown, George M., Syracuse, N. Y., assignor to General Electric Company. Amplitude modulation system. 2,432,720; Dec. 16.
- Brown, Gordon H., P. W. Vittum, and E. E. Jelley, assignors to Eastman Kodak Company, Rochester, N. Y. Light-sensitive layers having ultra-violet light filters. 2,415,624; Feb. 11.
- Brown, Guy D., assignee: *See*—  
Hagaman, Albert T.
- Brown, H. Brainard, assignor to Taylor Instrument Companies, Rochester, N. Y. Thermometer. 2,415,274; Feb. 4.
- Brown, Harold, Denver, Colo. Combined door check and closer. 2,421,595; June 3.
- Brown, Harry D., Rifle, Colo. Recovery of oil from shales. 2,431,677; Dec. 2.
- Brown, Harry D., Danville, Ill. Wear compensator for brake beam struts. 2,431,914; Dec. 2.
- Brown, Henry B., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Controlling mechanism. 2,424,551; July 29.
- Brown, Henry T., and E. Gorin, Dallas, Tex., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Catalytic conversion of mixtures of alkyl chlorides and petroleum fractions. 2,425,861; Aug. 19.
- Brown, Horace C., Orinda, assignor to Rheem Manufacturing Company, Richmond, Calif. Fibre container. 2,416,372; Feb. 25.



- Brown, Howard E.: *See*—  
Bartlett, Luis H., Woolrich, and Brown.
- Brown Instrument Company, The, assignee: *See*—  
Caldwell, John A.  
Caldwell, John A., and Barnes Gess, Louis.  
Jones, Harry S.  
Malenschein, John F.  
McGrath, William L.  
Moore, Philemon J.  
Schmitt, Henry M.  
Shaffer, William L.  
Side, Frederick W.  
Smith, Edgar M.  
Stocker, Henry J.  
Tegge, Carlton S.  
Wannamaker, William H., Jr.  
Wills, Walter P.
- Brown, Jack E., Brooklyn, N. Y. Spectacle and eyeglass case. 2,427,043; Sept. 9.
- Brown, James H., Seattle, Wash. Shaping mold. 2,419,532; Apr. 29.
- Brown, Jesse B., assignor to Bendix Aviation Corporation, South Bend, Ind. Steering gear control. 2,432,721; Dec. 16.
- Brown, John E., New Orleans, La. Grinding attachment for lathes. 2,413,950; Jan. 7.
- Brown, John W., Jr., Lakewood, assignor to Brown Finetube Company, Elyria, Ohio. Finned tube. 2,418,619; Apr. 8.
- Brown, John W., Jr., Lakewood, assignor to Brown Finetube Company, Elyria, Ohio. Heat exchanger. 2,424,221; July 22.
- Brown, Kenneth R., West Chester, Pa., assignor, by mesne assignments, to American Viscose Corporation. Yarn having the twist set therein with an unctuous solid. 2,418,752; Apr. 8.
- Brown, Kenneth R., West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del. Etherified anhydro hexitols. 2,420,519; May 13.
- Brown, Kenneth R., Kennett Square, Pa., assignor to Atlas Powder Company, Wilmington, Del. Partial lauric acid esters of polyhydric alcohols in insecticides. 2,432,607; Dec. 16.
- Brown, Leo C.: *See*—  
Roth, Warren D., Brown, and Phelps.
- Brown, Leo H., Glenville, Conn. Bore sighting device including an apertured divergent lens. 2,419,533; Apr. 29.
- Brown, Leo H., Glenville, Conn. Periscopic bore sight. 2,422,181; June 17.
- Brown, Leo H., Glenville, Conn. Split field dual power telescope. 2,433,338; Dec. 30.
- Brown, Leslie M., East Hartford, assignor to The Silux Company, Hartford, Conn. Thermostatic control. 2,424,433; July 22.
- Brown, Leslie R.: *See*—  
Bray, Frederick H., and Brown.
- Brown, Lloyd P., Los Angeles, Calif. Center finder and punch. 2,420,350; May 13.
- Brown, Norman L., Velasco, Tex. Vehicle deceleration signal. 2,420,351; May 13.
- Brown, Orval A., Baytown, Tex., assignor to Standard Oil Development Company. Polymerization of olefins. 2,424,143; July 15.
- Brown, Owen J., Jr., Malden, assignor to Godfrey L. Cabot, Inc., Boston, Mass. Carbon black product and producing the same. 2,415,072; Feb. 4.
- Brown, Paul, Chicago, Ill. Market basket. 2,415,334; Feb. 4.
- Brown, Raymond W., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Magnetic testing apparatus. 2,425,361; Aug. 12.
- Brown, Reynolds D., Jr., Blue Bell, assignor to Philco Corporation, Philadelphia, Pa. Multivibrator. 2,416,513; Feb. 25.
- Brown, Robert, Brooklyn, N. Y. Ultra-violet light filter composition. 2,418,695; Apr. 8.
- Brown, Robert L.: *See*—  
Bangham, Donald H., Bennett, Brown, Hirst, Pirani, and Jennings.
- Brown, Robert O.: *See*—  
Harrel, Chastain G., and Brown.
- Brown, Roy W., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Vehicle suspension. 2,415,026; Jan. 28.
- Brown, Roy W., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Pivotal joint. 2,424,914; July 29.
- Brown, Roy W., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Tubeless tire and rim. 2,424,918; July 29.
- Brown, Rush G., Riverton, Wyo. Safety release clutch. 2,431,107; Nov. 18.
- Brown & Sharpe Manufacturing Company, assignee: *See*—  
Bennett, Arthur F.  
Twamley, William E.
- Brown, Theophilus, assignor to Deere & Company, Moline, Ill. Joint or separate operation of control valves for two fluid motors. 2,416,373; Feb. 25.
- Brown, Thomas J., and E. B. Bush, Oklahoma City, Okla. Rear vision mirror mounting. 2,424,222; July 22.
- Brown, Thomas T., Laguna Beach, Calif., assignor, by mesne assignments, to Lockheed Aircraft Corporation. Vibration damper. 2,417,847; Mar. 11.
- Brown, Ual J., Oklahoma City, Okla. Electrochemical scale remover and scale and corrosion preventer. 2,415,576; Feb. 11.
- Brown, Wallace M.: *See*—  
Holmstrom, John G., and Brown.
- Brown, William, Nottingham, England. Cycle wheel hub. 2,430,705; Nov. 11.
- Brown, William C., Watertown, assignor to Raytheon Manufacturing Company, Newton, Mass. Electronic discharge device of the magnetron type. 2,416,899; Mar. 4.
- Brown, William C., Watertown, assignor to Raytheon Manufacturing Company, Newton, Mass. Apparatus for brazing radially extending plates to the interior of a tube. 2,433,339; Dec. 30.
- Brown, William H., Kennett Square, assignor to Pennsylvania Flexible Metallic Tubing Company, Philadelphia, Pa. Flexible tubing connection. 2,431,633; Nov. 25.
- Brown, William J., West Englewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Submarine signal microphone. 2,425,594; Aug. 12.
- Brown, William R., El Paso, Tex. Rotary gang assembly. 2,419,986; May 6.
- Brown, Wilson W., Hollywood, Calif. Hairdressing dispenser. 2,413,682; Jan. 7.
- Browne, Cecil O., deceased, Buckinghamshire, by M. W. Browne, Gerrard's Cross, and E. W. Tole, Bower Ashton, Long Ashton, administrators, and A. D. Blumlein, deceased, London, by D. Blumlein, executrix, Lescudjack, Penzance, assignors to Electric & Musical Industries Limited, Hayes, Middlesex, England. Multiple contact electric switch. 2,431,023; Nov. 18.
- Browne, John C., K. G. Browne, administratrix of said John C. Browne, deceased, assignor to K. G. Browne, New York, N. Y. Receptacle and closure therefor. 2,428,782; Oct. 14.
- Browne, Katherine G., assignee, administratrix: *See*—  
Browne, John C.
- Browne, Lindsay H., Westport, Conn., assignor to American Brake Shoe Company. Check valve. 2,417,968; Mar. 25.
- Browne, Lindsay H., Westport, Conn., assignor to American Brake Shoe Company. Epicyclic drive. 2,427,253; Sept. 9.
- Browne, Margaret W., administrator, et al.: *See*—  
Browne, Cecil O., and Blumlein.
- Browne, Paul W., assignor of five per cent to C. H. Mansfield and fifteen per cent to C. A. Billings, Roodhouse, Ill. Electric room heater. 2,433,196; Dec. 23.
- Brownell, Dean H., Rocky River, Ohio. Coupling. 2,420,858; May 20.
- Browner, George R., Lynchburg, Va., assignor to The Mead Corporation, Chillicothe, Ohio. Packaging and forming the same. 2,425,301; Aug. 12.
- Browning, Glenn H., Winchester, Mass. Approach protective system. 2,421,771; June 10.
- Browning, Harry, Louisville, Ky., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Tool for lining pipe. 2,430,273; Nov. 4.
- Brownlee, Allen L.: *See*—  
Ellingham, Stanley R., and Brownlee.
- Smart, Sidney K., and Brownlee.
- Brownlee, Allan L., Itasca, Ill. Approach protective apparatus. 2,424,677; July 29.
- Broyles, Grace A., Kenosha, Wis. Hair curler. 2,422,716; June 24.
- Brva, Lad, assignor to Kirsch Company, Sturgis, Mich. Curtain rod or drapery fixture. 2,427,833; Sept. 23.
- Brubacher, William G., Montreal, Quebec, Canada. Apparatus for making wallboards. 2,428,512; Oct. 7.
- Brubaker, John T., Luray, Va. Measuring and dispensing container. 2,425,142; Aug. 5.
- Brubaker, John T., Luray, Va. Ruling pen. 2,425,143; Aug. 5.
- Brubaker, Merline M., Boothwyn, Pa., J. R. Roland, McDaniel Heights, Del., and M. D. Peterson, Oak Ridge, Tenn., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Ethylene-vinyl chloride polymers. 2,422,392; June 17.
- Bruce, Alfred W., New York, N. Y., and J. Partington, East Orange, N. J., assignors to American Locomotive Company, New York, N. Y. Pressure vessel. 2,421,596; June 3.
- Bruce, Arthur M., Long Beach, Calif. Clamp for cables and the like. 2,419,761; Apr. 29.
- Bruce, Edmond, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Gunfire control. 2,418,153; Apr. 1.
- Bruce, Edmond, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Time measuring system. 2,422,654; June 24.
- Bruce, Lawrence R., Incorporated, assignee: *See*—  
Lustig, Bernard, and Kondritzer.
- Bruce, William A., Tulsa, Okla., assignor to Standard Oil Development Company. Analyzer for subterranean fluid reservoirs. 2,423,754; July 8.



- Gruchsalder, Karl, Stockton, Calif. Hammer. 2,420,120; May 6.
- Bruckman, William C., Yellow Springs, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrically heated ironing apparatus. 2,415,275; Feb. 4.
- Bruckner, Robert E., assignor, by mesne assignments, to Kimble Glass Company, Vineland, N. J. Needle for filling receptacles. 2,414,138; Jan. 14.
- Bruderlin, Henry H., Hermosa Beach, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Method and apparatus for flanging sheet metal. 2,422,883; June 24.
- Bruenner, Ernest, Massillon, Ohio, assignor to The Griscom-Russell Company, New York, N. Y. Method and apparatus for making finned tubing. 2,430,210; Nov. 4.
- Bruenger, Robert D., Chicago, Ill. Internal-combustion engine. 2,417,910; Mar. 25.
- Bruelheide, Louis B., Bedford, Ohio. Mail box. 2,418,010; Mar. 25.
- Bruen, George C., deceased, by S. E. Bruen, executrix, assignor, by mesne assignments, of thirty-five per cent to S. E. Bruen, Chicago, five per cent to E. V. Dickinson, Highland Park, nine per cent to S. M. Bullock, Wilmette, Ill., ten and one-half per cent to G. A. Stuart, Washington, D. C., two per cent to J. Fisher, Chicago, one per cent to M. Thoenen, Elmwood Park, one per cent to G. H. Fredericksen, Chicago, Ill., and one per cent to E. M. Thorsen, St. Joseph, Mo. Card filing equipment. Re. 22,850; Mar. 11.
- Bruen, George C., deceased, assignor, by mesne assignments, of thirty-five and five-tenths per cent to himself, thirty-five per cent to S. E. Bruen, Chicago, five per cent to E. V. Dickinson, Highland Park, nine per cent to S. M. Bullock, Wilmette, Ill., ten and five-tenths per cent to G. A. Stuart, Washington, D. C., two per cent to J. Fisher, Chicago, one per cent to M. Thoenen, Elmwood Park, one per cent to G. H. Fredericksen, Chicago, Ill., one per cent to E. M. Thorsen, St. Joseph, Mo.; S. E. Bruen, executrix. Card filing equipment. 2,424,144; July 15.
- Bruen, Sophie E., executrix, assignee, et al.: See—  
Bruen, George C.
- Bruenner, Alexander: See—  
Koster, Frederick W., and Bruenner.
- Brühlmann, Gottfried, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Gas blast circuit breaker. 2,416,466; Feb. 25.
- Bruker, Hobart W., Bordentown, N. J. Paperboard slitting and scoring mechanism. 2,418,066; Mar. 25.
- Brumagin, Ivan S., Warren, Pa. Rotary shaft seal. 2,418,620; Apr. 8.
- Brumbaugh, John M., Lansdowne, Pa., assignor to Radio Corporation of America. Frequency modulation monitor. 2,415,456; Feb. 11.
- Brumbaugh, John M., Lansdowne, Pa., assignor to Radio Corporation of America. Voltage regulator. 2,423,368; July 1.
- Brumder, Herbert P., Chenequa, and S. Mandl, assignors to Blackhawk Mfg. Co., Milwaukee, Wis. Ram assembly. 2,430,100; Nov. 4.
- Brumfield, Robert C.: See—  
Rutishauser, Hans, Brumfield, and Zwicky.
- Brunberg, Nita C., assignee: See—  
Brunberg, Paul E.
- Brunberg, Paul E., assignor of forty-five one hundredths to N. C. Brunberg, Detroit, Mich. Method and apparatus for spot welding. 2,416,374; Feb. 25.
- Brundage, John F., Oxnard, Calif., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Disk harrow with transport means. 2,421,772; June 10.
- Bruene, Lennart H.: See—  
Ries, Edward J., and Bruene.
- Bruner, Walter M.: See—  
Loder, Donald J., and Bruner.
- Brunet, Laurent, Montreal, Quebec. Registering negatives. 2,418,754; Apr. 8.
- Bruney, William E., assignor to Wingfoot Corporation, Akron, Ohio. Fast charge unit. 2,421,828; June 10.
- Bruning, Charles, Company, Inc., assignee: See—  
Streich, Paul B.
- Brunmark, Elmer H., assignee: See—  
Lapointe, Louis E., and Gaudet.
- Brunner, Anton J., Congress Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Shearing tool. 2,428,650; Oct. 7.
- Brunner, Francis R., Los Angeles, Calif. Garment hanger. 2,423,369; July 1.
- Brunner, Frank A., Ridgewood, N. Y. Toothpick dispenser. 2,420,812; May 20.
- Brunner, Mary M., administratrix: See—  
Brunner, Reed R.
- Brunner, Reed R., deceased, by M. M. Brunner, administratrix, Baltimore, Md. Radio beacon. 2,417,807; Mar. 25.
- Bruno, Charles, Highland Park, Mich. Welding mechanism. 2,419,817; Apr. 29.
- Bruno Patents, Inc., assignee: See—  
Bruno, William A.  
Hefe, Edward J.
- Bruno, William A., deceased, New Hyde Park, by the firm Bruno Patents, Inc., Long Island City, N. Y., assignee. Connecting means for conductors of coaxial electrical transmission lines. Re. 22,920; Sept. 30.
- Bruns, William H., Lincoldale, assignor to Otis Elevator Company, New York, N. Y. Electrical control circuits. 2,415,457; Feb. 11.
- Bruns, William H., Lincoldale, N. Y., and H. E. Galant, assignors to Otis Elevator Company, New York, N. Y. Electronic timing apparatus. 2,433,424; Dec. 30.
- Brunsvold, Erick G., Hatton, N. Dak. Sacked potato loading machine. 2,427,254; Sept. 9.
- Brus, Emile P., Kansas City, Mo. Renewable cartridge fuse. 2,419,250; Apr. 22.
- Brus, Emile P., Kansas City, Mo. Electric fuse. 2,419,251; Apr. 22.
- Brush Development Company, The, assignee: See—  
Arndt, John P., Jr.  
Beeun, Semi J.  
Jones, Cary B.  
Massa, Frank.  
Miller, Harry B.  
Shomer, John E.  
Williams, Alfred L. W.
- Brush, Jerome, Brookline, Mass. Preventing wake formation. 2,414,632; Jan. 21.
- Bruson, Herman A.: See—  
MacMullen, Clinton W., and Bruson.
- Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Esters of hydroxydihydronorpolycyclopentadienes and unsaturated fatty acids. 2,414,089; Jan. 14.
- Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Organic polysulfides. 2,415,002; Jan. 28.
- Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Unsaturated cyclic ethers. 2,421,597; June 3.
- Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Beta-norbornyl esters. 2,425,173; Aug. 5.
- Bruson, Herman A., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Esters of endethylene-substituted cyclopentanols. 2,426,725; Sept. 2.
- Bruson, Herman A., Philadelphia, Pa., assignor to The Resinous Products & Chemical Company. Dihydronordicyclopentadienyl-substituted formals. 2,416,250; Feb. 18.
- Bruson, Herman A., Rydal, and W. D. Niederhauser, Philadelphia, Pa., assignors to The Resinous Products & Chemical Company. High molecular weight glycols. 2,415,335; Feb. 4.
- Bruson, Herman A., Rydal, and W. D. Niederhauser and H. Iserson, assignors to The Resinous Products & Chemical Company, Philadelphia, Pa. Unsaturated bicyclic glycols. 2,417,100; Mar. 11.
- Bruson, Herman A., and W. D. Niederhauser, assignors to The Resinous Products & Chemical Company, Philadelphia, Pa. Unsaturated 1,3-glycols. 2,418,290; Apr. 1.
- Bruson, Herman A., and G. B. Butler, assignors to Rohm & Haas Company, Philadelphia, Pa. Nitro-alcohol esters of mono-allyl maleate. 2,425,144; Aug. 5.
- Brustman, Joseph A.: See—  
Galella, Pasquale F., and Brustman.
- Brustowsky, Morris, Brooklyn, N. Y., assignor to U. S. Slicing Machine Company, La Porte, Ind. Feed mechanism. 2,415,233; Feb. 4.
- Bruun, Knud I., assignee: See—  
Volpin, Alexander S.
- Bryan, George H., Brighton, assignor to Gleason Works, Rochester, N. Y. Machine for hardening gears. 2,421,989; June 10.
- Bryan, James H.: See—  
Shepard, Hugh M., and Bryan.
- Bryan, Robert H., Oak Park, and T. L. Johnston, Wilmette, assignors to Stewart-Warner Corporation, Chicago, Ill. Loop antenna shield. 2,419,480; Apr. 22.
- Bryan, Walter, East Finchley, London, assignor to Simms Motor Units Limited, London N. 2, England. Electric ignition apparatus. 2,426,921; Sept. 2.
- Bryans, Harvey M.: See—  
Palmer, Kendrick, Kugler, and Bryans.
- Bryant Chucking Grinder Company, assignee: See—  
Arms, Merton H.  
Cornell, Elton S.  
Ljunggren, Thor H.  
Moore, Willis F.
- Bryant, Donald D., Huntington, W. Va. Dust guard. 2,429,867; Oct. 28.
- Bryant, Edwin F., Corona, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Preparing pectinates. 2,418,865; Apr. 15.
- Bryant, Edwin F., Corona, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Preparing pectinates. 2,418,866; Apr. 15.
- Bryant, Edwin F., Corona, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Pectic substances and their preparation. 2,419,883; Apr. 29.
- Bryant Electric Company, The, assignee: See—  
Hodgkins, Charles H.
- Bryant, Eugene E., Bedford, assignor to Ferro Enamel Corporation, Cleveland, Ohio. Porcelain enamel. 2,414,633; Jan. 21.
- Bryant, Frank D., Wethersfield, Conn., assignor to Royal Electric Company, Inc., Pawtucket, R. I. Electric plug. 2,422,393; June 17.



- Bryant Heater Company, The, assignee: *See*—  
Higley, Frank R.
- Bryant, Herbert W., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Temperature compensated microphone. 2,429,988; Nov. 4.
- Bryant, James G., Jr., Port Huron, Mich. Pulley mounting. 2,417,467; Mar. 18.
- Bryant, Newton W., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Object locating system. 2,422,182; June 17.
- Bryce, James W., Glen Ridge, N. J., assignor to International Business Machines Corporation, New York, N. Y. Statistical machine controlled by magnetic frequency coded records. 2,427,383; Sept. 16.
- Bryce, James W., Glen Ridge, N. J., assignor to International Business Machines Corporation, New York, N. Y. Statistical machine controlled by colored photographic film. 2,431,024; Nov. 18.
- Bryson, Boyd, deceased, by M. Bryson, executrix, assignor to Bryson Manufacturing Co. Inc., Clifton, N. J. Sewing machine. 2,419,006; Apr. 15.
- Bryson Manufacturing Co. Inc., assignee: *See*—  
Bryson, Boyd.
- Bryson, Margaret, executrix: *See*—  
Bryson, Boyd.
- Buc, George L.: *See*—  
Stearns, Edwin L., Jr., and Buc.
- Buchanan, John C., Ypsilanti, and I. H. Reindel, Grosse Pointe Park, Mich., assignors to Borg-Warner Corporation, Chicago, Ill. Automatic defroster assembly. 2,429,449; Oct. 21.
- Buchanan, Leslie B. M., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Heat exchange apparatus in refrigeration systems. 2,421,773; June 10.
- Buchanan, Royal S., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Heat breaker strip construction for spaced wall insulated cabinets. 2,425,027; Aug. 5.
- Buchanan, Stephen N., Westmoreland Hills, Md., and J. O. Johnson, Teaneck, N. J., assignors, by mesne assignments, to Harvey Hubbell, Inc. Electrical connector. 2,424,966; Aug. 5.
- Bucher, Francis X.: *See*—  
Mumma, Robert E., and Bucher.
- Bucher-Guyer, Johann, Niederweningen, Switzerland. Rotary fruit mill combined with rotary discharge conveyor. 2,416,043; Feb. 18.
- Bucher, Simon, and J. J. Johnson, Milwaukee, Wis. Ladder support attachment. 2,432,189; Dec. 9.
- Buchheim, Albert, assignor to Hercules Electric & Manufacturing Co., Inc., Brooklyn, N. Y. Metal-working machine. 2,429,387; Oct. 21.
- Buchholz, Arnold R.: *See*—  
Halfpap, William G., and Buchholz.
- Buchsbaum, Herbert: *See*—  
Meyerson, Joseph J., and Buchsbaum.
- Buchsbaum, S., and Company, assignee: *See*—  
Meyerson, Joseph J., and Buchsbaum.
- Buchwald, Charles E., and S. K. Shull, assignors to Western Electric Company, Incorporated, New York, N. Y. Forming vacuum tubes. 2,415,412; Feb. 11.
- Buck, Johannes S., East Greenbush, and R. Baltzly, assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y. Unsymmetrically substituted piperazines. 2,415,785; Feb. 11.
- Buck, Johannes S., East Greenbush, and R. Baltzly, assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y. Unsymmetrically substituted piperazines. 2,415,786; Feb. 11.
- Buck, Johannes S., East Greenbush, and R. Baltzly, assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y. Unsymmetrically substituted piperazines. 2,415,787; Feb. 11.
- Buck, William H.: *See*—  
Musselman, Henry E., and Buck.
- Buckbee, John A., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Scanning and focusing yoke. 2,414,925; Jan. 28.
- Buckbee, John A., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Unidirectional voltage generator. 2,424,214; July 22.
- Buckbee, John A., Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Electron multiplier gain control. 2,432,654; Dec. 16.
- Buckendale, Lawrence R., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Vehicle steering spindle mounting. 2,421,007; May 27.
- Buckendale, Lawrence R., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Multispeed drive axle. 2,426,593; Sept. 2.
- Buckendale, Lawrence R., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Hydrodynamic brake. 2,429,989; Nov. 4.
- Buckendale, Lawrence R., and R. K. Super, assignors to The Timken-Detroit Axle Company, Detroit, Mich. Brake mechanism. 2,432,983; Dec. 23.
- Buckeye Steel Castings Company, The, assignee: *See*—  
Orr, Claude L., and Stertzbach.
- Wolfe, Harry H.
- Buckingham, Francis S., Glenolden, Pa., assignor to The Baldwin Locomotive Works. Testing machine grip. 2,431,165; Nov. 18.
- Buckingham, William D., and E. E. Bedell, Southampton, assignors to The Western Union Telegraph Company, New York, N. Y. Lamp base and socket. 2,416,285; Feb. 25.
- Buckles, Thomas A., Portland, Ore. Water heating apparatus. 2,423,578; July 8.
- Buckley, Donald J., North Plainfield, N. J., and R. L. Smith, Otego, N. Y., assignors to Industrial Tape Corporation, North Brunswick, N. J. Adhesive material. 2,415,276; Feb. 4.
- Buckley, Eric S., Potters Bar, England. Electrical circuit making and breaking devices. 2,416,736; Mar. 4.
- Buckley, Garfield T., Jr., Chicago, Ill. Carbon paper pack. 2,431,729; Dec. 2.
- Buckley, Gerard D., and H. A. Piggott, Blackley, Manchester, England, assignors to Imperial Chemicals Industries Limited. Anthraquinone dyestuffs. 2,426,547; Aug. 26.
- Buckley, Gerard D., and R. L. Heath, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Nitronitriles. 2,428,614; Oct. 7.
- Buckley, Oliver E., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Detection of large magnetic bodies. 2,415,808; Feb. 18.
- Bucklin, Herbert, assignor to Goodall-Sanford, Inc., Sanford, Maine. Screen printing. 2,421,410; June 3.
- Bucknam, James H., Cranford, and I. P. Thompson, Elizabeth, N. J., assignors to The Linde Air Products Company. Blow pipe nozzle. 2,425,709; Aug. 19.
- Bucknam, James H., Cranford, and I. P. Thompson, Elizabeth, N. J., assignors to The Linde Air Products Company. Blow pipe nozzle. 2,425,710; Aug. 19.
- Bucknell, Anita R., assignee: *See*—  
Bucknell, William H.
- Bucknell, Ernest H., and R. E. Bletcher, assignors of ten per cent to R. E. Bletcher, twelve and one-half per cent to E. H. Bucknell, twelve and one-half per cent to M. Bucknell, ten per cent to P. W. Bletcher, twenty-five per cent to M. B. Liston, ten per cent to J. H. Bletcher, 10 per cent to H. B. Skinner, and ten per cent to C. R. B. Robinson, Los Angeles, Calif. Shower head. 2,423,960; July 15.
- Bucknell, Mabel, assignee, et al.: *See*—  
Bucknell, Ernest H., and Bletcher.
- Bucknell, William H., assignor of one-half to A. R. Bucknell, Norwalk, Conn. Heat insulated receptacle. 2,424,434; July 22.
- Buckner, Orello S., Northboro, assignor to Bay State Abrasive Products Company, Westboro, Mass. Aluminum phosphate bonded diamond abrasive. 2,420,859; May 20.
- Bucko, John, Gary, Ind. Supporting torches in oxyacetylene cutting machines. 2,433,734; Dec. 30.
- Buckwalter, Howard M., Detroit, Mich., assignor to United States Rubber Company, New York, N. Y. Treatment of cellulosic fibres. 2,422,078; June 10.
- Buckwalter, Tracy V., Massillon, assignor to The Timken Roller Bearing Company, Canton, Ohio. Crank pin bearing. 2,418,245; Apr. 1.
- Bucky, Gustav, New York, N. Y. Camera shutter system. 2,422,077; June 10.
- Bucyrus-Erie Company, assignee: *See*—  
Hoar, Roger S.  
Mork, George W.  
Reischl, Karl E.  
Stevens, Paul S.
- Buckowski, Paul, Detroit, Mich. Teeter totter. 2,433,735; Dec. 30.
- Buda Company, The, assignee: *See*—  
Richards, Dwight.
- Budan, Herman W., Los Angeles, Calif. Faucet spray nozzle. 2,416,737; Mar. 4.
- Budd Company, The, assignee: *See*—  
Adams, Comfort A., Fletcher, and Stocker.  
Adams, Comfort A., and Strickland.  
Baker, Paul E.  
Blackinton, George W., and Calhoun.  
Callender, Edwin M.  
Coombes, Joseph H.  
Dean, Albert G.  
Dean, Walter B.  
Dean, Walter B. and A. G.  
Eksergian, Carolus L.  
Eksergian, Carolus L.  
Eksergian, Carolus L., and Gaenssle.  
Eksergian, Rupen.  
Eksergian, Rupen, and Bergholm.  
Farr, Warren H.  
Farr, Warren H., and Eksergian.  
Gaenssle, Paul W.  
Hill, Carl H., and Schneider.  
Horton, Reuben H., Eksergian, and Harwick.  
Ledwinka, Joseph.  
Mann, William.  
Pagon, Garret D.  
Ragsdale, Earl J. W., and Ledwinka.  
Schumacher, Reuben J.  
Somes, Howard E.  
Somes, Howard E., Jr., and Marquardt.



Budd Company, The, assignee: *See*—Continued.

- Strickland, Harold A., Jr.  
 Tarbox, John P.  
 Temple, Robert B.  
 Theriault, Raymond J.  
 Trautvetter, George.  
 Ulrich, Theodore.  
 Ulrich, Theodore, and Lindsay.  
 Warnick, Alan.  
 Watter, Michael.  
 Watter, Michael, and Bender.  
 Watter, Michael, and Dean.  
 Watter, Michael, and Pancoe.  
 Weightman, William A.  
 Wohler, Stanley A.
- Budd, Edward G., Manufacturing Company, assignee: *See*—  
 Whitesell, John C., Jr.  
 Budenbom, Horace T., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Direction finder. 2,414,798; Jan. 28.  
 Budenbom, Horace T., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Direction finder. 2,423,437; July 8.  
 Budenbom, Horace T., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electromagnetic wave reflection system. 2,432,984; Dec. 23.
- Budlane, Stanley J.: *See*—  
 Mather, Irwin E., Allen, and Budlane.  
 Budlane, Stanley J., assignor to The Herman Nelson Corporation, Moline, Ill. Combustion chamber structure for heat exchangers. 2,421,370; June 3.  
 Budlane, Stanley J., assignor to The Herman Nelson Corporation, Moline, Ill. Heat exchanger. 2,421,371; June 3.
- Budnick, Jack, assignee: *See*—  
 De Rugeris, John.  
 Budnick, Joseph F., Forest Hills, N. Y. Scale compass. 2,425,862; Aug. 19.
- Budreck, Frances, Chicago, and B. Jelinek, La Grange, assignors to Monarch Tool & Machinery Co., Chicago, Ill. Cap for gasoline tank filler pipe. 2,431,458; Nov. 25.
- Buechler, John H., Chicago, Ill. Shoe heel. 2,419,670; Apr. 29.
- Buegeleisen, Joseph, Detroit, Mich. Motorcycle saddle bag. 2,423,003; June 24.
- Buehler, Allan M., assignor to Eastern Steel Products Limited, Preston, Ontario, Canada. Suspending means for hoppers. 2,415,934; Feb. 18.
- Buehler, Ernest, Chatham Township, Morris County, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Resistor. 2,418,460; Apr. 8.
- Buehner, Otto, assignee: *See*—  
 Walker, Charles G., and Gustafson.
- Buell, James A., Vallejo, and F. A. Reiter, Contra Costa, Calif. Crutch. 2,426,594; Sept. 2.
- Buell, Charles K., and R. G. Boatright, Jr., Bartlesville, Okla., assignors to Phillips Petroleum Company. Catalytic alkylation of hydrocarbons. 2,431,166; Nov. 18.
- Buell, Halsey W.: *See*—  
 Goepfert, George J., and Buell.
- Buell, Lewis W.: *See*—  
 Bolesky, John D., and Buell.
- Buell, Lewis W., Rehoboth, assignor to Metals & Controls Corporation, Attleboro, Mass. Electrical terminal clip. 2,425,670; Aug. 12.
- Buell, Lewis W., Rehoboth, assignor to Metals & Controls Corporation, Attleboro, Mass. Generator protector. 2,427,440; Sept. 16.
- Buell, Lewis W., Rehoboth, assignor to Metals & Controls Corporation, Attleboro, Mass. Split phase motor control. 2,431,025; Nov. 18.
- Buell, Lewis W., Rehoboth, assignor to Metals & Controls Corporation, Attleboro, Mass. Electrical terminal clip. 2,431,366; Nov. 25.
- Buerkl, Christian E., and H. L. Mekelburg, assignors to "Cutler-Hammer Inc., Milwaukee, Wis. Rotary snap action mechanism. 2,426,667; Sept. 2.
- Buescher, Wilbert C., Alhambra, assignor to General Controls Co., Glendale, Calif. Control device. 2,425,990; Aug. 19.
- Buese, William W., St. Louis, Mo. Adjustable mounting for steerable wheel spindles. 2,428,651; Oct. 7.
- Buettner, Otto A., Pittsburgh, Pa. Composite aircraft. 2,421,742; June 10.
- Buffalo Brake Beam Company, assignee: *See*—  
 Busch, Charles R.
- Buffalo Electro-Chemical Company, Inc., assignee: *See*—  
 Kauffmann, Hans O., McEwen, Shanley, and Hopkins.
- Buffalo Machinery Company, Inc., assignee: *See*—  
 Miller, Frank A.
- Buffenbarger, James F., assignor to The Gardner-Richardson Company, Middletown, Ohio. Carton construction. 2,426,484; Aug. 26.
- Buffington, Malcolm R., Millburn, and E. G. Jegge, Montclair, assignors to Lea Fabrics, Inc., Newark, N. J. Chevron packing ring. 2,420,929; May 20.
- Buffmire, Allan H., Detroit, Mich. Game. 2,415,073; Feb. 4.

- Buford, William J., Houston, Tex. Window wind brace. 2,417,233; Mar. 11.
- Bugg, Kenly C., Fort Wayne, Ind. Zero-setting device for registers. 2,419,762; Apr. 29.
- Bugg, Kenly C., Fort Wayne, Ind. Registering mechanism and computing device. 2,429,259; Oct. 21.
- Bugg, Kenly C., and H. L. Hart, Fort Wayne, Ind.; said Hart assignor to said Bugg. Tool for beading and flaring tubes. 2,430,554; Nov. 11.
- Buhler, Eugen, Cedar Grove, N. J., assignor to International Business Machines Corporation, New York, N. Y. Alphabetic interpreter. 2,424,076; July 15.
- Builder-Thompson Engineering and Research Corporation, assignee: *See*—  
 Thompson, Tom H.
- Builders Iron Foundry, assignee: *See*—  
 Miner, Irving O.
- Buist, Jack M., D. A. Harper, W. F. Smith, and G. N. Welding, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Paraformaldehyde treatment of reaction products of diisocyanate with linear polyesters and linear polyester-amides and products resulting therefrom. 2,424,885; July 29.
- Buklot, Edmund V., Stevens Point, Wis. Adjustable support. 2,433,023; Dec. 23.
- Bulbulian, Arthur H., Rochester, Minn. Mask structure. 2,433,088; Dec. 23.
- Bulger, William A., Stamford, Conn., assignor to Petroleum Heat and Power Company, New York, N. Y. Heater. 2,419,626; Apr. 29.
- Bulifant, Theodore A., Hackensack, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Vulcanizate of copolymer of butadiene and styrene having dispersed therein paracoumarone resin and filler. 2,426,165; Aug. 26.
- Bulifant, Theodore A., Hackensack, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Vulcanization of butadiene-styrene copolymer. 2,427,942; Sept. 23.
- Bulifant, Theodore A., Hackensack, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Vulcanization of butadiene-styrene copolymer having dispersed therein paracoumarone resin and filler. 2,430,385; Nov. 4.
- Bull, William C., deceased, by V. B. Hull, New York, N. Y., administratrix. Hospital walking exercise panel. 2,427,761; Sept. 23.
- Bullard Company, The, assignee: *See*—  
 Bullard, Edward P., III, and Mussler.
- Bullard, Edward P., III, Fairfield, Conn. Control mechanism. 2,427,493; Sept. 16.
- Bullard, Edward P., III, Fairfield, and F. H. Mussler, Stratford, Conn., assignors to The Bullard Company. Machine tool. 2,423,223; July 1.
- Bulldog Electric Products Company, assignee: *See*—  
 Frank, William H.  
 Platz, Elwood T.  
 Robertson, William, and Higgins.
- Bullock, Ellis W., Birmingham, Ala., assignor to Fly Ash Arrestor Corporation. Ash collector. 2,415,935; Feb. 18.
- Bullock, Harry L.: *See*—  
 Smith, Carlos B., and Bullock.
- Bullock, Sarah M., assignee, et al.: *See*—  
 Bruen, George C.
- Bulmer, William C., Aspinwall, assignor to Reliance Steel Products Company, McKeesport, Pa. Furnace door frame. 2,427,547; Sept. 16.
- Bulova Watch Company, assignee: *See*—  
 Bigelow, Julian H., Harris, and Schweizer.
- Bulova Watch Company, Inc., assignee: *See*—  
 Beeh, Louis.
- Bumann, Ulrich, Putnam, Conn. Clip opening device for tenting frames. 2,414,010; Jan. 7.
- Bumgarner, Moses T., San Diego, Calif. Metal hook. 2,421,990; June 10.
- Bundy, Francis P., Medford, Mass., assignor to the United States of America, as represented by the Secretary of the Navy. Magnetostrictive oscillator. 2,431,026; Nov. 18.
- Bundy, Oswald M., assignor to The Clark Controller Company, Cleveland, Ohio. Motor control with emergency stop. 2,431,459; Nov. 25.
- Bundy Tubing Company, assignee: *See*—  
 Snively, Andrew J.
- Bunker, Ralph A., Syracuse, N. Y. Elastic shoe upper. 2,428,262; Sept. 30.
- Bunnell, Earl C., assignor to The Baird Machine Company, Stratford, Conn. Continuous operation multipindle machine. 2,425,726; Aug. 19.
- Bunnell, Edward D.: *See*—  
 Austin, Harold O., and Bunnell.
- Bunney, William E., Millstone, and C. Nigg, Princeton, N. J., assignors to E. R. Squibb & Sons, New York, N. Y. Antigens of the lymphogranuloma-venereum-psittacosis group of agents and preparing them. 2,415,234; Feb. 4.
- Bunten, Claude L., Rawlins, Wyo. Bilge drain for boats. 2,421,479; June 3.
- Bunting Brass & Bronze Company, assignee: *See*—  
 Yager, George F.
- Bunting, Hugh W., Liberal, Kans. Torque measuring screw driver. 2,429,450; Oct. 21.



- Bunyan, Paul, Bait Company, The, assignee: *See—*  
Larson, Karl R.
- Bunyard, Kenneth L., Flushing, N. Y. Aircraft control mechanism. 2,416,375; Feb. 25.
- Buquor, Adolph P., Washington, D. C., assignor to Martin-Parry Corporation, York, Pa. Firing platform for artillery. 2,425,783; Aug. 19.
- Burby, Philip E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,428,062; Sept. 30.
- Burch, Lyndon W., Pelham, N. Y., assignor to The Wilcolator Company, Newark, N. J. Heat responsive device having separate minimum flame and normal flame responsive elements. 2,418,867; Apr. 15.
- Burch, Lyndon W., Bronxville, N. Y., assignor to The Wilcolator Company, Newark, N. J. Heating system. 2,422,526; June 17.
- Burch, Roy F., Sr., Denver, Colo. Self-sharpening shears. 2,420,650; May 20.
- Burch, Roy F., Sr., Denver, Colo. Hair-waving rod. 2,421,008; May 27.
- Burchfield, Robert D., Wilkingsburg, Pa., assignor, by mesne assignments, to the United States of America, as represented by the Atomic Energy Commission. Bridge unbalance indicating means. 2,431,915; Dec. 2.
- Burckhalter, Joseph H., Detroit, A. L. Rawlins, Grosse Pointe Woods, F. H. Tendick, Grosse Pointe Park, E. M. Jones, Grosse Pointe Woods, and W. F. Holcomb, assignors to Parke, Davis & Company, Detroit, Mich. Quinoline compounds and making same. 2,419,199; Apr. 22.
- Burckhalter, Joseph H., Detroit, A. L. Rawlins, Grosse Pointe Woods, F. H. Tendick, Grosse Pointe Park, E. M. Jones, Grosse Pointe Woods, and W. F. Holcomb, assignors to Parke, Davis & Company, Detroit, Mich. Acridine compounds and making same. 2,419,200; Apr. 22.
- Burckhalter, Joseph H., Detroit, E. M. Jones and A. L. Rawlins, Grosse Pointe Woods, F. H. Tendick, Grosse Pointe Park, and W. F. Holcomb, assignors to Parke, Davis & Company, Detroit, Mich. Amino-substituted acridines and method of making the same. 2,428,355; Oct. 7.
- Burckle, Arthur A., assignor to Aero-Coupling Corporation, Burbank, Calif. Fabricated high-pressure coupling. 2,433,425; Dec. 30.
- Burdett, Philip H., Bridgeport, and J. H. Hodgson, Westport, Conn., assignors to Remington Arms Company, Inc. Ammunition. 2,425,418; Aug. 12.
- Burdick, Everette M.: *See—*  
Dworschack, Robert G., and Burdick.
- Burdick, Nelson E.: *See—*  
Peck, Cecil C., and Burdick.
- Burdick, Will S., Wauwatosa, and K. Schneider, Greendale, assignors to Harnischfeger Corporation, Milwaukee, Wis. Excavator dipper construction. 2,427,897; Sept. 23.
- Buren, Asa J., Cullom, Ill. Corrugated belting. 2,423,579; July 8.
- Burge, John E. P., Coventry, assignor to Humber Limited, Stoke, Coventry, England. Joint for sectionalized electric distribution systems. 2,421,480; June 3.
- Burge, John E. P., Coventry, assignor to Humber Limited, Stokes, Coventry, England. Electrical distribution system. 2,422,336; June 17.
- Burgener, Karl L., Villa Park, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Interexchange trunking telephone system. 2,428,549; Oct. 7.
- Burgener, Karl L., Villa Park, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Cyclic control means for line relays. 2,428,550; Oct. 7.
- Burger, Frederick W., Niles, assignor to Clark Equipment Company, Buchanan, Mich. Safety wheel. 2,428,551; Oct. 7.
- Burger, Walter R., Vincennes, Ind. Electric soldering iron. 2,430,666; Nov. 11.
- Burgess Battery Company, assignee: *See—*  
Burgess, Jackson.  
Lawson, Herbert E.
- Burgess, Charles F., Bokelia, Fla., assignor, by mesne assignments, to O. W. Storey, Wheaton, as trustee for the partnership of O. W. Storey & Associates, Chicago, Ill. Capillary transducer. 2,416,978; Mar. 4.
- Burgess, Frank: *See—*  
Gray, James J., and Burgess.
- Burgess, Harry A., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Phase correcting arrangement for electronic type selecting systems. 2,433,340; Dec. 30.
- Burgess, Jackson, Glencoe, assignor, by mesne assignments, to Burgess Battery Company, Freeport, Ill. Freezer alarm and means for energizing same. 2,433,024; Dec. 23.
- Burgess, Neil, Melrose, Mass., assignor to General Electric Company. Gas turbine. 2,429,990; Nov. 4.
- Burgess, Russell H., Chicago, Ill. Heat exchange unit. 2,431,228; Nov. 18.
- Burgess, Wilfrid M., Cohoes, N. Y. Cartridge feeding mechanism. 2,415,413; Feb. 11.
- Burgin, James, Oakland, assignor to Shell Development Company, San Francisco, Calif. Isomerizing olefins using boric oxide on alumina as catalyst. 2,422,884; June 24.
- Burgin, Martha, Mrs., assignee, et al.: *See—*  
Timoney, Andrew J.
- Burgy, Charles J., Cleveland, Ohio, assignor to The Elwell-Parker Electric Company. Antiplugging device. 2,414,357; Jan. 14.
- Burlitz, Robert S., Bloomfield, and N. T. Williams, East Orange, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Cathode assembly for magnetrons. 2,414,581; Jan. 21.
- Burk, Paul W.: *See—*  
Chadwick, George A., and Burk.
- Burk, Robert E., and E. C. Hughes, Cleveland Heights, assignors to The Standard Oil Company, Cleveland, Ohio. Constant viscosity hydraulic fluid compositions. 2,423,927; July 15.
- Burk, Robert E., D. D. Coffman, and G. H. Kalb, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of difluoroethane. 2,425,991; Aug. 19.
- Burk, Robert E., and E. C. Hughes, Cleveland Heights, assignors to The Standard Oil Company, Cleveland, Ohio. Catalysis of hydrocarbons. 2,432,505; Dec. 16.
- Burkard, Perle N.: *See—*  
Wegst, Walter F., and Burkard.
- Burke, George F. C.: *See—*  
Knowlton, Cutler D., and Burke.
- Burke, George F. C., Fairhaven, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Circular article workholder. 2,432,137; Dec. 9.
- Burke, Harold J., U. S. Navy. Duplex pressure proportioner. 2,421,372; June 3.
- Burke and James, Inc., assignee: *See—*  
Drucker, George A.
- Burke, James P., Poland, Ohio, assignor to F. L. McLaughlin, Detroit, Mich. Nut. 2,430,555; Nov. 11.
- Burke, Joseph M., Newark, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Device for finding centers of areas. 2,414,634; Jan. 21.
- Burke, Robert F., assignor to Boiler Engineering & Supply Co., Phoenixville, Pa. Tube bending machine with pivotal sweep arm. 2,414,926; Jan. 28.
- Burke, Stella M. M., Los Angeles, Calif. Equalizer. 2,423,550; July 8.
- Burke, William J., Marshallton, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Sulfur-containing polymers and their preparation. 2,416,434; Feb. 25.
- Burke, William J., Marshallton, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. N (acylthiomethyl) carbonylamides and their production. 2,418,497; Apr. 8.
- Burke, William J., Marshallton, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Organic solvent soluble derivatives of cellulose and preparing the same. 2,418,498; Apr. 8.
- Burke, William J., Marshallton, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. 2-alkoxy-methylmercapto-thiazoles and thiazolines and preparing the same. 2,418,499; Apr. 8.
- Burke, William J., Marshallton, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of sulfur-containing polymers. 2,419,943; May 6.
- Burkett, Howard: *See—*  
McElvain, Samuel M., and Burkett.
- Burkhalter, Harry D., Jr., Bowling Green, Ohio. Change-speed transmission. 2,417,406; Mar. 18.
- Burkhalter, Robert R.: *See—*  
Peterson, Carl D., and Burkhalter.
- Burkhardt, George R., Chicago, Ill. Treating metals with Noble gases. 2,426,814; Sept. 2.
- Burkhardt, Otto M., Cleveland, Ohio. Clearance regulator. 2,418,110; Apr. 1.
- Burkhardt, Otto M., Cleveland, Ohio. Clearance regulating device for internal-combustion engine valves. 2,433,089; Dec. 23.
- Burkhardt, Thomas E., assignor to General Motors Corporation, Dayton, Ohio. Cleaning, stripping, and polishing metal surfaces. 2,428,141; Sept. 30.
- Burkhart, Lorin E., Peabody, Mass. Boiler and hot-water heater. 2,431,460; Nov. 25.
- Burkholder, Alden H.: *See—*  
Kline, Hayden B., and Burkholder.
- Burkholder, Alden H., Cleveland, G. P. Standley, Cleveland Heights, and K. M. McLellan, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Apparatus for making cord and the like. 2,419,055; Apr. 15.
- Burkholder, Wilbur K., Shippensburg, Pa. High-pressure spray gun. 2,431,730; Dec. 2.
- Burkitt, Henry L., assignee: *See—*  
Mazzarelli, Augustine M.
- Burleigh, Arthur C., Wellesley, Mass. Sanding or rubbing machine. 2,418,246; Apr. 1.
- Burleson, Howard A., assignor to Mouldings, Inc., Indianapolis, Ind. Demountable device for punching tubes. 2,419,534; Apr. 29.
- Burley, Joseph C., Milton, Mass. Electric cable. 2,416,979; 2,416,979; Mar. 4.
- Burlin, Edgar M.: *See—*  
Lidow, Eric, and Burlin.
- Burling, Herbert S., South Orange, N. J. Temperature controlling device. 2,420,352; May 13.



- Burman & Sons Limited, assignee: *See*—  
Briggs, Thomas H. and W. H.
- Burndy Engineering Company, Inc., assignee: *See*—  
Bonwill, Wilhelm F.  
Dupre, Henry P.  
Ge Wertz, Arthur L.  
Matthysse, Irving F.  
Rogoff, Julian.  
Rogoff, Julian, and Matthysse.
- Burner, Bingham F., Arlington, Va. High chair and tie for reinforcing rods. 2,420,860; May 20.
- Burnett, Henry J., assignor to United Aircraft Corporation, East Hartford, Conn. Apparatus for burning holes in metal. 2,427,588; Sept. 16.
- Burnett, John W., Chicago, Ill., assignor to Reynolds Metals Co., Richmond, Va. Railway tank car. 2,420,121; May 6.
- Burnett, Lee, Toledo, Ohio. Educational entertainment device. 2,432,655; Dec. 16.
- Burnett, Raymond S., and E. J. Roberts, New Orleans, La., assignors to United States of America, as represented by the Secretary of Agriculture. Vegetable protein hydrates. 2,421,113; May 27.
- Burnett, Robert M.: *See*—  
Moorman, Charles L., and Burnett.
- Burnham, Virgil A., Saco, Maine, assignor to Saco-Lowell Shops, Boston, Mass. Top roll weighting mechanism. 2,430,706; Nov. 11.
- Burns, Bob, Machinery Company, assignee: *See*—  
Burns, Robert B.
- Burns, Bruce, Los Angeles, Calif. Cigarette machine. 2,430,491; Nov. 11.
- Burns, Bruce, assignor to The Garrett Corporation, Aircsearch Manufacturing Company division, Los Angeles, Calif. Reinforced elliptical oil cooler. 2,424,795; July 29.
- Burns, Frank D., Long Beach, assignor to The Hays Corporation, Michigan City, Ind. Follow-up apparatus. 2,415,458; Feb. 11.
- Burns, Frank D., Long Beach, assignor to The Hays Corporation, Michigan City, Ind. Stabilizer for process controllers. 2,416,980; Mar. 4.
- Burns, Laurence, Swampscott, assignor to Sylvania Electric Products Inc., Salem, Mass. Interdigital magnetron. 2,432,466; Dec. 9.
- Burns, Robert B., assignor to Bob Burns Machinery Company, Fort Worth, Tex. Tile forming machine. 2,427,044; Sept. 9.
- Burns, Robert J.: *See*—  
Welle, Glenn B., and Burns.
- Burns, Thomas S., Chicago, Ill. Weedless fishhook guard. 2,424,599; July 29.
- Burnside, Harvey E. W., and H. J. Ogorzaly, Elizabeth, N. J., assignors to Standard Oil Development Company. Catalytic process and apparatus. 2,414,852; Jan. 28.
- Burr, Arthur A., assignor to Armstrong Cork Company, Lancaster, Pa. Fine wire strain gauge. 2,415,082; Feb. 4.
- Burrall, Edward L., assignee: *See*—  
Vest, Joe R.
- Burrell, Harry, Paramus, P. I. Bowman, Passaic, and R. H. Barth, Ridgewood, N. J. Artificial waxes comprising reaction products of maleic anhydride and partial esters of stearic acid and polyhydric alcohols of the pentaerythritol series. 2,427,255; Sept. 9.
- Burrell Technical Supply Company, assignee: *See*—  
Holmes, Donald C.
- Burroughs Adding Machine Company, assignee: *See*—  
Muller, Robert L.
- Burroughs Wellcome & Co. (U. S. A.) Inc., assignee: *See*—  
Buck, Johannes S., and Baltzly.  
Hitchings, George H., and Ellon.  
Pingert, Frederick P., and Ferry.
- Burroughs Wellcome & Co. (U. S. A.) Incorporated, assignee: *See*—  
Walton, Eric, and Green.
- Burrows, Allen, Providence, R. I. Generator testing stand. 2,418,332; Apr. 1.
- Burrows, Allen, Providence, R. I. Inspection hole cover for motor vehicle brake casings. 2,420,353; May 13.
- Burrows, Frederick A., Wilmette, assignor to Oak Mfg. Co., Chicago, Ill. Vibrator. 2,427,898; Sept. 23.
- Burrows, Lawton A., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Blasting cap. 2,427,899; Sept. 23.
- Burrows, Lawton A., Woodbury, N. J., G. H. Loving, Huntington, W. Va., and R. R. Nydegger and G. H. Smith, Wilmington, Del. Ignition device. 2,420,651; May 20.
- Burrows, Lewis M.: *See*—  
Allen, Earle F., and Burrows.
- Burrows, Robert J., and A. O. Williams, Battle Creek, assignors to Clark Equipment Company, Buchanan, Mich. Swing link construction. 2,422,885; June 24.
- Burrows, Roscoe T., Mystic, Conn. Lawn mower sharpener. 2,429,547; Oct. 21.
- Burt, F. N., Company, assignee: *See*—  
Morrison, Charles C.
- Burt, F. N., Company, Inc., assignee: *See*—  
Dickerman, Harry K.  
Wells, William J.
- Burt, Fred, assignee, et al.: *See*—  
Harmon, Luther R.
- Burt, Fred C., New Hudson, Mich. Trailer front wheel and steering device. 2,430,906; Nov. 18.
- Burt, Guy H., assignee, et al.: *See*—  
Gasser, Frank P.
- Burt, Harold A., St. Albans, N. Y., assignor to Mergenthaler Linotype Company. Slug casting machine using a hand stick. 2,426,166; Aug. 26.
- Burt, Harry M., assignee, et al.: *See*—  
Gasser, Frank P.
- Burt Manufacturing Company, The, assignee: *See*—  
Rutter, Walter.
- Burtle, Jerome G.: *See*—  
Fleischer, Joseph, and Burtle.
- Burtle, Jerome G., Alton, Ill., assignor to Olin Industries, Inc. Explosive purification. 2,418,753; Apr. 8.
- Burton, Edward F.: *See*—  
Glasgow, Charles S., and Burton.
- Burton, Harry H., Worcester, Mass., assignor, by mesne assignments, to Aerovox Corporation. Mica splitting process and apparatus. 2,419,056; Apr. 15.
- Burton, Lawrence A.: *See*—  
Mason, Charles R., and Burton.
- Burton, Reed H., C. L. Herman, Pittsburgh, and J. R. De Otto, West View, assignors to The Amsler-Morton Company, Pittsburgh, Pa. Furnace control. 2,432,279; Dec. 9.
- Burton, Samuel, Los Angeles, Calif. Shirt pocket. 2,432,378; Dec. 9.
- Burton, Walter E., Akron, Ohio. Measuring gauge for machine tools. 2,419,815; Apr. 29.
- Burt-Wells, Sidney G., assignor to Triumph Dishwashers Limited, Toronto, Ontario, Canada. Dishwashing machine. 2,429,090; Oct. 14.
- Burwell, Benjamin H., trustee, assignee, et al.: *See*—  
Melrose, Adolph E.
- Busacker, John W., and R. L. Maneval, Houston, Tex., assignors to the United States of America, as represented by the Secretary of the Navy. Setback switch. 2,431,027; Nov. 18.
- Busby, Guy L., Glendale, Calif. Vacuum sealer. 2,416,900; Mar. 4.
- Busby, Marvin L., Whittier, Calif. Pull-out device for deep well pumps. 2,414,254; Jan. 14.
- Busch, Aloysius J., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching system. 2,426,595; Sept. 2.
- Busch, Aloysius J., Madison, N. J., and J. W. Dehn, Great Neck, N. Y., and W. Whitney, Madison, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Time measuring device. 2,414,443; Jan. 21.
- Busch, Charles R., Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. Car brake head. 2,419,312; Apr. 22.
- Busch, Charles R., Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. End guided brake beam. 2,427,548; Sept. 16.
- Busch, Fred, Wauwatosa, and A. Wild, assignors, by mesne assignments, to American Thermo Appliance Co., Milwaukee, Wis. Steam electric iron. 2,419,705; Apr. 29.
- Busch Precision Camera Corporation, assignee: *See*—  
Little, Alfred E.
- Busche, Adolph: *See*—  
Lindner, Karl A., Morrison, and Busche.
- Buselmeier, Norman T., Houston, Tex. Arch support for wooden clogs. 2,415,459; Feb. 11.
- Bush, A. G., assignee: *See*—  
Criner, Harry J.
- Bush, Arthur G., Davenport, Iowa. Reciprocating blade type slicing machine. 2,420,930; May 20.
- Bush, Burton T., Inc., assignee: *See*—  
Daniels, Ralph, and Levy.
- Bush, Ean L., San Francisco, Calif. Transmission and steering mechanism. 2,427,710; Sept. 23.
- Bush, Elijah B.: *See*—  
Brown, Thomas J., and Bush.
- Bush, Eugene S., Portland, Oreg. Nail straightener. 2,426,340; Aug. 26.
- Bush, Ralph R.: *See*—  
Baskerville, Ralph J., and Bush.
- Bush, Rankin J.: *See*—  
Hewitt, Ellis E., Bush, and Glass.
- Bushko, George, Eynon, Pa. Adjustable door hinge. 2,427,384; Sept. 16.
- Bushland, Raymond C.: *See*—  
Jones, Howard A., and Bushland.
- Bushnell, Arthur A., Port Crane, N. Y. Eye cover. 2,415,384; Feb. 4.
- Bushue, Lee B., Spokane, Wash. Seeder. 2,415,577; Feb. 11.
- Busignies, Henri G.: *See*—  
Deloraine, Edmond M., Labin, and Busignies.
- Busignies, Henri G., Forest Hills, assignor to International Standard Electric Corporation, New York, N. Y. Receiving system for radio interception. 2,414,444; Jan. 21.
- Busignies, Henri G., Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation. Signal transmission system. 2,416,286; Feb. 25.
- Busignies, Henri G., Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation. Direction finding system. 2,419,671; Apr. 29.



- Busignies, Henri G., Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation. Directional antenna array. 2,419,672; Apr. 29.
- Busignies, Henri G., Forest Hills, assignor to International Standard Electric Corporation, New York, N. Y. Impulse radiation obstacle detector. 2,423,082; July 1.
- Busignies, Henri G., Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation. Direction finder system. 2,424,967; Aug. 5.
- Busignies, Henri G., Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation. Directive antenna system. 2,424,968; Aug. 5.
- Busignies, Henri G., Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Direction finder. 2,426,175; Aug. 26.
- Busignies, Henri G., Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Direction finder. 2,426,176; Aug. 26.
- Busignies, Henri G., Forest Hills, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Radio navigation system and method. 2,433,341; Dec. 30.
- Busignies, Henri G., Forest Hills, and P. J. V. Woude, Riverdale, N. Y., assignors to Federal Telephone and Radio Corporation, Newark, N. J. Loop antenna. 2,419,673; Apr. 29.
- Busignies, Henri G., Forest Hills, N. Y., and A. G. Richardson, Boonton, N. J., assignors to Federal Telephone and Radio Corporation. Direction finding system. 2,421,009; May 27.
- Buske, Gilbert E., Anson Township, Chippewa County, assignor to National Pressure Cooker Company, Eau Claire, Wis. Internal-combustion engine. 2,428,199; Sept. 30.
- Buslawski, Thaddens W., Detroit, Mich. Circuit controlling device. 2,419,819; Apr. 29.
- Busque, Charles S., St. Gideon de Beauce, Quebec, Canada, assignor to O. Busque, New York, N. Y. Dismountable endless tread tractor unit for power vehicles. 2,426,816; Sept. 2.
- Busque, Olvida, assignee: *See*—  
Busque, Charles S.
- Buss Machine Works, assignee: *See*—  
Dick, M. Everet.
- Busse, Edwin E., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake beam structure. 2,419,115; Apr. 15.
- Busse, Francis A.: *See*—  
Wilson, John M., and Busse.
- Busse, Francis A., and J. M. Wilson, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Condition control apparatus. 2,423,478; July 8.
- Bussey, William H., Chicago, assignor, by mesne assignments, to O. W. Storey, Wheaton, as trustee for the partnership of O. W. Storey & Associates, Chicago, Ill. Capillary electrometer apparatus. 2,431,367; Nov. 25.
- Bussièr, Wolcott H., Pittsfield, Mass. Coarse yarn catcher. 2,428,064; Sept. 30.
- Buswell, George A.: *See*—  
Manger, Charles F., Buswell, and Peberdy.
- Butacet Limited, assignee: *See*—  
Weizmann, Charles.
- Butler, Arthur N.: *See*—  
Graves, Jay, and Butler.
- Butler, Edgar M., New Orleans, La. Electrolytic water correction device. 2,424,145; July 15.
- Butler, George B.: *See*—  
Bruson, Herman A., and Butler.
- Butler, Henry E., Scotia, N. Y. Tape dispenser. 2,423,004; June 24.
- Butler, Henry J., Sutton Coldfield, assignor to Dunlop Rubber Company Limited, London County, England. Wheel brake apparatus. 2,428,552; Oct. 7.
- Butler, Howard, Walsall, England. Supporting means for the moving elements of electrical indicating instruments. 2,425,595; Aug. 12.
- Butler, James B., Dublin, Eire. Printed and coated fibrous material. 2,430,386; Nov. 4.
- Butler, John W., Bridgeport, Conn. Vise with auxiliary support. 2,429,801; Oct. 28.
- Butler, Johnnie R., Fort Worth, Tex. Gangway. 2,424,876; July 29.
- Butler, Marshall E., Raleigh, N. C. Remote electric metering device. 2,430,387; Nov. 4.
- Butler, Robert F., Estes Park, Colo. Convertible type furniture. 2,432,379; Dec. 9.
- Butman, Louis S., Merkel, Tex. Steam electric sad iron. 2,427,521; Sept. 16.
- Butscher, Karl, Bienne, assignor, by mesne assignments, to A.-G. Für Mechanisch-Optische Erfindungen, Chur, Switzerland. Image projecting comparison microscope. 2,423,370; July 1.
- Butscher, Karl, assignor to Maschinenfabrik H. Hauser A.-G., Bienne, Switzerland. Optical apparatus for comparing objects. 2,427,256; Sept. 9.
- Butterbaugh, Darrel J.: *See*—  
Spence, Le Roy U., and Butterbaugh.
- Butterbaugh, Darrel J., Philadelphia, and L. U. Spence, Elkins Park, assignors to Röhm & Haas Company, Philadelphia, Pa. Use of magnesia catalysts in the production of butadiene. 2,423,681; July 8.
- Butterworth, Harry W., Jr., Chestnut Hill, Pa., and S. and M. Cohn, New York, and J. G. Walter, Ridgewood, assignors to Samco Holding Corporation, New York, N. Y. Apparatus for feeding and drying fabrics. 2,427,943; Sept. 23.
- Buttery, Kenneth T., assignor to Sutherland Paper Company, Kalamazoo, Mich. Bag holder. 2,430,155; Nov. 4.
- Büttner, Hugo, Wuppertal-Vohwinkel, Germany; vested in the Attorney General of the United States. Spring filling for mattresses, sofas, seats, cushions or the like. 2,424,382; July 22.
- Butts, Richard R., Miamisburg, Ohio. Valve. 2,427,441; Sept. 16.
- Butz, Clarence, Muscatine, Iowa. Ham press. 2,425,727; Aug. 19.
- Buxton, Frederick L., North Hollywood, Calif. Adjustable skirt hanger. 2,423,961; July 15.
- Buxton, Incorporated, assignee: *See*—  
Broughton, Douglas J.  
Hawes, George E.
- Buxton, James E.: *See*—  
Hood, Edwin E., Christian, and Buxton.
- Buxton, James E., Elmira, assignor to Bendix Aviation Corporation, Elmira Heights, N. Y. Engine starter. 2,423,063; June 24.
- Buxton, James E., Elmira, assignor to Bendix Aviation Corporation, Elmira Heights, N. Y. Engine starter. 2,428,750; Oct. 7.
- Buxton, James E., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starter. 2,429,388; Oct. 21.
- Buxton, James E., and D. L. Miller, Chemung County, N. Y., assignors to Bendix Aviation Corporation, South Bend, Ind. Starting mechanism. 2,420,283; May 6.
- Buxton, Loran O.: *See*—  
Briod, André E., and Buxton.
- Buxton, Loran O., Maplewood, assignor to Nopco Chemical Company, Harrison, N. J. Natural or synthetic rubber stabilized by an antioxidant extracted from fatty oils. 2,430,556; Nov. 11.
- Buxton, Loran O., Newark, assignor to Nopco Chemical Company, Harrison, N. J. Antioxidants and producing same. 2,433,593; Dec. 30.
- Buxton, Loran O., East Orange, and S. T. Lipsius, Orange, assignors to Nopco Chemical Company, Harrison, N. J. Multivitamin compositions. 2,421,598; June 3.
- Buxton, Loran O., Newark, and C. E. Dryden, East Orange, assignors to Nopco Chemical Company, Harrison, N. J. Stabilizing marine oils. 2,426,485; Aug. 26.
- Buxton, Loran O., Newark, and C. E. Dryden, East Orange, assignors to Nopco Chemical Company, Harrison, N. J. Stabilization of fatty materials. 2,426,486; Aug. 26.
- Buyken, Frank E.: *See*—  
Johnson, Roy L., and Buyken.
- Buzzard, Robert W., Kensington, Md. Bath for and electrolytic treatment of magnesium and magnesium alloys. 2,414,090; Jan. 14.
- Buzzell, Maurice E., Mahtomedi, and G. W. Swenson, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Roofing granules and producing the same. 2,417,058; Mar. 11.
- Byard Manufacturing Company, Limited, assignee: *See*—  
Marder, Estella P., and Green.
- Bychinsky, Wilfred A., Ann Arbor, J. T. Ford, Grand Blanc, and W. S. Kirk, Flint, assignors to General Motors Corporation, Detroit, Mich. Prevention of seizure of metal parts. 2,419,252; Apr. 22.
- Byers Machine Company, The, assignee: *See*—  
Ferguson, Berlin S.
- Byers, Thomas A., Spokane, Wash. Egg separator. 2,430,156; Nov. 4.
- Bymark, Carl V., Biwabik, Minn. Tire inflator. 2,420,224; May 6.
- Byrd, Edwin E., Midland, Tex., assignor to Standard Oil Development Company. Apparatus for preventing contamination of well liners. 2,419,313; Apr. 22.
- Byrd, William, Jr., Princeton, N. J. Magnetic separator for removing finely divided magnetic material from liquids. 2,430,157; Nov. 4.
- Byrkit, Gordon D.: *See*—  
Lincoln, Bert H., and Byrkit.
- Byrnes, Irving F., Riverdale, N. Y., assignor to Radio Corporation of America. Radio alarm and two-way telephone system. 2,431,167; Nov. 18.
- Byrns, Alva C.: *See*—  
Reik, Richard, and Byrns.
- Byron Jackson Co., assignee: *See*—  
Ballagh, James C.  
Blom, Carl J.  
Mullinix, Gird E.
- C. A. V. Limited, assignee: *See*—  
Nicolls, Wilfrid E. W.
- C. B. Equipment Co., assignee: *See*—  
Harbers, Henry C.
- C. D. Patents Limited, assignee: *See*—  
Bangham, Donald H., Bennett, Brown, Hirst, Pirani, and Jennings.
- C-Eight Laboratories, assignee, et al.: *See*—  
Caruso, Mario.
- C. U. R. A. Patents Limited, assignee: *See*—  
Hales, John S., Murphy, and MacDonald.



- Cable, George W., New Castle, Del., and J. L. Richmond, Woodstown, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of thiuram polysulfides. 2,414,014; Jan. 7.
- Cabometer, Inc., assignee: *See*—Horn, Thurman.
- Cabot, Godfrey L., Inc., assignee: *See*—Bray, Richard I., Gabry, and Wendell.
- Brown, Owen J., Jr.  
Kistiakowsky, George B., and Benson, Loving, William.
- Cade, George N., Bartlesville, Okla., assignor to Phillips Petroleum Company. Alkylation of an organic compound with an olefin in presence of hydrofluoric acid. 2,431,685; Dec. 2.
- Cade, Phillip J., assignor to Photoswitch Incorporated, Cambridge, Mass. Control system with gas discharge tube. 2,429,451; Oct. 21.
- Cadman, George E., Ocean Park, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Forming device. 2,433,808; Dec. 30.
- Cadous, Alexander, New York, N. Y. Making matched fabrics. 2,419,389; Apr. 22.
- Cadous, Esther, New York, N. Y. Garment. 2,424,600; July 29.
- Cadwallader, Alvin A., assignor to Teleflex Incorporated, Philadelphia, Pa. Quick-acting connection. 2,425,992; Aug. 19.
- Caesar, George V., Staten Island, assignor to Stein, Hall & Company, Inc., New York, N. Y. Forming carbohydrate derivatives. 2,432,280; Dec. 9.
- Caesar, George V., Staten Island, N. Y., and T. D. Thompson, North Branch, N. J., assignors to Stein, Hall & Company, Inc., New York, N. Y. Dissociated starch and making the same. 2,417,969; Mar. 25.
- Caesar, Orville S., Barrington, assignor to The Greyhound Corporation, Chicago, Ill. Motor vehicle. 2,415,460; Feb. 11.
- Caesar, Orville S., Barrington, Ill. Ice-cube making machine and ejecting the contents of receptacles. 2,431,916; Dec. 2.
- Caffin, Milton D., New York, N. Y. Screw machine collet stop. 2,423,551; July 8.
- Cahill, Francis A., Cleveland, Ohio. Utensil and plate scraper. 2,417,585; Mar. 18.
- Cahill, Lysle D., Shaker Heights, assignor, by mesne assignments, to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Lubricant. 2,419,253; Apr. 22.
- Cahill, Robert E., Pasadena, Calif. Shoe construction. 2,414,445; Jan. 21.
- Cahn, Adolph, New York, N. Y., assignor to The United States Playing Card Company, Cincinnati, Ohio. Receptacle with lid-operated lifter. 2,430,707; Nov. 11.
- Caimi, Agostino, assignee, et al.: *See*—Engel, David.
- Caimi, Domenico, assignee, et al.: *See*—Engel, David.
- Cain, Elmer B.: *See*—Torsch, Charles E., and Cain.
- Cain, Elmer B., Collingswood, N. J., assignor to Radio Corporation of America. Cathode ray tube support. 2,428,928; Oct. 14.
- Cairns, Edward, Montclair, N. J. Headgear. 2,431,678; Dec. 2.
- Cairns, Robert W., assignor to Hercules Powder Company, Wilmington, Del. Explosive composition. 2,430,274; Nov. 4.
- Cairns, Theodore L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Sulfur containing polyamides. 2,430,859; Nov. 18.
- Cairns, Theodore L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyamide-formaldehyde reactions and products thereof. 2,430,860; Nov. 18.
- Cairns, Theodore L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nitrogen-substituted polyamides and process for obtaining same. 2,430,907; Nov. 18.
- Cairns, Theodore L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Obtaining N-alkoxy-methyl polyamides. 2,430,908; Nov. 18.
- Cakebread, Courtenay, Fortyhill, Enfield, England. Apparatus for spraying powders, atomized liquids, and the like. 2,421,183; May 27.
- Calbeck, John H., Columbus, Ohio, assignor to American Zinc, Lead & Smelting Company, St. Louis, Mo. Treating zinc oxides. 2,416,044; Feb. 18.
- Calderazzo, Dominick J., South Orange, N. J. Shoe. 2,422,947; June 24.
- Caldora, Armand, Brooklyn, N. Y. Curler. 2,426,760; Sept. 2.
- Caldwell, Hamilton, P., Jr., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. H F alkylation. 2,432,281; Dec. 9.
- Caldwell, John A., assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring, recording, and controlling apparatus. 2,423,479; July 8.
- Caldwell, John A., assignor to The Brown Instrument Company, Philadelphia, Pa. Multiple recording instrument. 2,423,480; July 8.
- Caldwell, John A., Philadelphia, and G. W. Barnes, Jr., Clifton Heights, assignor to The Brown Instrument Company, Philadelphia, Pa. Calibration mechanism for self-balancing potentiometers. 2,424,146; July 15.
- Caldwell, John F., Jr., Coral Gables, Fla. Aerial navigation instrument. 2,413,683; Jan. 7.
- Caldwell, Percy G., London, England. Combined electric resistance heater and battery charger. 2,427,713; Sept. 23.
- Caldwell, Walter A., West Kilbride, and D. G. Ashcroft, Saltcoats, Scotland, assignors to Imperial Chemical Industries Limited. Manufacture of heating cartridges. 2,418,333; Apr. 1.
- Caldwell, Walter T., assignor, by mesne assignments, to Valve Engineering Company, Enid, Okla. Pressure actuated valve. 2,432,088; Dec. 9.
- Calentine, George C., Seattle, Wash. Combination urn bag ring. 2,429,389; Oct. 21.
- Calfee, John D.: *See*—Sparks, William J., and Calfee.
- Young, David W., and Calfee.
- Calfee, John D., Manhasset, N. Y., and L. B. Smith, Woodbridge, N. J., assignors to General Chemical Company, New York, N. Y. Production of dichlorodifluoromethane. 2,417,059; Mar. 11.
- Calfee, John D., Westfield, and D. W. Young, Roselle, N. J., assignors to Standard Oil Development Company. Bonding rubber to metal by adhesive polymer. 2,423,755; July 8.
- Calfee, John D., Westfield, and R. M. Thomas, Union, N. J., assignors to Standard Oil Development Company. Olefinic polymerization pretreatment. 2,431,461; Nov. 25.
- Calfee, John D., Westfield, and R. M. Thomas, Union, N. J., assignors to Standard Oil Development Company. Low temperature polymerization process. 2,433,025; Dec. 23.
- Calhoun, Curtis L., Shreveport, La. Safety adjustable pipe stabbing board. 2,425,302; Aug. 12.
- Calhoun, Earl B., Shulls Mills, assignor to D. P. Lavietes, Boone, N. C. Chuck for frazing machines. 2,429,922; Oct. 28.
- Calhoun, Ingram X., Oklahoma City, Okla. Drill pipe manipulator. 2,416,815; Mar. 4.
- Calhoun, John J.: *See*—Blackinton, George W., and Calhoun.
- Calhoun, William N., assignee: *See*—Fletcher, Lawrence D.
- California Aero Glider Co., Inc., assignee: *See*—Jensen, Volmer S.
- California Flaxseed Products Company, assignee: *See*—Lasher, Edward A.
- California Fruit Growers Exchange, assignee: *See*—Adams, Joseph N.
- Baler, Willard E.
- Bryant, Edwin F.
- Higby, Ralph H.
- Thompson, Donald R.
- Wilson, Clarence W.
- California Institute Research Foundation, assignee: *See*—Haagen-Smith, Arle J.
- Pauling, Linus.
- Welch, David F.
- California Packing Corporation, assignee: *See*—Dunn, Guy A.
- California Research Corporation, assignee: *See*—Borsoff, Victor N., and Clayton.
- Claussen, William H., and Wellman.
- Danner, Philip S., and Mithoff.
- Eldredge, Kenneth R., and Edwards.
- Elwell, William E., and Furby.
- Farrington, Bruce B., Clayton, and Rutherford.
- Farrington, Bruce B., Humphreys, and MacDonald.
- Goodale, R. Wayne.
- Holm, Melvin M.
- Oakley, Eugene H., and Brooke.
- Postlewaite, William R.
- Rutherford, John T., and Miller.
- Stewart, William T.
- Callaghan, Robert W., and R. H. Schilling, Minneapolis, Minn., assignors to General Mills, Inc. Wheat starch process. 2,418,621; Apr. 8.
- Callahan, Charles F., Memphis, Tenn. Cotton chopper. 2,414,507; Jan. 21.
- Callahan, Charles F., Memphis, Tenn. Fire finding switch. 2,431,443; Nov. 25.
- Callahan, Jay: *See*—Green, William G., and Callahan.
- Callan, William D., Cincinnati, Ohio, assignor to The Philip Carey Manufacturing Company. Thermal insulated conduit. 2,430,275; Nov. 4.
- Callaway, John R., Teaneck, N. J., assignor to The Texas Company, New York, N. Y. Catalytic isomerization of saturated hydrocarbons in the presence of an aluminum halide-hydrocarbon complex saturated with aluminum halide. 2,417,187; Mar. 11.
- Callaway Mills, assignee: *See*—Asbill, Clarence M., Jr.
- Parker, Samuel P.
- Callcar, Thomas E.: *See*—Sun, Kuan-Han, and Callcar.
- Callender, Edwin M., Cynwyd, assignor to The Budd Company, Philadelphia, Pa. Electronic arc welder. 2,426,964; Sept. 2.
- Callender's Cable & Construction Company Limited, assignee: *See*—Hamilton, George M.
- Hollingsworth, Douglas T.



- Callis, Conral C.: *See*—  
McGarvey, Alan R., and Callis.
- Callison, William E., Dallas, Tex. Article dispensing machine. 2,429,510; Oct. 21.
- Callite Tungsten Corporation, assignee: *See*—  
Kurtz, Jacob, Waldie, and Spina.
- Calo, Carlo, Iron Mountain, Mich. Drum stand. 2,433,594; Dec. 30.
- Calow, Andreas F. O., Albany, N. Y. Tool setting height gauge. 2,417,234; Mar. 11.
- Calton, Robert G., Nashville, Tenn. Method of and apparatus for porcelain enameling sheet metal. 2,428,307; Sept. 30.
- Calumet and Hecla Consolidated Copper Company, assignee: *See*—  
Clifford, George E.  
Schuler, Otto R.
- Calvert, Francis E., assignor to The Drackett Company, Cincinnati, Ohio. Phenol-formaldehyde-protein plastic materials for extrusion or injection. 2,424,383; July 22.
- Calvin, Kate H., Los Angeles, Calif. Maternity skirt. 2,420,769; May 20.
- Calway, Walter R., Portland, Oreg. Sand spike. 2,414,358; Jan. 14.
- Cambridge Rubber Company, assignee: *See*—  
Bingham, George H., Jr.
- Cambron, Adrien, and F. L. W. McKim, assignors to The Honorary Advisory Council for Scientific and Industrial Research, Ottawa, Ontario, Canada. Preparation of silver catalysts. 2,426,761; Sept. 2.
- Camburn, Elwyn, Logan, Utah. Casting rod. 2,421,240; May 27.
- Cameron, Allister M.: *See*—  
Hammond, Charles P., and Cameron.
- Cameron, Daniel D., assignor to Hercules Powder Company, Wilmington, Del. Coating composition. 2,415,160; Feb. 4.
- Cameron Iron Works, assignee: *See*—  
Allen, Herbert.
- Cameron, Walter G., and T. H. Morton, Braintree, assignors to Courtaulds Limited, London, England. Modifying the dyeing properties of cellulose or cellulose derivative textile materials. 2,418,696; Apr. 8.
- Cameron, William J., Chicago, Ill. Apparatus for reading blood-pressure and pulse. 2,421,114; May 27.
- Camerota, Louis A., Burlington, assignor to Florence Pipe-Foundry & Machine Company, Florence, N. J. Multi-platen press and loading means therefor. 2,420,813; May 20.
- Camerson, William J., assignee: *See*—  
Sheffele, Arthur L.
- Camilleri, Charles, assignor to Bordon Mfg. Co., Inc., Detroit, Mich. Electrode holder. 2,415,671; Feb. 11.
- Camilli, Guglielmo, Pittsfield, and J. Penvenne, Lenox, Mass., assignors to General Electric Company. Temperature measuring system. 2,427,900; Sept. 23.
- Caminiti, Antonio, Los Angeles, Calif. Rotary motor. 2,415,124; Feb. 4.
- Camloc Fastener Corporation, assignee: *See*—  
Allen, Rex W.  
Cannova, George.
- Camp, Elza Q., Goose Creek, Tex., assignor to Standard Oil Development Company. Prevention of corrosion. 2,415,161; Feb. 4.
- Camp, Percy B., Maywood, Ill., assignor to Universal Railway Devices Company. Brake operating mechanism. 2,416,251; Feb. 18.
- Camp, Thomas P.: *See*—  
Robertson, John A., Camp, and Kolmodin.
- Camp, Thomas P., Arlington Heights, assignor to United States Gypsum Company, Chicago, Ill. Water-resistant gypsum products and making. 2,432,963; Dec. 16.
- Campagnano, Leo, Rockaway Park, N. Y. Bag. 2,416,816; Mar. 4.
- Campanelli, Blanche H.: *See*—  
Campanelli, John F. and B. H.
- Campanelli, John F. and B. H., Audubon Village, N. J. Support for washboards. 2,431,539; Nov. 25.
- Campanella, Joseph L., Bristol, R. I., assignor to Fields Point Manufacturing Corporation. Treating wool scour water with calcium hypochlorite. 2,429,868; Oct. 28.
- Campbell, A. S. Co. Inc., assignee: *See*—  
Hill, Hillary L.
- Campbell, Alvin A., Hackettstown, N. J. Transfer mechanism. 2,420,299; May 13.
- Campbell, Arthur W., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Carbamate plasticizers for natural and synthetic rubber. 2,433,595; Dec. 30.
- Campbell, Daniel C.: *See*—  
Groebe, John L., Reeves, and Campbell.
- Campbell, David J.: *See*—  
Baker, Willard L., Campbell, and Good.
- Campbell, David J., Richmond Hill, H. Harris, Cedarhurst, and A. A. Hauser, Garden City, N. Y. Apparatus for range parallax correction. 2,429,606; Oct. 28.
- Campbell, Donald J., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Bleaching cotton textile goods. 2,426,142; Aug. 19.
- Campbell, Donald L.: *See*—  
Gohr, Edwin J., Campbell, Graham, and Thompson.  
Kleiber, Carl E., Campbell, Stines, and Atkins.  
Kleiber, Carl E., Campbell, Stines, and Nelson.  
Murphree, Eger V., Tyson, Campbell, and Martin.  
Thompson, William I., and Campbell.  
Tyson, Charles W., Campbell, Martin, and Murphree.
- Campbell, Donald L., Short Hills, N. J., assignor to Standard Oil Development Company. Controlling catalyst-oil ratio by use of a venturi. 2,424,147; July 15.
- Campbell, Donald L., Short Hills, and H. Z. Martin, Cranford, N. J., assignors to Standard Oil Development Company. Catalytic treatment of hydrocarbons. 2,431,462; Nov. 25.
- Campbell, Erwin A.: *See*—  
Woolslaver, Homer J., Campbell, and Jenkins.
- Campbell, Frank J., assignor to Industrial Sewing Machine Service, Los Angeles, Calif. Thread rack. 2,431,917; Dec. 2.
- Campbell, George E., Elmwood Park, Ill. Doll with magnetic eye movement. 2,427,442; Sept. 16.
- Campbell, Harris S., Bryn Athyn, assignor to Autogiro Company of America, Philadelphia, Pa. Pitch control for aircraft sustaining rotors. 2,428,200; Sept. 30.
- Campbell, J. A., Co., assignee: *See*—  
Campbell, Joseph A., Jr., and Nist.
- Campbell, James R.: *See*—  
Tangeman, William H., and Campbell.
- Campbell, James R., Ontario, Calif., assignor to General Electric Company. Electric heater. 2,414,799; Jan. 28.
- Campbell, James R., Ontario, Calif., assignor to General Electric Company. Thermostatic control device. 2,415,672; Feb. 11.
- Campbell, James R., Laguna Beach, and A. G. Swenson, Ontario, Calif., assignors to General Electric Company. Turbine control device. 2,415,673; Feb. 11.
- Campbell, John A.: *See*—  
Huntley, Charles N., and Campbell.
- Campbell, John F., Detroit, Mich., assignor to G. M. and E. Holley. Carburetor for airplane engines. 2,427,834; Sept. 23.
- Campbell, John F., Detroit, Mich., assignor to G. M. and E. Holley. Fuel injection system. 2,427,835; Sept. 23.
- Campbell, John H., Schenectady, N. Y., assignor to General Electric Company. Starting and controlling apparatus for electric discharge lamps. 2,418,159; Apr. 1.
- Campbell, John H., Schenectady, N. Y., assignor to General Electric Company. Starting and controlling apparatus for electric discharge lamps. 2,418,160; Apr. 1.
- Campbell, John H., Schenectady, N. Y., assignor to General Electric Company. Starting and controlling apparatus for electric discharge lamps. 2,418,161; Apr. 1.
- Campbell, Joseph A., Jr., and E. C. Nist, assignors to J. A. Campbell Co., Seattle, Wash. Combustion chamber. 2,430,101; Nov. 4.
- Campbell, Julian A., Long Beach, Calif. Gas separator. 2,422,527; June 17.
- Campbell, Laurie J., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Novelty ornament. 2,427,257; Sept. 9.
- Campbell, Lester, assignor to Foster Machine Company, Westfield, Mass. Winding machine. 2,432,722; Dec. 16.
- Campbell, Lyman L.: *See*—  
Hodson, George F., and Campbell.
- Campbell, Richard C., North Plainfield, N. J. Folding shirts. 2,418,755; Apr. 8.
- Campbell, Ronel R., Patten, Maine, assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for coating heels. 2,417,102; Mar. 11.
- Campbell-Taggart Research Corporation, assignee: *See*—  
Selman, Roland W., Jr., and Myers.
- Campbell, Thomas P., assignee, et al.: *See*—  
Wright, Marcus G.
- Campbell, Thomas P., Denver, Colo. Titaniferous magnetite treatment. 2,417,101; Mar. 11.
- Campbell, Walter E., Greensboro, N. C. Soil displacement plow. 2,431,731; Dec. 2.
- Campbell, William G.: *See*—  
Hirschler, Carl J., and Campbell.
- Campbell, William M., Shawinigan Falls, Quebec, assignor to Shawinigan Chemicals Limited, Montreal, Quebec, Canada. Nitrile manufacture. 2,415,414; Feb. 11.
- Campos, Adolph, Clifton, N. J. Lighter construction. 2,417,630; Mar. 18.
- Campos, Adolph, Clifton, N. J. Cigarette dispenser. 2,417,631; Mar. 18.
- Campos, Adolph, Clifton, N. J. Lighter construction. 2,423,481; July 8.
- Campos, Adolph, Clifton, N. J. Lighter construction. 2,430,102; Nov. 4.
- Campos, Adolph, Clifton, N. J. Lighter construction. 2,430,103; Nov. 4.
- Campsmith, Robert J., Chicago, Ill. Screw driver and the like. 2,430,044; Nov. 4.
- Campula, Anton: *See*—  
Molner, John L., and Campula.
- Camras, Marvin: *See*—  
Vagtborg, Harold A., Camras, and Zenner.
- Camras, Marvin, assignor to Armour Research Foundation, Chicago, Ill. Reversible drive for a magnetic recording medium. 2,418,541; Apr. 8.
- Camras, Marvin, assignor to Armour Research Foundation, Chicago, Ill. Magnetizing and erasing head arrangement for magnetic recorders. 2,418,542; Apr. 8.



- Camras, Marvin, assignor to Armour Research Foundation, Chicago, Ill. Magnetic recording or reproducing device. 2,418,543; Apr. 8.
- Camras, Marvin, assignor to Armour Research Foundation, Chicago, Ill. Magnetic recording head. 2,428,449; Oct. 7.
- Camras, Marvin, assignor to Armour Research Foundation, Chicago, Ill. Magnetic recording head. 2,431,540; Nov. 25.
- Camras, Marvin, assignor to Armour Research Foundation, Chicago, Ill. Magnetic recording head. 2,431,541; Nov. 25.
- Camras, Marvin, Chicago, and R. E. Zenner, Brookfield, assignors to Armour Research Foundation, Chicago, Ill. Magnetic recorder utilizing an energizing oscillating circuit. 2,416,610; Feb. 25.
- Can, R. C., Company, assignee: *See—*  
Rutkowski, Walter L.
- Canaday, William K., Memphis, Tenn. Airplane wing structure. 2,419,332; Apr. 22.
- Canady, Don, Cleveland, Ohio. Motion picture projector. 2,424,739; July 29.
- Canal National Bank of Portland, The, assignee, trustee, et al.: *See—*  
Randall, Walter H.
- Canal National Bank of Portland, The, assignee, trustees: *See—*  
Randall, Walter H.
- Candland, Authnal L., Vista, Calif. Power driven reciprocating cutter. 2,422,221; June 17.
- Candlin, James E., Jr., Chicago, and H. L. Howe, Riverdale, assignors to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Vehicle lighting system. 2,421,680; June 3.
- Candor, Robert R., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,416,084; Feb. 18.
- Candy, Albert M., La Grange, assignor to Hollup Corporation, Chicago, Ill. Apparatus for electric welding of studs. 2,421,184; May 27.
- Candy, Charles M., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Desk telephone lifting device. 2,430,276; Nov. 4.
- Canfield, Bailey L., assignor to C. G. Conn, Ltd., Elkhart, Ind. Reel for magnetic recording apparatus. 2,427,193; Sept. 9.
- Canfield, Charles M., Utica, assignor to General Cable Corporation, New York, N. Y. Process and apparatus for vulcanization. 2,426,341; Aug. 26.
- Cann, Edward: *See—*  
Kann, Eduard.
- Cann, Harley S., Columbus, assignor to The Martin Brothers Box Co., Toledo, Ohio. Compartmented collapsible fiberboard container. 2,425,230; Aug. 5.
- Cannarilli, Ortenzio J., Brooklyn, and F. T. Klumpp, Bronx, N. Y. Tool guide. 2,428,201; Sept. 30.
- Cannella, Settimo, New York, N. Y. Handbag carrier. 2,428,906; Oct. 14.
- Cannon, Charles H., Jr.: *See—*  
Eaton, Bruce G., Jr., Meyer, Cannon, and Raiche.
- Cannon, George E.: *See—*  
Reistle, Carl E., Jr., and Cannon.
- Cannon, George E., Houston, Tex., assignor to Standard Oil Development Company. Drilling fluid. 2,417,235; Mar. 11.
- Cannon, Reginald: *See—*  
Ware, Richard N., Jr., and Cannon.
- Cannova, George, Flushing, assignor to Camloc Fastener Corporation, New York, N. Y. Fastener receptacle. 2,420,733; May 20.
- Cantalupo, Francis J.: *See—*  
Pennema, Richard, and Cantalupo.
- Cantle, Leicester G. H.: *See—*  
Reid, George H., and Cantle.
- Cantley, Joseph C.: *See—*  
Meyer, Vernon H., and Cantley.
- Cantley, Joseph C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Magazine. 2,421,052; May 27.
- Cantlin, John H., Auburn, Maine, assignor to Walter Kidde & Company, Inc. Safety device for fire extinguisher valves. 2,418,817; Apr. 15.
- Cantrell, Troy L.: *See—*  
Smith, Herschel G., Cantrell, and Peters.
- Canziani, Victor J., Brooklyn, and F. W. Stellwagen, Richmond Hill, assignors to Fairchild Camera and Instrument Corporation, Jamaica, N. Y. Removing plastic coating from a metal article. 2,417,468; Mar. 18.
- Cape, Arthur T.: *See—*  
Griswold, Howard L., and Cape.
- Cape, Arthur T., Columbus, and C. V. Foerster, assignors to Coast Metals, Inc., Canton, Ohio. Ferrous alloy. 2,422,948; June 24.
- Cape, Arthur T., Columbus, and C. V. Foerster, assignors to Coast Metals, Inc., Canton, Ohio. Ferrous alloy. 2,422,949; June 24.
- Capehart, Ashbourne D., Oxford, N. C. Apparel bagging device. 2,429,744; Oct. 28.
- Capell, Robert G., and R. C. Amero, assignors to Floridin Company, Warren, Pa. Desulfurizing adsorbent and preparing same. 2,433,426; Dec. 30.
- Capen, William H., Mountain Lakes, N. J., assignor to International Standard Electric Corporation, New York, N. Y. Radio traffic signaling system. 2,429,607; Oct. 28.
- Caplan, Sidney, Chicago, Ill. Combination egg poaching, boiling, and frying device. 2,419,674; Apr. 29.
- Capon, Leslie J. E., East Taphouse, and J. Carne, East Taphouse, near Liskeard, England; said Carne assignor to said Capon. Plough. 2,426,548; Aug. 16.
- Capp, Charles H., Philadelphia, Pa. Loud-speaker announcing system. 2,420,461; May 13.
- Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Apparatus and process for motion-picture color photography. 2,417,060; Mar. 11.
- Carbide and Carbon Chemicals Corporation, assignee: *See—*  
Baumann, Henry N., Jr., and Benner.  
Boese, Albert B., Jr.  
Feild, Theophilus A., Jr.  
Fowler, George W., and Fitzpatrick.  
Fremont, George H.  
Glenn, Roland D.  
Guest, Howard R., MacDowell, and McNamee.  
Hamilton, John P.  
Kratz, Edouard M.  
McNamee, Raymond W., and MacDowell.  
Powell, George M., 3rd, and Brister.  
Powell, George M., 3d, and Carlson.  
Powell, George M., 3rd, and Mullen.  
Quarles, Richard W.  
Roberts, Frederick H., and Fife.  
Rugeley, Edward W., and Feild.  
Rugeley, Edward W., Feild, and Petrokubi.  
Shriver, Leland C., and Fremont.  
Spessard, Clayton I.  
Staff, Charles E.  
Toussaint, Walter J., and Dunn.  
Toussaint, Walter J., and Fife.
- Carboly Company, Inc., assignee: *See—*  
Duncan, Hershel B.  
Pollacek, Steven D.  
Taylor, George F.
- Carbon, Harry B., assignor to The Parker Appliance Company, Cleveland, Ohio. Valve structure. 2,419,481; Apr. 22.
- Carbon, Harry B., assignor to The Parker Appliance Company, Cleveland, Ohio. Valve assembly. 2,432,225; Dec. 9.
- Carbone, Carl V., Hartford, Conn. Illuminated beer tap. 2,414,446; Jan. 21.
- Carborundum Company, The, assignee: *See—*  
Baumann, Henry N., Jr., and Benner.  
Geiger, Charles F.  
Goepfert, George J., and Buell.  
Heyroth, Albert H.  
Homeyer, Roger H.  
Kirchner, Henry P.  
McMullen, John C.  
Rushmer, Ralph H.  
Van Nimwegen, Garret, von Doenhoff, and Wooddell.  
Williamson, John A.
- Card, Ralph H., Hamburg Township, Livingston County, Mich., assignor to Fram Corporation. Filter cartridge package. 2,423,224; July 1.
- Card, William C., Jr., Winthrop, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Sole treating apparatus. 2,421,053; May 27.
- Card, William C., Jr., Winthrop, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Apparatus for treating shoe soles. 2,432,282; Dec. 9.
- Cardell, George A., New Britain, Conn. Safe lock. 2,427,122; Sept. 9.
- Cardona, Carlos J., North Hollywood, Calif. Tripod head. 2,429,803; Oct. 28.
- Cardone, Angelo B., Camden, N. J., and W. J. Gorman, Darby, and F. A. Rarick, Philadelphia, Pa. Grinding apparatus. 2,423,826; July 15.
- Cardox Corporation, assignee: *See—*  
Williamson, Hilding V.
- Cardwell, James R.: *See—*  
Tucker, Herbert E.
- Care, Richard L., Toronto, Ontario, Canada. Fare box. 2,415,990; Feb. 18.
- Caredio, Primo R.: *See—*  
Duccini, Gaetano, and Caredio.
- Carelock, Claude L., Douglas, Ga. Peanut harvester. 2,424,148; July 15.
- Carew, Herman, Easton, Pa., assignor to Dixie Cup Company, Chicago, Ill. Dispensing apparatus. 2,433,736; Dec. 30.
- Carey, Ernest L.: *See—*  
Carey, Harlan S.
- Carey, Harlan S., assignor to E. L. Carey, Wichita, Kans. Constant tension jig saw. 2,424,077; July 15.
- Carey, Philip, Manufacturing Company, The, assignee: *See—*  
Bowman, William C.  
Callan, William D.  
Esterberg, Gustave L., and MacArthur.  
Fasold, George A., and Greider.  
Fasold, George A., and Leibbrook.  
Greider, Harold W., and Fasold.  
Greider, Harold W., Fasold, and Bowman.



- Carey, Philip, Manufacturing Company, The, assignee: *See*—Continued.
- Johnston, George B.  
MacArthur, Roger A., and Greider.  
Smith, Fred W., Greider, and Becker.
- Cargile, Paul J., U. S. Navy. Oil drum unloading device. 2,414,447; Jan. 21.
- Carkhuff, Floyd B., Binghamton, assignor to Rice & Adams Corporation, Buffalo, N. Y. Milk strainer. 2,413,742; Jan. 7.
- Carl, Frederic W.: *See*—  
Hirsch, Louis M., and Carl.
- Carl, LeRoy R.: *See*—  
Bain, Clarence J., and Carl.
- Carlberg, Verne J., Warrenton, Mo. Base stand. 2,416,435; Feb. 25.
- Carlbon, Axel G. H., assignor to Svenska Aktiebolaget Bromsregulator, Malmo, Sweden. Variable load brake. 2,432,467; Dec. 9.
- Carleton, Wayne M., Shelby, and F. A. Post, assignors to The Fair Publishing House, New London, Ohio. Bumper card holder. 2,431,108; Nov. 18.
- Carlin, Benson, New York, N. Y., assignor to Sperry Products, Inc., Hoboken, N. J. Supersonic inspection. 2,431,862; Dec. 2.
- Carling, Helge, West Hartford, assignor to The Carling Tool & Machine Company, Hartford, Conn. Electric switch. 2,419,627; Apr. 29.
- Carling Tool & Machine Company, The, assignee: *See*—  
Carling, Helge.
- Carlson, Arnold, Trumbull, assignor to F. L. Lindstrom, Bridgeport, Conn. Securing laminations on a rotor shaft. 2,421,115; May 27.
- Carlson, August, Kansas City, Mo. Bottle dispensing apparatus. 2,424,303; July 22.
- Carlson, August, Kansas City, Mo. Bottle dispensing apparatus. 2,429,745; Oct. 28.
- Carlson, Bert G., Gates Mills, assignor to The Weatherhead Company, Cleveland, Ohio. Gyroscopic apparatus. 2,427,549; Sept. 16.
- Carlson, Carl A., Anchorage, Alaska. Tool handle. 2,433,198; Dec. 23.
- Carlson, Carl P., Tenaafy, R. W. Chesnut, Upper Montclair, and A. D. Knowlton, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical resonator. 2,426,177; Aug. 26.
- Carlson, Ejnar W.: *See*—  
Zimmer, John C., and Carlson.
- Carlson, Elmer T., Wyoming, Ohio, assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Bus bar duct system. 2,430,557; Nov. 11.
- Carlson, Eric G., Philadelphia, Pa., assignor to American Telephone and Telegraph Company. Control apparatus for forced drainage. 2,418,395; Apr. 1.
- Carlson, Frank E., Cleveland Heights, Ohio, assignor to General Electric Company. Light projection apparatus. 2,425,863; Aug. 19.
- Carlson, George J.: *See*—  
Ross, William E., and Carlson.
- Carlson, Gustaf H., and F. J. Pilgrim, Pearl River, assignors, by mesne assignments, to American Cyanamid Company, New York, N. Y. Vitamin B<sub>6</sub> intermediates. 2,417,541; Mar. 18.
- Carlson, Gustaf H., and F. J. Pilgrim, Pearl River, assignors, by mesne assignments, to American Cyanamid Company, New York, N. Y. Vitamin B<sub>6</sub> intermediates. 2,431,463; Nov. 25.
- Carlson, Gustav A., assignor to The Boye Needle Company, Chicago, Ill. Tatting shuttle. 2,420,861; May 20.
- Carlson, Harold A., University City, assignor to Carter Carburetor Corporation, St. Louis, Mo. Carburetor degasser. 2,415,336; Feb. 4.
- Carlson, Harold A., University City, and O. J. Eickmann, Normandy, assignors to Carter Carburetor Corporation, St. Louis, Mo. Carburetor. 2,417,734; Mar. 18.
- Carlson, Harold A., University City, assignor to Carter Carburetor Corporation, St. Louis, Mo. Antiprecipulator structure for carburetor. 2,418,011; Mar. 25.
- Carlson, John I., assignor to Carlson Tool & Machine Co., Aurora, Ill. Brush making machine. 2,415,083; Feb. 4.
- Carlson, John T., Dayton, Ohio, assignor to The Master Electric Company. Switch for air conditioning apparatus. 2,417,911; Mar. 25.
- Carlson, Harold A., University City, assignor to Carter Carburetor Corporation, St. Louis, Mo. Accelerating pump. 2,430,492; Nov. 11.
- Carlson, Joseph, Grosse Pointe Farms, Mich. Handle for fishing rods. 2,433,197; Dec. 23.
- Carlson, Raymond A., Rockford, assignor to Borg-Warner Corporation, Chicago, Ill. Friction clutch. 2,413,810; Jan. 7.
- Carlson, Roy E.: *See*—  
Lesparre, Jean N., and Carlson.
- Carlson, Theodore E.: *See*—  
Keight, Albert W., and Carlson.
- Carlson Tool & Machine Co., assignee: *See*—  
Carlson, John I.
- Carlson, Wendell L., Haddonfield, N. J., assignor to Radio Corporation of America. Direction finder. 2,419,987; May 6.
- Carlson, Wendell L., Princeton, N. J., assignor to Radio Corporation of America. Superheterodyne radio altimeter or locator. 2,424,796; July 29.
- Carlson, Wendell L., Princeton, N. J., assignor to Radio Corporation of America. Oscillator with beat frequency stabilization. 2,432,380; Dec. 9.
- Carlson, Wendell L., Lawrenceville, N. J., assignor to Radio Corporation of America. Centimeter wave detector. 2,427,087; Sept. 9.
- Carlson, Wendell L., and V. D. Landon, Princeton, N. J., assignors to Radio Corporation of America. Frequency modulated altimeter or distance indicator. 2,422,079; June 10.
- Carlson, Wilbur L., Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich. Distributor construction. 2,413,743; Jan. 7.
- Carlson, William A.: *See*—  
Keene, Walter L., and Carlson.
- Carlsson, John I., Sundbyberg, assignor to Rolling Fabriks-aktiebolag, Stockholm, Sweden. Abrasive belt grinding device. 2,433,427; Dec. 30.
- Carlston, Earl F.: *See*—  
Powell, George M., 3d, and Carlston.
- Carmichael, Emmett S., Jackson Heights, and T. G. Roehner, Malverne, assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Lubricant composition. 2,425,174; Aug. 5.
- Carmody, Marie O., administratrix: *See*—  
Carmody, William H.
- Carmody Research Laboratories, Inc., assignee: *See*—  
Carmody, William H.
- Carmody, William H., deceased, by M. O. Carmody, administratrix, assignor to Carmody Research Laboratories, Inc., Springfield, Ohio. Hydrogenating pinene resin. 2,416,901; Mar. 4.
- Carmody, William H., deceased, by M. O. Carmody, administratrix, assignor to Carmody Research Laboratories, Inc., Springfield, Ohio. Hydrogenating pinene resin. 2,416,902; Mar. 4.
- Carmody, William H., deceased, by M. O. Carmody, administratrix, assignor to Carmody Research Laboratories, Inc., Springfield, Ohio. Hydrogenating coumarone-indene resin. 2,416,903; Mar. 4.
- Carmody, William H., deceased, by M. O. Carmody, administratrix, assignor to Carmody Research Laboratories, Inc., Springfield, Ohio. Hydrogenating coumarone-indene resin. 2,416,904; Mar. 4.
- Carmody, William H., deceased, by M. O. Carmody, administratrix, assignor to Carmody Research Laboratories, Inc., Springfield, Ohio. Hydrogenating coumarone-indene resin. 2,416,905; Mar. 4.
- Carnagua, Harold E., and D. W. Kelbel, Muncie, Ind., assignors to Borg-Warner Corporation, Chicago, Ill. Automatic transmission. 2,414,359; Jan. 14.
- Carnagua, Harold E., and J. M. Simpson, Muncie, Ind., assignors to Borg-Warner Corporation, Chicago, Ill. Torque responsive clutch. 2,433,428; Dec. 30.
- Carnarius, Edwin H., Wynnewood, Pa., assignor to Publicker Industries Inc. Sterilizing carbohydrates and apparatus therefor. 2,423,580; July 8.
- Carne, John: *See*—  
Capon, Leslie E. J., and Carne.
- Carnegie, Herbert S., Stafford, R. J. Welsh, Rugby, and E. K. Wood, Stafford, assignors to The English Electric Company Limited, London, England. Ship propulsion power plant. 2,428,553; Oct. 7.
- Carnegie-Illinois Steel Corporation, assignee: *See*—  
Ayers, Maurice D.  
Backus, Earl R.  
Brabazon, Hugh G.  
Chase, Sherman.  
Debenham, William S.  
Deitrich, Epily C.  
Ehemann, George D., Jr., and Fickenscher.  
Egge, Klaus.  
Gordon, Henry S.  
Grunke, Arnold C., and Muddiman.  
Hays, Fred N.  
Hedges, Don F.  
Hoelscher, Arnold P.  
Holman, Robert W., Myers, and Rendel.  
Jaxthimer, Charles H.  
Marburg, Edgar.  
McLain, William R.  
Mebs, Erwin H.  
Pauls, Edwin A.  
Peterson, William J.  
Rendel, George H.  
Stewart, Robert G., Sr.  
Wells, Joseph H., and Wilson.  
Wilson, Philip J., Jr., Wells, and Sommerfeld.  
Winterkamp, Frederick.  
Woodworth, Laurin D.
- Carnell, Paul H., Bartlesville, Okla., assignor to Phillips Petroleum Company. Preparation of ethers. 2,430,388; Nov. 4.
- Carnier, Chester E., Chicago, Ill. Antisludge tool. 2,415,553; Feb. 11.
- Carnier, G., & Co., assignee: *See*—  
Bennett, Tom, and Hurst.
- Carnes, Albert R., Chilton, Tex. Blast duster. 2,425,419; Aug. 12.
- Carnes, Joseph J., Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Sulfosuccinate esters of p-tertiary-butylcyclohexanol. 2,414,015; Jan. 7.



- Carnes, Joseph J., Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Sulfosuccinate esters of p-secondary-butylcyclohexanol. 2,414,016; Jan. 7.
- Carnes, Joseph J., Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Purification of alkylarylsulfonates. 2,433,316; Dec. 23.
- Carney, Thomas P.: *See*—  
Cislak, Francis E., and Carney.
- Carney, Samuel C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Batch rectification. 2,415,337; Feb. 4.
- Carney Samuel C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Recovery of hydrogen chloride from admixture with propane and butanes. 2,416,467; Feb. 25.
- Carney, Samuel C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Effecting hydrocarbon conversion in the presence of a hydrogen halide and a fugitive metal halide catalyst. 2,429,218; Oct. 21.
- Carnrick, G. W., Company, assignee: *See*—  
Longfellow, Charles F., and Jackson.
- Carolyn Chenilles, Inc., assignee: *See*—  
Charles, Artis E.
- Carpenter, Adelbert G., Bedford, Ohio. Valve. 2,416,085; Feb. 18.
- Carpenter, Charles O.: *See*—  
Welk, Nelson S., and Carpenter.
- Carpenter, Edgar O., Van Nuys, Calif. Trap. 2,432,723; Dec. 16.
- Carpenter, John A., Long Beach, Calif. Hanger. 2,419,675; Apr. 29.
- Carpenter, John H., and C. N. Griffiths, U. S. Army. Gas purification method. 2,430,861; Nov. 18.
- Carpenter, Marion S., Nutley, N. J., assignor to Givaudan-Delawanna, Inc., New York, N. Y. Tertiary butyl derivative of hemimellitene and preparing same. Re. 22,930; Oct. 21.
- Carpenter, Marion S., Nutley, N. J., assignor to Givaudan-Delawanna, Inc., New York, N. Y. Nitro derivative of tertiary butyl hemimellitene and preparing same. Re. 22,944; Dec. 2.
- Carpenter, Otis R., Barberton, Ohio, and H. J. Kerr, Westfield, assignors to The Babcock & Wilcox Company, Rockleigh, N. J. Method and apparatus for metal coating metal pipes by electric fusion. 2,427,350; Sept. 16.
- Carpenter, Owen G., Sr., Pelham, N. Y. Camera and light support. 2,418,067; Mar. 25.
- Carpenter, Paul G., assignor to Hercules Powder Company, Wilmington, Del. Breaking petroleum emulsions. 2,425,175; Aug. 5.
- Carpenter, Russell, Three Rivers, Quebec, Canada. Steam joint. 2,424,969; Aug. 5.
- Carpenter-Stone, Inc., assignee: *See*—  
Stone, Albert R.
- Carpentier, Melbourne L.: *See*—  
Woolson, Harry T., and Carpentier.
- Carper, Earl R., Charleston, W. Va. Coin receptacle. 2,427,763; Sept. 23.
- Carr, Donald J., and W. A. Chelew, Los Angeles, Calif. Collapsible golf bag carrier. 2,414,017; Jan. 7.
- Carr, Edward L.: *See*—  
Smith, George E. P., Jr., and Carr.
- Carr, Edward W., and R. H. Peterson, assignors to Crane Co., Chicago, Ill. Wheel locking means. 2,418,396; Apr. 1.
- Carr, Floyd G., Lancaster, N. H. Motor scooter frame. 2,429,802; Oct. 28.
- Carr, James A., Maplewood, and A. L. Fox, Upper Montclair, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Installing aerial line wires. 2,430,451; Nov. 11.
- Carr, James J., Raleigh, N. C. Knee action rear wheel suspension. 2,420,462; May 13.
- Carr, John G., Akron, Ohio. Metal siding. 2,427,762; Sept. 23.
- Carr-Lowery Glass Company, assignee: *See*—  
Garwood Charles B.
- Carr, Trem, Hollywood, Calif. Dispensing package. 2,421,141; May 27.
- Carr, Walter E., Swampscott, Mass. Platform cover conforming machine. 2,429,306; Oct. 21.
- Carranza, Edouardo, Dunellen, N. J. Polartoscope. 2,423,371; July 1.
- Carrier Corporation, assignee: *See*—  
Goddard, Merrill B.  
Shawhan, Sam F.
- Carrier, George E., assignor to J. Robb & Co. Limited, Montreal, Quebec, Canada. Ski. 2,433,596; Dec. 30.
- Carrier, Robert M., Jr., Aurora, Ill. Conveying and processing apparatus. Re. 22,904; Aug. 12.
- Carrière, Cecil A., Schenectady, N. Y., assignor to General Electric Company. Electric control circuits. 2,421,991; June 10.
- Carrington, Blake W., assignor to The General Industries Company, Elyria, Ohio. Speed compensating motor drive for phonograph turntables. 2,421,911; June 10.
- Carroll, Burt H.: *See*—  
Chechak, Jonas J., and Carroll.
- Carroll, Burt H., L. G. S. Brooker, and J. Spence, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic emulsion sensitized with combination of merocyanine dye and a monomethinecyanine, a trimethinecyanine, a dimethinehemicyanine or a styryl dye. 2,430,558; Nov. 11.
- Carroll, Burt H., and L. G. S. Brooker, assignors to Eastman Kodak Company, Rochester, N. Y. Supersensitized silver halide emulsion. 2,432,468; Dec. 9.
- Carroll, Elbert H., West Boylston, Mass. Ski binding hitch. 2,425,993; Aug. 19.
- Carroll, Ellsworth W., San Carlos, assignor to S & W Fine Foods, Inc., San Francisco, Calif. Single stage fruit orienting and pitting machine. 2,413,861; Jan. 7.
- Carroll, Thomas, assignor to Massey-Harris Co. Ltd., Toronto, Ontario, Canada. Auger conveyor for combines. 2,426,922; Sept. 2.
- Carroll, Thomas E., New York, N. Y. Electric bipost lamp adaptor. 2,422,222; June 17.
- Carroll, William R., Washington, D. C. Tire loosening tool. 2,422,467; June 17.
- Carrozza, Elizabeth V., Woodside, N. Y. Lady's stocking protector. 2,426,668; Sept. 2.
- Carscallen, Henry M. and R. F. Newton, Redwood City, Calif.; said Newton assignor to said Carscallen. Scope. 2,430,862; Nov. 18.
- Carsey, Eugene A., Cincinnati, Ohio, and W. G. Stalker, Pittsburgh, Pa., assignors to The Kirk & Blum Manufacturing Company, Cincinnati, Ohio. Automatic shake-out hood. 2,420,520; May 13.
- Carson, Boyce C., Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chromium complex of monazo pyrazolone. 2,421,315; May 27.
- Carson, Clarence M., Cuyahoga Falls, assignor to Wingfoot Corporation, Akron, Ohio. Rubber derivatives. 2,414,018; Jan. 7.
- Carson, Clarence M., Cuyahoga Falls, assignor to Wingfoot Corporation, Akron, Ohio. Stabilized cyclized rubber compositions and sheet wrapping material coated therewith. 2,431,028; Nov. 18.
- Carson, Kenneth J., North Caldwell, and J. M. Kelly, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Electrolytic etching bath. 2,421,316; May 27.
- Carson, Lawrence E., Alhambra, Calif., assignor to Rigagig Toy Company, Chicago, Ill. Mechanical toy. 2,414,716; Jan. 21.
- Carson, Ray, Sr.: *See*—  
Oliver, Leo E., and Carson.
- Carson, William D., Muncie, Ind., assignor to General Motors Corporation, Detroit, Mich. Vent plug. 2,427,764; Sept. 23.
- Carsten, William H., Seattle, Wash. Thermostatic damper. 2,416,468; Feb. 25.
- Carswell, Thomas S., Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Cutting polymerized vinyl aromatic material. 2,420,284; May 6.
- Carter Carburetor Corporation, assignee: *See*—  
Bicknell, George M.  
Carlson, Harold A.  
Carlson, Harold A., and Eickmann.  
Coffey, Irven E.  
Hennemann, Raymond G.  
Henning, Otto.  
Korte, Alfred C.  
Martin, Charles L.  
Wassman, August H.
- Carter, Charles E., Kansas City, Mo., assignor to Phillips Petroleum Company. Lining catalyst chamber. 2,417,348; Mar. 11.
- Carter, Charlie F.: *See*—  
Carter, Henry M., C. F., and W. W.
- Carter, Clarence, Anderson, Ind. Mechanical floor clock. 2,413,744; Jan. 7.
- Carter, De Vere V., Dallas, Tex. Double pinion application of power. 2,428,142; Sept. 30.
- Carter, Edwin C., Rio Grande City, Tex. Artificial limb. 2,416,817; Mar. 4.
- Carter, Elmer C., West Milton, assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 2,433,647; Dec. 30.
- Carter, Elmer C., West Milton, and C. G. Dudis, assignors to The National Cash Register Company, Dayton, Ohio. Printing control means for cash registers. 2,416,792; Mar. 4.
- Carter Fabrics Corporation, assignee: *See*—  
Benn, George F.
- Carter, Frank F., Merkel, Tex. Cultivator shield. 2,433,199; Dec. 23.
- Carter, Franklyn Y., Dearborn, assignor to Detroit Lubricator Company, Detroit, Mich. Refrigeration system and expansion valve therefor. 2,415,338; Feb. 4.
- Carter, Franklyn Y., assignor to Detroit Lubricator Company, Detroit, Mich. Refrigerant flow controlling means. 2,432,859; Dec. 16.
- Carter, George I., Longmeadow, assignor to Harvey-Whipple, Incorporated, Springfield, Mass. Oil burner. 2,433,317; Dec. 23.
- Carter, Henry M., C. F., and W. W., Brundige, Ala. Peanut cleaner consisting of gaseous suspension and sifting means. 2,429,343; Oct. 21.



- Carter, James F., Alice, Tex. Milk cooler. 2,425,596; Aug. 12.
- Carter, John C., Concord, assignor to Tide Water Associated Oil Company, San Francisco, Calif. Manufacture of alkaline earth sulphates. 2,416,818; Mar. 4.
- Carter, John D., Lansdowne, assignor to Philadelphia Quartz Company, Philadelphia, Pa. Manufacture of water-resistant laminated articles. 2,414,360; Jan. 14.
- Carter, Leslie F., Leonia, N. J., assignor to Sperry Gyroscopic Company, Inc., Brooklyn, N. Y. Gyro magnetic compass system. 2,414,448; Jan. 21.
- Carter, Leslie F., Leonia, N. J., assignor to Sperry Gyroscopic Company, Inc. Gyro compass instrument. 2,431,304; Nov. 25.
- Carter, Leslie F., Leonia, N. J., and F. West, Jr., Westbury, assignors to Sperry Gyroscopic Company, Inc., Brooklyn, N. Y. Variable capacity pick-off for compass systems. 2,432,089; Dec. 9.
- Carter, Philip L., Media, and W. J. Coppock, Ridley Park, assignors to Sun Oil Company, Philadelphia, Pa. Soluble oil and producing same. 2,433,646; Dec. 30.
- Carter, Philip S., Rocky Point, N. Y., assignor to Radio Corporation of America. Antenna. 2,413,745; Jan. 7.
- Carter, Philip S., Rocky Point, N. Y., assignor to Radio Corporation of America. Antenna system. 2,413,951; Jan. 7.
- Carter, Philip S., Rocky Point, N. Y., assignor to Radio Corporation of America. Impedance matching circuit. 2,417,542; Mar. 18.
- Carter, Philip S., Rocky Point, N. Y., assignor to Radio Corporation of America. Antenna system. 2,417,808; Mar. 25.
- Carter, Philip S., Rocky Point, N. Y., assignor to Radio Corporation of America. Antenna system for radio drift indication. 2,425,303; Aug. 12.
- Carter, Philip S., Rocky Point, N. Y., assignor to Radio Corporation of America. Impedance matching device. 2,428,485; Oct. 7.
- Carter, Philip S., Port Jefferson, N. Y., assignor to Radio Corporation of America. Coupling circuit. 2,420,354; May 13.
- Carter, Philip S., Port Jefferson, N. Y., assignor to Radio Corporation of America. High frequency resonator and circuits therefor. 2,424,267; July 22.
- Carter, Ralph B., Company, assignee: *See—*  
Carter, Ralph B., Jr.
- Carter, Ralph B., Jr., Maywood, assignor to Ralph B. Carter Company, Hackensack, N. J. Digesting sludge arranged at different levels and apparatus therefor. 2,422,394; June 17.
- Carter, Ralph B., Jr., Maywood, assignor to Ralph B. Carter Company, Hackensack, N. J. Apparatus for effecting clarification of turbid liquids. 2,422,556; June 24.
- Carter, Sidney T., assignor to Economic Machinery Company, Worcester, Mass. Picker mechanism. 2,414,019; Jan. 7.
- Carter, Sidney T., assignor to Economic Machinery Company, Worcester, Mass. Article orienting mechanism. 2,426,433; Aug. 26.
- Carter, William R., assignor to Electric Machinery Manufacturing Company, Minneapolis, Minn. Frequency-matching system. 2,425,028; Aug. 5.
- Carter, William W.: *See—*  
Carter, Henry M., C. F., and W. W.
- Carthage Mills, Inc., assignee: *See—*  
Krug, Richard S.
- Cartledge, Frank, assignor to Goodman Manufacturing Company, Chicago, Ill. Material gathering and loading machine. 2,418,573; Apr. 8.
- Cartledge, Frank, assignor to Goodman Manufacturing Company, Chicago, Ill. Propulsion means for material gathering and loading machines. 2,430,104; Nov. 4.
- Carter, William G., and H. A. Duffy, Monrovia, Calif. Metal screen. 2,421,743; June 10.
- Cartun, Paul O., Cleveland Heights, Ohio, assignor to General Electric Company. Lamp base. 2,415,867; Feb. 18.
- Cartun, Paul O., Cleveland Heights, Ohio, assignor to General Electric Company. Filament supporting structure for incandescent lamps. 2,425,864; Aug. 19.
- Cartun, Paul O., Cleveland Heights, Ohio, assignor to General Electric Company. Filament supporting structure for incandescent lamps. 2,425,865; Aug. 19.
- Cartun, Paul O., Cleveland Heights, Ohio, assignor to General Electric Company. Electric lamp and seal therefor. 2,427,711; Sept. 23.
- Cartwright, Horace A., Gallon, Ohio. Apparatus for heating viscous material. 2,426,860; Sept. 2.
- Caruso, Anna, assignee, et al.: *See—*  
Caruso, Mario.
- Caruso, Anthony M., assignee, et al.: *See—*  
Caruso, Mario.
- Caruso, Isabella M., assignee, et al.: *See—*  
Caruso, Mario.
- Caruso, Josephine L., assignee, et al.: *See—*  
Caruso, Mario.
- Caruso, Maria R., assignee, et al.: *See—*  
Caruso, Mario.
- Caruso, Mario, Maplewood, N. J., assignor, by mesne assignments, to M. A. M. R., and R. V. Caruso, T. M. C. Teahan, and A. M. I. M., and J. L. Caruso, individually, and trading as C-E-Laboratories. Self-propelled traveling device. 2,431,542; Nov. 25.
- Caruso, Rosa V., assignee, et al.: *See—*  
Caruso, Mario.
- Cary, Francis C.: *See—*  
Hybinette, Sven E., and Cary.
- Cary, Francis C., assignor to S. E. Hybinette and himself, a partnership doing business as Hybinette and Cary, Wilmington, Del. Handling and utilizing large volumes of gases at low pressures. 2,426,669; Sept. 2.
- Cary, Philip E., Perryville, Md., L. F. Overholt, Riverside, C. J. Johnson, Chicago, and W. F. Borgerd, Riverside, Ill., assignors to International Harvester Company. Air circulation system for refrigerating apparatus. 2,416,153; Feb. 18.
- Casablancas High Draft Company Limited, assignee: *See—*  
Noguera, Joseph.
- Casanova, Louis A.: *See—*  
Marsh, Francis E., and Casanova.
- Casazza, Patsy, Sr., Paterson, N. J. Hair curling clasp. 2,426,258; Aug. 26.
- Casciani, Ferri, Lewistown, assignor to Niagara Alkali Company, Niagara Falls, N. Y. Purification of cellulosic material. 2,424,797; July 29.
- Casco Products Corporation, assignee: *See—*  
Johnson, Arthur A.  
Youhouse, Joseph.
- Case, J. I., Company, assignee: *See—*  
Krause, Norman R.  
MacGregor, Wallace F.  
Russell, Stanley D.  
Rutter, Alvah E.
- Case, Jacob F., assignor of fifty per cent to R. W. Cordes, Columbus, Ohio. Cable clamp. 2,426,859; Sept. 2.
- Case, Leslie C., Tulsa, Okla., assignor to Gulf Oil Corporation, Pittsburgh, Pa. Chemical treatment of oil wells for the prevention of corrosion and scale. 2,429,593; Oct. 28.
- Case, Leslie C., Tulsa, Okla., assignor to Gulf Oil Corporation, Pittsburgh, Pa. Chemical treatment of oil well liquids for preventing scale formation. 2,429,594; Oct. 28.
- Case, Lynn B., Bound Brook, assignor to John Waldron Corporation, New Brunswick, N. J. Hydraulic oscillator. 2,429,390; Oct. 21.
- Case, Ralph S., Montreal, Quebec, Canada. Laterally folding child's chair. 2,433,090; Dec. 23.
- Casella, Vincent, assignee: *See—*  
Lipani, Joseph.
- Casey, Charles L., Riverside, and J. B. Ryno, assignors to Reliable Sheet Metal Engineering Co., Chicago, Ill. Vending machine. 2,427,321; Sept. 9.
- Casey, Cora M., executrix: *See—*  
Gibson, Herschel V., and Casey.
- Casey, Elmer E.: *See—*  
Gibson, Herschel V., and Casey.
- Casey, Wiley F., Birmingham, Ala. Device for removing bricks. 2,413,746; Jan. 7.
- Cash, A. W., Company, assignee: *See—*  
Temple, Paul C.
- Cash, James, San Francisco, Calif. Electrical stove arrangement. 2,422,950; June 24.
- Cash, Joseph D., Jr., Cramerton, N. C. Loom dobby. 2,421,599; June 3.
- Cashion, Francis W., Buffalo, assignor to Allied Chemical & Dye Corporation, New York, N. Y. Preparation of N-substituted amides of beta-keto-carboxylic acids. 2,416,738; Mar. 4.
- Cashman, Aloysius F.: *See—*  
Lieber, Eugene, and Cashman.
- Casler, Adrien F., Willoughby, and J. J. Salo, Cleveland, Ohio, assignors to General Electric Company. Method and apparatus for the conveyance of articles in glass working apparatus. 2,427,712; Sept. 23.
- Casmire, Lyle J., Los Angeles, Calif. Quick-freeze device. 2,428,736; Oct. 7.
- Caspers Tin Plate Company, assignee: *See—*  
Domville, Charles H., Jr., and Gray.
- Cass, Oliver W.: *See—*  
Levine, Arthur A., and Cass.
- Cass, Oliver W., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of 2-chlorobutadiene-1,3. 2,415,295; Feb. 4.
- Cass, Oliver W., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chlorine derivatives of trimethyl acetonitrile. 2,425,029; Aug. 5.
- Cass, Oliver W., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Bis (carboxy methyl propyl) sulfide. 2,429,391; Oct. 21.
- Cass, Oliver W., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Bis (amino methyl propyl) sulfide. 2,429,392; Oct. 21.
- Cass, Oliver W., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Bis (cyano methyl propyl) sulfide. 2,429,452; Oct. 21.
- Cass, Oliver W., and H. B. Copelin, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Tetrachlor succinonitrile and producing it. 2,422,528; June 17.
- Cass, Oliver W., and H. B. Copelin, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Chlorination process. 2,430,667; Nov. 11.



- Cass, Vernon C., Chicago, Ill. Vehicle wheel mounting means. 2,428,109; Sept. 30.
- Cass, Vernon C., Chicago, Ill. Vehicle wheel mounting means. 2,430,158; Nov. 4.
- Cassell, Robert P., assignor to The Jeannette Glass Company, Jeannette, Pa. Molding glass articles. 2,419,763; Apr. 29.
- Cassell, Robert P., assignor to The Jeannette Glass Company, Jeannette, Pa. Molding glass articles. 2,419,764; Apr. 29.
- Casella, Secondo L., assignor to Morey Machinery Co., Inc., New York, N. Y. Turret tool block. 2,433,026; Dec. 23.
- Casella, Secondo L., assignor to Morey Machinery Co., Inc., New York, N. Y. Lathe. 2,433,027; Dec. 23.
- Cassen, Benedict, Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Ultra high frequency oscillation generator. 2,428,554; Oct. 7.
- Cassen, Benedict, Los Angeles, Calif., and R. M. Baker, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Apparatus for high-frequency induction heating of strips. 2,419,116; Apr. 15.
- Cassin, Anthony F., assignor to Auto City Plating Co., Detroit, Mich. Apparatus for washing cylinders. 2,420,463; May 13.
- Casson, Nicholas V., New York, N. Y. Hearing aid equipment for confectionals. 2,424,348; July 22.
- Castaldi, Gaetano, Brooklyn, N. Y., assignor to United Shoe Machinery Corporation, Flemington, N. J. Buffing machine. 2,430,909; Nov. 18.
- Castedello, William: *See*—  
Schwartz, Morris, and Castedello.
- Castellana, Bartolo, assignee, et al.: *See*—  
La Cagnina, Orazio.
- Castellana, Paul, assignee, et al.: *See*—  
La Cagnina, Orazio.
- Castle, John B., Los Angeles, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Sheet metal structure. 2,423,682; July 8.
- Castner Patents, Inc., assignee: *See*—  
Roters, Herbert C.
- Caston, Milton K., Long Beach, Calif. Plotting device. 2,415,277; Feb. 4.
- Castrocone, John A., assignor to Altorfer Bros. Company, Peoria, Ill. Clothes washing machine. 2,416,611; Feb. 25.
- Caswell, Arthur S., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Circuit breaker contact. 2,426,387; Aug. 26.
- Catalano, William A., University Heights, assignor to Thompson Products, Inc., Cleveland, Ohio. Supplementary fuel. 2,429,707; Oct. 28.
- Cataldo, John B., Summit, N. J., and W. E. Stilwell, Jr., Cincinnati, Ohio, assignors to John B. Pierce Foundation, New York, N. Y. Electric overload protective device. 2,420,300; May 13.
- Catalin Corporation of America, assignee: *See*—  
Magrane, John K., Esterly, and Davies.
- Catellier, Armand, Montreal, Quebec, Canada. Fruit utensil. 2,427,123; Sept. 9.
- Caterpillar Tractor Co., assignee: *See*—  
Furstoss, Ralph J., Kranc, and McWherter.  
Heisel, Andrew G.  
Gedstad, Rudolph.
- Cathodeon Limited, assignee: *See*—  
Liebmann, Gerhard.
- Catlin, Dick E., Kutch, Colo. Vacuum car heater. 2,431,918; Dec. 2.
- Catlin, James H., Litchfield, Conn. Auxiliary hand grip for shovels. 2,430,802; Nov. 11.
- Cato, Artie Q., Houston, G. Wash, Galveston, and A. J. Schmid, Houston, Tex., assignors to Standard Oil Development Company. Heating oil. 2,417,236; Mar. 11.
- Caughey, John M., assignor to Stubnitz-Greene Spring Corporation, Adrian, Mich. Seat spring. 2,418,697; Apr. 8.
- Caughey, John M., assignor to Stubnitz-Greeve Spring Corporation, Adrian, Mich. Seat having a resiliently mounted back rest. 2,419,884; Apr. 29.
- Causey, George W., Pittsburgh, Pa. Scaffolding. 2,415,461; Feb. 11.
- Cauwenberg, Winfred J.: *See*—  
Tanner, Charles A., Jr., and Cauwenberg.
- Cauwenberg, Winfred J., Piney River, and L. Aagaard, Amherst, Va., assignors, by mesne assignments, to American Cyanamid Company. Preparing rutile seeding agents. 2,433,597; Dec. 30.
- Cavaliere, Silvestro, Chicago, Ill. House drain fitting. 2,427,258; Sept. 9.
- Cavanagh, Rex D., assignor of twenty-five per cent to R. N. Fagerburg, Bloomington, Ill. Duplex combination extension lathe. 2,416,612; Feb. 25.
- Cavedon, Alexander, Woonsocket, R. I. Method of and apparatus for producing nubbed yarns. 2,421,010; May 27.
- Cavicchi, Joseph V., East Boston, Mass. Precision height gage. 2,429,923; Oct. 28.
- Cawein, Madison, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Variable gain electron multiplier. 2,416,376; Feb. 25.
- Cawein, Madison, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Electron multiplier. 2,418,574; Apr. 8.
- Cawein, Madison, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Noise limiter and automatic volume control for television receivers. 2,424,349; July 22.
- Cawein, Madison, Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Video and synchronizing signal combining amplifier. 2,424,350; July 22.
- Cawley, John D., assignor to Distillation Products, Inc., Rochester, N. Y. Preparation of vitamin A ethers. 2,430,493; Nov. 11.
- Cayen, Charles R.: *See*—  
Hewitt, Frank C., and Cayen.
- Cecil, Lawrence K., R. J. Stengl, and F. B. Bedwell, assignors to Ozark Chemical Company, Tulsa, Okla. Apparatus and method for producing inert gas. 2,418,162; Apr. 1.
- Cedar, Julius, New York, N. Y. Bracelet chain. 2,429,393; Oct. 21.
- Cejka, Leo A.: *See*—  
Thompson, George L., and Cejke.
- Celanese Corporation of America: *See*—  
Jackson, Thomas, and Hill.
- Celanese Corporation of America, assignee: *See*—  
Bludworth, Joseph E., and Easter.  
Bludworth, Joseph E., and Hutson.  
Bludworth, Joseph E., and Robeson.  
Croft, Cyril M., and Hindle.  
Dodge, Frederick G.  
Elvin, William J., and Stahl.  
Geer, Norma B., and Schatz.  
Haney, Clifford L., and Martin.  
Haney, Clifford L., Martin, and Rosenthal.  
Haney, Clifford L., and Mitchell.  
Horback, William, and Paist.  
Keight, Albert W., and Carlson.  
Moncrieff, Robert W., Sammons, and Wheatley.  
Ott, Ralph V.  
Piperoux, P., and Soussloff.  
Piperoux, Rene P., and Soussloff.  
Prichard, John, and Flitter.  
Seymour, George W., and Martin.  
Seymour, George W., and Ward.  
Seymour, George W., Salvin, and Miville.  
Thomas, Allan C.  
Welch, William E. D.  
Whitehead, William.
- Cellomold Limited, assignee: *See*—  
Davies, Drury N., and Churchman.
- Celon Company, The, assignee: *See*—  
Trecek, Louis.
- Celotex Corporation, The, assignee: *See*—  
Frederick, Emile, Jr., and Waterfall.
- Central Foundry Company, The, assignee: *See*—  
Nolan, John J., Jr.
- Central Mine Equipment Co., assignee: *See*—  
Patterson, James M.
- Central National Bank of Cleveland, executor: *See*—  
Martin, Stoddard B.
- Century Lighting Inc., assignee: *See*—  
Levy, Joseph.
- Cepero, Alberto S., assignee, et al.: *See*—  
Solis, Fausto A.
- Cermak, William: *See*—  
Bretthauer, John H., and Cermak.
- Cernuda, Canuto I., Santurce, Puerto Rico. Safety delivery receptacle. 2,423,372; July 1.
- Certain-teed Products Corporation, assignee: *See*—  
Deuchler, Philip G.
- Cesery, Carl V., Jacksonville, Fla. Shingle and shingle covering. 2,427,522; Sept. 16.
- Chace, W. M., Company, assignee: *See*—  
Dougherty, Raymond L.
- Chadder, William J., Guildford, England, assignor, by mesne assignments, to Koppers Company, Inc., Pittsburgh, Pa. Purification of aromatic hydrocarbons by azeotropic distillation. 2,416,377; Feb. 25.
- Chadwick, George A., and P. W. Burk, Washington, D. C. Machine gun magazine and cradle therefor. 2,418,462; Apr. 8.
- Chadwick, Lee S., Shaker Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Liquid fuel feeding means. 2,416,514; Feb. 25.
- Chadwick, Lee S., Shaker Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Liquid fuel burning apparatus. 2,418,622; Apr. 8.
- Chadwick, Robert A., Jr., Milwaukee, Wis. Loading and unloading mechanism for motor vehicles. 2,433,598; Dec. 30.
- Chaffee, Earl W., New York, N. Y. Tracking control device. 2,426,597; Sept. 2.
- Chaffee, Earl W., New York, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Multistation height finder. 2,426,596; Sept. 2.
- Chaffee, Stewart W., assignee: *See*—  
Farnham, Evelyn C.
- Chagnon, Zephir J., Delmar, assignor to Albany Felt Company, Albany, N. Y. Tennis ball cover cloth. 2,423,827; July 15.
- Chagnon, Zephir J., Delmar, assignor to Albany Felt Company, Albany, N. Y. Papermaker's felt. 2,423,828; July 15.



- Chaiken, Hyman F., Wilkes Barre, assignor to Samuel H. French and Co., Philadelphia, Pa. Dental impression equalizers. 2,423,005; June 24.
- Chain Belt Company, assignee: *See*—  
 Albrecht, Walter M.  
 Fleischmann, George A.  
 Hilkemeier, Louis G.  
 Lind, Arthur C.  
 Longenecker, Charles I.  
 McCann, John F.  
 Porter, Don C.  
 Shafer, Samuel, Jr.  
 Smith, Horace L., Jr.
- Chalberg, Harry W. A.: *See*—  
 Strampel, Edward L., Beggs, and Chalberg.
- Chalfant, Charles A., and W. Langston, Pine Bluff, Ark. Aeroelectric valve. 2,419,117; Apr. 15.
- Challenger Corporation, assignee: *See*—  
 West, Maxwell A. and G. E.
- Chamberlain, Frederic W., and A. J. Klute, assignors to The Warren Featherbone Co., Three Oaks, Mich. Shaped featherbone material and making same. 2,424,740; July 29.
- Chamberlain, Joseph W., Holland, Mich. Means for and method of cooling by spraying a cooled liquid. Re. 22,917; Sept. 23.
- Chamberlain, W. W., & Sons, Limited, assignee: *See*—  
 Chamberlain, William H.
- Chamberlain, William H., assignor to W. W. Chamberlain & Sons, Limited, Higham Ferrers, England. Counter molding machine. 2,433,318; Dec. 23.
- Chamberlin Company of America, assignee: *See*—  
 Smith, Frank R. E.  
 Willett, Leon E., and Seide.
- Chamberlin, John W., assignor to American Machine and Metals, Inc., East Moline, Ill. Washing machine and automatic control mechanism therefor. 2,430,668; Nov. 11.
- Chambers, Allan C., and F. B. Willis, assignors to Bendix Aviation Corporation, South Bend, Ind. Brake system. 2,423,006; June 24.
- Chambers, Cyril H., assignor to Standard Telephones and Cables Limited, London, England. Intelligence reproducing system. 2,426,178; Aug. 26.
- Chambers, Edward J., assignor of forty-nine per cent to J. B. Whigam, Chicago, Ill. Auto jack. 2,424,741; July 29.
- Chambers, Lawrence S., Alhambra, Calif. Apparatus for sampling formation fluids. 2,418,500; Apr. 8.
- Chambers, Thomas S., Newark, N. J., assignor to Standard Oil Development Company. Stabilization of vinyl aromatic compounds with gaseous diolefins or acetylenes. 2,420,862; May 20.
- Chambers, Thomas S., Newark, and O. C. Slotterbeck, Rahway, N. J., assignors to Standard Oil Development Company. Electrolytic production of pinacols. 2,422,468; June 17.
- Chambers, William A., Ewell, assignor to Ronald Trist & Co. Limited, Slough, England. Magnetic device. 2,414,688; Jan. 21.
- Champer, Leon E., Burbank, Calif., assignor, by mesne assignments, to F. H. Rolapp. Method and apparatus for forming sheet metal. 2,415,788; Feb. 11.
- Champer, Leon E., Burbank, Calif., assignor, by mesne assignments, to F. H. Rolapp. Casting hot plastics. 2,428,697; Oct. 7.
- Champion Machine & Forging Company, The, assignee: *See*—  
 Terhune, Howard.
- Champion Paper and Fibre Company, The, assignee: *See*—  
 Steffen, Raymond A.  
 Stoddard, William B., Jr.
- Champion Spark Plug Company, assignee: *See*—  
 Kelly, John P.
- Champlain Company, Inc., assignee: *See*—  
 Piazze, Thomas E.
- Chance Brothers Limited, assignee: *See*—  
 Bastick, Raymond E., and Hampton.
- Chance, Charles E., Washington, D. C. Railway rail leveling and anchoring device. 2,421,992; June 10.
- Chance, Franklin S.: *See*—  
 McAlevy, Ambrose, Strain, and Chance.
- Chandler, Austin S.: *See*—  
 Lakso, Eino E., and Chandler.
- Chandler, Edward F., Brooklyn, N. Y. Intermittent transmission. 2,416,739; Mar. 4.
- Chandler, Edward F., Brooklyn, N. Y. Cooling system for internal combustion engines. 2,417,237; Mar. 11.
- Chandler, Edward F., Brooklyn, N. Y. Process and apparatus for the catalytic cracking of a hydrocarbon oil. 2,423,637; July 8.
- Chandler, Edward M., Alcoa, Tenn., T. W. Bossert, Carnegie, Pa., and K. B. Baker, West Englewood, N. J., assignors to Aluminum Company of America, Pittsburgh, Pa. Heat treatment of aluminum strip. 2,416,378; Feb. 25.
- Chandler, James D., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe and method of making the same. 2,425,420; Aug. 12.
- Chandler, Milton E., New Britain, Conn. Automatic heat regulator. 2,419,820; Apr. 29.
- Chandler, Milton E., New Britain, Conn. Boiler water feeder. 2,419,821; Apr. 29.
- Chandler, Milton E., New Britain, assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn. Charge forming device. 2,416,906; Mar. 4.
- Chandler, Milton E., New Britain, assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn. Carburetor. 2,416,907; Mar. 4.
- Chandler, Milton E., New Britain, assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn. Fuel injector pump mechanism. 2,423,373; July 1.
- Chandler, Milton E., New Britain, assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn. Control for internal-combustion engines. 2,432,283; Dec. 9.
- Chandler & Price Company, The, assignee: *See*—  
 Root, Charles F.
- Chaney, Newcomb K., Moylan, Pa., assignor to The United Gas Improvement Company. Producing aromatics and diolefins from petroleum. 2,423,374; July 1.
- Chaney, Newcomb K., Moylan, Pa., and E. L. Hall, Manchester, N. H., assignors to The United Gas Improvement Company. Production of dienes, resin-forming aromatic hydrocarbons and nonresin-forming aromatic hydrocarbons. 2,423,375; July 1.
- Chanin, Milton, Bronx, assignor to Scientific Nutrition Corporation, New York, N. Y. Composition of matter. 2,426,762; Sept. 2.
- Chapin, Daryl M., Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Depth control device. 2,414,449; Jan. 21.
- Chapin, Reynold S., Flushing, assignor to Press Wireless, Inc., New York, N. Y. Tuning indicator for frequency shift carrier telegraph systems. 2,417,543; Mar. 18.
- Chapin, Reynold S., Flushing, assignor to Press Wireless, Inc., New York, N. Y. Carrier-shift signal control circuits. 2,421,054; May 27.
- Chapin, Reynold S., Flushing, assignor to Press Wireless, Inc., New York, N. Y. Frequency shift telegraph receiver tuning indicator. 2,423,225; July 1.
- Chaplin, Edwin D., assignor to H. B. Albert, New York, N. Y. Dry cell. 2,424,149; July 15.
- Chaplin, Merle P., South Portland, Maine. Molded fibre article. 2,423,756; July 8.
- Chapman, Arthur B., Newark, N. J., and A. C. Hutton, Washington, D. C., assignors to Electro-Protective Corporation, Newark, N. J. Thermal fire protective system. 2,427,088; Sept. 9.
- Chapman, Cecile, Brooklyn, N. Y. Sanitary pad for beds and cribs. 2,414,927; Jan. 28.
- Chapman, Everett, West Chester, Pa., assignor to American Locomotive Company, New York, N. Y. Welded engine frame construction. 2,416,045; Feb. 18.
- Chapman, James, Halewood near Liverpool, and J. W. C. Crawford, Frodsham via Warrington, England, assignors to Imperial Chemical Industries Limited. Photochemical chlorination of polyvinyl chloride. 2,426,080; Aug. 19.
- Chapman, James F.: *See*—  
 Lensner, Herbert W., and Chapman.
- Chapman, James F., Upper Darby, Pa., assignor to A C F-Brill Motors Company, New York, N. Y. Clutch and throttle control. 2,414,717; Jan. 21.
- Chapman, John H., Central, S. C. Thin place detector for looms. 2,429,804; Oct. 28.
- Chapman, Paul E.: *See*—  
 Pollak, Chapman, and Hastings.
- Chapman, William B., Colorado Springs, Colo. Chasing mill with stationary table and radially arranged roller. 2,426,434; Aug. 26.
- Chappell, Arthur J.: *See*—  
 Colt, George H., and Chappell.
- Chappell, Logan S., U. S. Navy. Apparatus for measuring depth of water. 2,414,091; Jan. 14.
- Charbonneau, Allan P., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Circuit controlling device. 2,428,832; Oct. 14.
- Charch, William H., Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Obtaining N-alkoxy-methyl polyamides. 2,430,910; Nov. 18.
- Charch, William H., and W. F. Underwood, Buffalo, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing regenerated cellulose textile material. 2,414,800; Jan. 28.
- Charch, William H., Buffalo, N. Y., and F. B. Cramer, Waynesboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Alkoxyethyl derivatives of cellulose and process. 2,430,911; Nov. 18.
- Charles, Artis E., Guntersville, Ala., assignor to Carolyn Chenilles, Inc., New York, N. Y. Tufting machine. 2,432,469; Dec. 9.
- Charles, Glen W., assignor to A. P. Green Fire Brick Company, Mexico, Mo. Dry press insulating fire brick. 2,420,863; May 20.
- Charles, Glen W., assignor to A. P. Green Fire Brick Company, Mexico, Mo. Dry press insulating firebrick. 2,433,429; Dec. 30.
- Charles, Glen W., assignor to A. P. Green Fire Brick Company, Mexico, Mo. Dry press insulating firebrick. 2,433,430; Dec. 30.



- Charles, Hubert N., and C. F. Nossiter, assignors to The Austin Motor Company, Limited, Birmingham, England. Spur gear drive transmission. 2,415,278; Feb. 4.
- Charlton, Charles F., and M. A. Palmer, Jr., Manchester, Conn. Cooling system for machine tools. 2,426,817; Sept. 2.
- Charlton, Frank S.: *See*—  
Wean, Robert E., and Charlton.
- Charney, Aaron, Chicago, Ill. Glove. 2,425,784; Aug. 19.
- Charroin, Arthur B., assignee: *See*—  
Charroin, Frank B.
- Charroin, Frank B., Bellingham, Wash., assignor to A. B. Charroin, San Diego, Calif. Chimney cap. 2,425,458; Aug. 12.
- Chartier, Richard, Lac Masson, Quebec, Canada. Tire chain assembly. 2,433,545; Dec. 30.
- Chartrand, Browning O., San Jose, Calif. Dental impression tray. 2,426,388; Aug. 26.
- Charwinsky, John, New York, N. Y. Hoisting indicator. 2,414,092; Jan. 14.
- Chase Brass & Copper Co., Incorporated, assignee: *See*—  
Dempsey, Michael J., and Reher.  
Vanderwell, Raimund G.
- Chase, Sherman, Evergreen Park, Ill., assignor to Carnegie-Illinois Steel Corporation. Combustion control. 2,418,163; Apr. 1.
- Chasin, Samuel L., assignee: *See*—  
Danziger, Abraham.
- Chaskin, Harold, New York, N. Y. Typewriter word counter. 2,421,681; June 3.
- Chaskin, Harold, New York, N. Y. Typewriter word counter. 2,421,682; June 3.
- Chaskin, Harold, New York, N. Y. Typewriter word counter. 2,421,683; June 3.
- Chatelain, Oscar, Le Locle, Switzerland. Single-phase synchronous motor of small size. 2,424,020; July 15.
- Chatterjea, Prafulla K., and C. T. Scully, W. C. 2, assignors to Standard Telephones and Cables Limited, London, England. Time-modulated pulse communication system. 2,419,535; Apr. 29.
- Chatterjea, Prafulla K., and D. M. Ambrose, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Electrical relaxation oscillators. 2,426,179; Aug. 26.
- Chatterjea, Prafulla K., and L. W. Houghton, London, W. C. 2, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Single carrier telephone and telegraph pulse multiplex system. 2,428,010; Sept. 30.
- Chatterjea, Prafulla K., and C. T. Scully, assignors to Standard Telephones and Cables Limited, London, England. Receiver for time or duration modulated electrical pulses. 2,428,011; Sept. 30.
- Chatterjea, Prafulla K., and L. W. Houghton, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Multichannel pulse communication system. 2,429,608; Oct. 28.
- Chatterjea, Prafulla K., and C. T. Scully, assignors to Standard Telephones and Cables Limited, London, England. Pulse modulated transmission system. 2,429,609; Oct. 28.
- Chatterjea, Prafulla K., and L. W. Houghton, assignors to Standard Telephones and Cables Limited, London, England. Radio locating arrangements. 2,431,305; Nov. 25.
- Chatterjea, Prafulla K., and C. T. Scully, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Thermionic amplifier. 2,431,306; Nov. 25.
- Chatterjea, Prafulla K., and C. T. Scully, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Thermionic valve amplifier. 2,431,307; Nov. 25.
- Chatterjea, Prafulla K., and D. M. Ambrose, assignors to Standard Telephones and Cables Limited, London, England. Cathode-ray tube sweep circuit. 2,433,342; Dec. 30.
- Chatterjea, Prafulla K., and L. W. Houghton, London, W. C. 2, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Multichannel electrical communication system. 2,433,343; Dec. 30.
- Chausse, Burnette P.: *See*—  
Schmitz, Anton W., and Chausse.
- Chavayda, Joseph J., assignor to The Parker Appliance Company, Cleveland, Ohio. Flexible coupling for tubes. 2,428,143; Sept. 30.
- Chechak, Jonas J., assignor to Eastman Kodak Company, Rochester, N. Y. Stable diazo material. 2,418,623; Apr. 8.
- Chechak, Jonas J., and B. H. Carroll, assignors to Eastman Kodak Company, Rochester, N. Y. Azo dyes for color photography. 2,418,624; Apr. 8.
- Chechot, Vladimir L., assignor to The Atlantic Refining Company, Philadelphia, Pa. Refining hydrocarbon oil with a sludge-forming reagent. 2,427,589; Sept. 16.
- Checkos, Theodore K., Los Angeles, Calif. Welding rod holder. 2,433,431; Dec. 30.
- Cheek, Millard F., Liberty, Mo. Wheelborrow. 2,426,081; Aug. 19.
- Chefford Master Manufacturing Co., Inc., assignee: *See*—  
Katcher, Morris.
- Chelew, William A.: *See*—  
Carr, Donald J., and Chelew.
- Chemical Construction Corporation, assignee: *See*—  
McKee, James E.  
Titlestad, Nicolay.
- Chemical Developments Corporation, assignee: *See*—  
Drummond, Folsom E.  
Luaces, Enrique L.  
Toulmin, Harry A., Jr.  
Waldie, William A.
- Chemical Foundation, Incorporated, The, assignee, trustee: *See*—  
Hixson, Arthur W., and Miller.
- Chemical Laboratories, Inc., assignee: *See*—  
Whitner, Thomas C.
- Chemprotin Products, assignee et al.: *See*—  
Obey, James H.
- Chenette, Joseph C., Flat Rock, Mich. Bottle holder. 2,433,091; Dec. 23.
- Cheney, Franklin V., New York, assignor of thirty per cent to C. Gross, Sputen Dyvul, and J. J. McKelvey, New York, N. Y., as trustees. Washing machine having independently actuated vertically reciprocating and oscillating agitators. 2,429,610; Oct. 28.
- Cheney, Franklin V., assignor of thirty per cent to C. Gross, Sputen Dyvul, and J. J. McKelvey, New York, N. Y., as trustees, and seventy per cent to The Cheney Associates. Clothes-washing machine. 2,430,211; Nov. 4.
- Cheney, Harry A., Oakland, and S. H. McAllister, Lafayette, assignors to Shell Development Company, San Francisco, Calif. Production of dichloropropylenes. 2,430,326; Nov. 4.
- Chenicek, Joseph R., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Suppression of metal catalysts. 2,420,122; May 6.
- Chenier, Jules K., Western Springs, Ill. Electrical socket contact. 2,430,159; Nov. 4.
- Chernack, Abel E., Elmwood, Conn. Collapsible tubing. 2,417,676; Mar. 18.
- Chernow, Michael, New York, N. Y. Jewelry chain. 2,424,924; July 29.
- Chernow, Michael, New York, N. Y. Jewelry clip. 2,433,737; Dec. 30.
- Cherry-Burrell Corporation, assignee: *See*—  
Boileau, Arthur H.  
Dalzell, Charles B.  
Dalzell, Charles B., and Wyman.  
Trier, Carl L., and Livingston.  
Wildermuth, James A.
- Cherry-Burrell Corporation, assignee, et al.: *See*—  
Horneman, Herman C., Hussong, Quam, and Hammer.
- Cherry, Carl W., Carmel, assignor to R. L. Phelps, San Francisco, Calif. Hand pump atomizer. 2,429,708; Oct. 28.
- Cherry, George L., Western Springs, and C. C. Veale, Wheaton, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Ceramic molding press. 2,415,462; Feb. 11.
- Cherry, George L., Western Springs, and C. C. Veale, Wheaton, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Unloading apparatus. 2,425,362; Aug. 12.
- Cherry, Henry E., Morden, England. Toasting machine. 2,414,139; Jan. 14.
- Cherry Rivet Company, assignee: *See*—  
Ketchum, Milo C.
- Cherry, Sidney J., East Orange, and L. C. Werner, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric arc brazing. 2,431,368; Nov. 25.
- Chertok, Oscar, Brooklyn, N. Y. Open toe shoe cap construction. 2,419,390; Apr. 22.
- Chervenka, George R., assignor to Fred Medart Manufacturing Company, St. Louis, Mo. Electric recording of basketball goals. 2,413,952; Jan. 7.
- Chervenka, George R., assignor to Fred Medart Manufacturing Company, St. Louis, Mo. Latching mechanism. 2,428,929; Oct. 14.
- Chesapeake and Ohio Railway Company, The, assignee: *See*—  
Newton, Carl E.
- Chesler, Abraham E., assignor to M. A. Chesler, Woodmere, N. Y. Garment hanger. 2,427,385; Sept. 16.
- Chesler, Isidor, Oceanport, N. J., assignor to Eagle Pencil Company, New York, N. Y. Writing instrument. 2,432,061; Dec. 2.
- Chesler, Marion A., assignee: *See*—  
Chesler, Abraham E.
- Chesnut, Roy W.: *See*—  
Carlson, Carl P., Chesnut, and Knowlton.
- Chesny, Heinz H.: *See*—  
Elkington, Frank, and Chesny.
- Chesny, Heinz H., Worksoop, England. Apparatus for removing soluble impurities from solid substances. 2,426,296; Aug. 26.
- Chester, Allan E., Highland Park, and F. F. Reisinger, Waukegan, assignors to Poor & Company, Chicago, Ill. Chromium aldonate compositions and the preparation thereof. 2,428,356; Oct. 7.



- Chester, Frank R., Manhattan Beach, Calif. Razor blade sharpener. 2,415,463; Feb. 11.
- Chester, Frank R., Manhattan Beach, Calif. Razor blade sharpener. 2,429,307; Oct. 21.
- Chester, Thomas, Detroit, Mich. Impeller for centrifugal apparatus. 2,418,012; Mar. 25.
- Chester, William F., Bayside, assignor to The Pavements Reclaiming Corporation, Jamaica, N. Y. Apparatus for conditioning pavement material. 2,413,908; Jan. 7.
- Chevigny, Paul G., New York, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Gaseous spark tube. 2,414,450; Jan. 21.
- Chevigny, Paul G., New York, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Magnetron vacuum tube. 2,419,536; Apr. 29.
- Chevigny, Paul G., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Metal-cutting system. 2,421,011; May 27.
- Chevigny, Paul G., New York, N. Y., assignor, by mesne assignments, to the United States of America, as represented by the Secretary of War. Vacuum tube with coupling-feed-back-electrode arrangement. 2,423,819; July 8.
- Chew, Frank D., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Apparatus for recovering scrap metal. 2,426,389; Aug. 26.
- Chew, Thornton W., U. S. Navy. Homing system. 2,421,012; May 27.
- Chianese, Joseph, assignor to S. Froehlich Co., Inc., New York, N. Y. Belt. 2,426,435; Aug. 26.
- Chicago Aerial Survey Company, assignee: *See—*  
Sonne, Frederick T.
- Chicago Bridge & Iron Company, assignee: *See—*  
Boardman, Harry C.
- Horton, George T.
- Chicago Coin Machine Co., assignee: *See—*  
Eilenberger, Stanley D.
- Koci, Jerry C., and Schlappa.
- Chicago Eye Shield Company, assignee: *See—*  
Malcom, Robert L., and Whipple.
- Chicago Forging and Manufacturing Company, not Inc., assignee: *See—*  
Howe, Earl E.
- Chicago Metal Hose Corporation, assignee: *See—*  
Fentress, David W.
- Chicago Mill and Lumber Company, assignee: *See—*  
Ware, Richard N., Jr., and Cannon.
- Chicago Pneumatic Tool Company, assignee: *See—*  
Amsberg, Lester A.
- Maurer, Spencer B.
- O'Farrell, Matthew.
- O'Farrell, Matthew, and St. Louis.
- Roberts, James A.
- Styes, Fred J.
- Chicago Railway Equipment Company, assignee: *See—*  
Busse, Edwin G.
- Chicago Rawhide Manufacturing Company, assignee: *See—*  
Hansen, Hans L. C.
- Chicago Roller Skate Company, assignee: *See—*  
Ware, Robert R., Jr.
- Chicago Vitreous Enamel Product Company, assignee: *See—*  
Standlund, Carl G.
- Chicopee Manufacturing Corporation, assignee: *See—*  
Vose, Robert W., and Plummer.
- Chiego, Bernard: *See—*  
Plews, William J., and Chiego.
- Chilcoat, Arthur L., Timperely, S. Jackson, Chadderton, and F. W. Taylor, Oldham, England. Mounting of electrodes in electric discharge tubes. 2,417,061; Mar. 11.
- Chilcote, Ray A.: *See—*  
Roessler, Gordon W., and Chilcote.
- Chilcott, William J., Wichita, Kans. Fuel pump adjustor. 2,420,225; May 6.
- Chiles, William B., Lubbock, Tex. Water pump refacing tool. 2,431,369; Nov. 25.
- Chillson, Charles W., Lake Packanack, and G. W. Brady, Upper Montclair, N. J., assignors to Curtiss-Wright Corporation. Propeller synchronizing apparatus. 2,433,432; Dec. 30.
- Chilowsky, Constantin, New York, N. Y. Method and apparatus for making artificial piezoelectric elements. 2,420,652; May 20.
- Chilowsky, Constantin, New York, N. Y. Piezoelectric plastic material and making same. 2,420,864; May 20.
- Chilowsky, Constantin, New York, N. Y. Submarine detecting buoy. 2,422,337; June 17.
- Chilton, Alfred H., assignor to J. Stone & Company Limited, Deptford, England. Electrically propelled torpedo. 2,414,928; Jan. 28.
- Chilton, Leonard V., J. D. Kendall, and H. Phillips, assignors to Iford Limited, Iford, England. Treatment of developed silver images with mercapto-tetrazole and triazole compounds. 2,432,506; Dec. 16.
- Chilton, Roland, Ridgewood, N. J., assignor to Wright Aeronautical Corporation. Transmission. 2,416,154; Feb. 18.
- Chilton, Roland, Ridgewood, N. J., assignor to Wright Aeronautical Corporation. Fluid coupling automatic control valve. 2,432,191; Dec. 9.
- Chilton, Thomas H., and C. E. Lapple, Wilmington, Del., assignors to the United States Government, as represented by the Secretary of the Navy. Dust separator, especially for carburetor air intake ducts. 2,425,508; Aug. 12.
- Chilton, William D., Memphis, Tenn., assignor to General Motors Corporation, Detroit, Mich. Press feed. 2,425,994; Aug. 19.
- "Chimiotechnie" Union Chimique du Nord et du Rhône, Société Anonyme, assignee: *See—*  
Collonges, Roger S. A., and Vallée.
- Chiodo, Ned, Des Moines, Iowa. Shoe heel insert and heel. 2,420,770; May 20.
- Chipman, Charles, assignor to Haytock Silk Throwing Company, Easton, Pa. Creel. 2,432,284; Dec. 9.
- Chirside, Ralph C., and L. A. Dauncey, Wembley, assignors to The General Electric Company Limited, London, England. Powdered alumina. 2,431,370; Nov. 25.
- Chisholm-Ryder Company, Incorporated, assignee: *See—*  
De Back, William.
- Hesson, Charles M.
- Chittum, Melvin G., Brooklyn, N. Y. Indicator fuse plug. 2,422,886; June 24.
- Chochol, Joseph, Brooklyn, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Fluid operated safety control for power presses and the like. 2,423,482; July 8.
- Chodor, Abraham, assignor of one-half to N. Fein, Reading, Pa. Shoe heel and making same. 2,421,923; June 10.
- Chollar, Robert G., assignor to The National Cash Register Company, Dayton, Ohio. Making printing members. 2,413,747; Jan. 7.
- Chollar, Robert G., assignor to The National Cash Register Company, Dayton, Ohio. Polychrome printing plate. 2,427,765; Sept. 23.
- Chollar, Robert G., and G. J. Wilson, assignors to The National Cash Register Company, Dayton, Ohio. Making porous rubber polychrome printing plates. 2,427,836; Sept. 23.
- Chorley, Richard T., Miami, Fla. Expanding anchor for pole guys. 2,431,464; Nov. 25.
- Chouinard, Alfred E.: *See—*  
Mott, Chester, Chouinard, and Dove.
- Christ, Robert E., Elizabeth, and B. M. Marks, Newark, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerization of alpha-methylene monocarboxylic acid esters. 2,417,258; Mar. 11.
- Christaldi, Peter S., Upper Montclair, and J. R. Banker, assignors to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Sweep synchronizing and beam blanking device. 2,419,118; Apr. 15.
- Christen, Charles, Hastings on Hudson, N. Y., assignor to Keuffel & Esser Company, Hoboken, N. J. Calculator. 2,415,415; Feb. 11.
- Christensen, Alfred C., Chicago, assignor to H. S. Simpson, Evanston, Ill. Reclaiming spent material. 2,429,667; Oct. 28.
- Christensen, Alfred C., Chicago, assignor to H. S. Simpson, Evanston, Ill. Apparatus for reclaiming spent foundry sand. 2,433,738; Dec. 30.
- Christensen, Alfred C., and J. J. Dvorak, Chicago, assignors to H. S. Simpson, Evanston, Ill. Foundry sand reclaiming system and method. 2,420,392; May 13.
- Christensen, Andrew B., Snyder, N. Y., assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Electrical control system. 2,423,683; July 8.
- Christensen, Arthur R., Lockport, N. Y. Brush attachment for liquid applicators. 2,422,823; June 24.
- Christensen, Carl J., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Resistor. 2,419,537; Apr. 29.
- Christensen, Edwin S., Long Beach, Calif. Pipe end forming machine. 2,422,338; June 17.
- Christensen, Howard: *See—*  
Becker, Joseph A., and Christensen.
- Becker, Joseph A., Christensen, and Kleimack.
- Christensen Machine Company, The, assignee: *See—*  
Belluche, Elmer W. and F. R.
- Christensen, Niels A., South Euclid, Ohio. Fluid control system. 2,414,451; Jan. 21.
- Christensen, Niels C., Salt Lake City, Utah. Gas washer. 2,414,718; Jan. 21.
- Christensen, Niels C., assignor to Combined Metals Reduction Company, Salt Lake City, Utah. Treatment of marmatitic zinc ores with HCl. 2,424,351; July 22.
- Christensen, Niels C., assignor to Combined Metals Reduction Company, Salt Lake City, Utah. Treating oxidized ores of zinc. 2,425,995; Aug. 19.
- Christensen, Norman V., assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. 2,424,798; July 29.
- Christensen, Norman V., assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. 2,432,285; Dec. 9.
- Christensen, Paul B., Fair Lawn, N. J., assignor, by mesne assignments, to Westinghouse Electric Corporation. Apparatus for treating and storing meat. 2,419,119; Apr. 15.
- Christensen, Paul L.: *See—*  
Panter, Carl, Borden, Christensen, and Holler.
- Christensen, Paul M., West Hartford, Conn., assignor, by mesne assignments, to Federal Electric Products Company, Inc., Newark, N. J. Fuse terminal clip. 2,419,007; Apr. 15.



- Christensen, Paul M., West Hartford, Conn., assignor, by mesne assignments, to Federal Electric Products Company, Inc., Newark, N. J. Hinge construction. 2,431,607; Nov. 25.
- Christian, Carl G., La Salle, Colo. Grass tamping attachment for lawn mowers. 2,430,912; Nov. 18.
- Christian, Charles L., Burlingame, Calif. Portable signaling device. 2,415,991; Feb. 18.
- Christian, David A., Batley, assignor to Siemens Brothers & Co. Limited, London, England. Automatic selecting switch. 2,416,086; Feb. 18.
- Christian, Frank T.: *See*—  
Hood, Edwin E., Christian, and Buxton.
- Christian, John E.: *See*—  
Jenkins, Glenn L., and Christian.
- Christiansen, Andrew L., Willowbrook, Calif. Fish machine. 2,431,465; Nov. 25.
- Christiansen, Christian, St. Cloud, Minn. Beet harvester. 2,418,575; Apr. 8.
- Christiansen, Frederick A., Beverly Hills, assignor of fifty per cent to L. Rhodes, Los Angeles, and fifty per cent to W. H. Hammer, Beverly Hills, Calif. Toy aircraft. 2,426,259; Aug. 26.
- Christiansen, Walter G., Essex County, N. J. Air valve. 2,414,189; Jan. 14.
- Christiansen, Walter G., Glen Ridge, and S. E. Harris, Nutley, N. J., assignors to E. R. Squibb & Sons, New York, N. Y. Amino-alcohol esters of aralkyl-oxy-benzoic acids. 2,415,235; Feb. 4.
- Christiansen, Walter G., Glen Ridge, and S. E. Harris, Nutley, N. J., assignors to E. R. Squibb & Sons, New York, N. Y. Alkoxy benzoates of N(hydroxy ethyl) and N(hydroxy phenethyl) substituted amino alcohols. 2,418,501; Apr. 8.
- Christiansen, William J., Teaneck, assignor to Bendix Aviation Corporation, Teterboro, N. J. Solenoid. 2,419,333; Apr. 22.
- Christie, Soren L., Los Angeles, Calif. Tap-changing switch. 2,422,339; June 17.
- Christmann, Friedrich: *See*—  
Pier, Mathias, and Christmann.
- Christopher, Robert C., Chicago, Ill. Auto jack. 2,429,014; Oct. 14.
- Christy, William C., Danville, Ill. Educational device. 2,413,756; Apr. 8.
- Chromium Corporation of America, assignee: *See*—  
Sternfels, Martin M.
- Chromium Mining & Smelting Corporation, assignee: *See*—  
Fraser, Alan R.
- Chrysler Corporation, assignee: *See*—  
Auten, Jay C.  
Ball, Thomas M.  
Ball, Thomas M., and Zierer.  
Foresman, Seth T.  
Glassford, Fred.  
Heftler, Maurice B.  
Huebner, George J., Jr.  
Kimberly, Albert E., Jr.  
Lamb, Ernest P.  
Lemon, Joseph R.  
Matheny, Harry R., and Keefer.  
Matulatis, Victor E.  
Mochel, Paul J.  
Neracher, Carl A., and Dunn.  
Saunders, Seymour G., and Morrison.  
Slack, Frederic W., and Utz.  
Sperry, Lyman B.  
Webb, Edmond F.  
Whalen, Lester J.  
Woolson, Harry T., and Carpentier.
- Chubb, Lewis W., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Position locator. 2,416,155; Feb. 18.
- Chubb, Lewis W., Jr., Sharon, assignor to Polaroid Corporation, Cambridge, Mass. Jig for predeterminedly marking polarizing screens with respect to their transmission axes. 2,427,259; Sept. 9.
- Chubb, William F., London, England. Apparatus for the condensation of metallic vapors. 2,430,389; Nov. 4.
- Church, Howard, Los Gatos, assignor to The Permanente Metals Corporation, Oakland, Calif. Chilling cone. 2,433,434; Dec. 30.
- Church, J. Frank: *See*—  
Ferro, Bernardo J., Jr., and Church.
- Church, John W., Mount Lebanon, assignor to Falk & Company, Carnegie, Pa. Method of sulphuration. 2,425,597; Aug. 12.
- Church, Joseph H.: *See*—  
Gray, John C., Thibodeau, Church, and Kessenich.
- Church, Joseph H., Austin, Minn., and G. J. Kessenich, Madison, Wis. Explosive projectile. 2,424,970; Aug. 5.
- Church, Walter L., Houston, Tex. Safety joint. 2,422,223; June 17.
- Churchill, Charles H., Cortland, N. Y. Toilet soap novelty. 2,420,734; May 20.
- Churchill, Ivan F., Fayetteville, N. Y. Control mechanism for drilling machines. 2,418,220; Apr. 1.
- Churchill, John A., Luton, and J. F. Belajeff and C. T. Delaney, Cricklewood, London, England. Heat exchange apparatus. 2,423,175; July 1.
- Churchill, Wilmer H., Saugus, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Rotary operative fastener stud. 2,422,289; June 17.
- Churchman, Frederick H.: *See*—  
Davies, Drury N., and Churchman.
- Churchward & Company, Incorporated, assignee: *See*—  
Hall, Marcus A.
- Churnell, Frank J., Bloomfield, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Cable stripping device. 2,429,611; Oct. 28.
- Clambrone, Frederick F., Jr.: *See*—  
Green, Harry J., Jr., and Clambrone.
- Clanchi, Alfredo, Hemel Hempsted, England. Electric circuit interrupter of the plug-in type. 2,416,569; Feb. 25.
- Clani, Americo, Mexico City, Mexico. Right and left hand lock with extendible keyway. 2,430,913; Nov. 18.
- Clani, Americo, Mexico City, Mexico. Key with guides and movable steps for insertion at back. 2,430,914; Nov. 18.
- Clapetta, Frank G., Yeadon, assignor to The Atlantic Refining Company, Philadelphia, Pa. Preparation of a sulfuric acid silica gel catalyst. 2,430,803; Nov. 11.
- Ciba Pharmaceutical Products, Inc., assignee: *See*—  
Hartmann, Max, and von Meyenburg.  
Ruzicka, Leopold.
- Ciba Pharmaceutical Products, Incorporated, assignee: *See*—  
Djerassi, Carl, and Scholz.  
Hartmann, Max, von Meyenburg, and Druey.  
Hofmann, Klaus.  
Miescher, Karl, and Heer.  
Ruzicka, Leopold, and Plattner.
- Ciba Products Corporation, assignee: *See*—  
Jacoby, Raymond W.
- Cicalese, Michael J.: *See*—  
Jenny, Frank J., Perkins, and Cicalese.
- Ciell, August C., Philadelphia, Pa. Making abrasive wheels. 2,423,293; July 1.
- Cieminski, Leo J., Chicago, Ill. Blowtorch with vertical retort. 2,431,109; Nov. 18.
- Cinch Manufacturing Corporation, assignee: *See*—  
Del Camp, Scipione M.  
MacFadden, Wilford C.
- Cincinnati Industries, Inc., assignee: *See*—  
Rowe, William V.
- Cincinnati Manufacturing Company, The, assignee: *See*—  
Milnor, Leland T.
- Cincinnati Milling Machine Co., The, assignee: *See*—  
Braaten, Oscar M.  
Holer, Walter.  
Kronenberg, Max, and Ernst.  
Nenninger, Lester F., and Hassman.  
Shaw, Milton C.  
Trible, Winthrop.  
Vancil, Edgar D., and Hassman.
- Cincinnati Planer Company, The, assignee: *See*—  
Daugherty, Jesse.
- Cintron, Ezequiel B., New York, N. Y. Roulette wheel. 2,429,344; Oct. 21.
- Circo Products Company, assignee: *See*—  
Skelly, James J.
- Cisas, Michael, assignee: *See*—  
Wild, Glenn D.
- Cislak, Francis E., and T. P. Carney, assignors to Reilly Tar & Chemical Corporation, Indianapolis, Ind. Separating tar acids from tar. 2,417,291; Mar. 11.
- Cislak, Francis E., and W. R. Wheeler, assignors to Reilly Tar & Chemical Corporation, Indianapolis, Ind. Purification of 3-picoline. 2,430,804; Nov. 11.
- Cislak, Francis E., and M. M. Otto, assignors to Reilly Tar & Chemical Corporation, Indianapolis, Ind. Separation of metacresol from paracresol. 2,432,062; Dec. 2.
- Cislak, Francis E., and M. M. Otto, assignors to Reilly Tar & Chemical Corporation, Indianapolis, Ind. Separating paracresol and pyridine base compounds thereof from mixtures with metacresol. 2,432,063; Dec. 2.
- Cislak, Francis E., and M. M. Otto, assignors to Reilly Tar & Chemical Corporation, Indianapolis, Ind. Purification of quinaldine. 2,432,064; Dec. 2.
- Cislak, Francis E., and M. M. Otto, assignors to Reilly Tar & Chemical Corporation, Indianapolis, Ind. Purification of isoquinoline. 2,432,065; Dec. 2.
- Cities Service Oil Company, assignee: *See*—  
Brandt, David G.  
Morgan, John D.  
Morgan, John D., and Levitt.  
Morgan, John D., and Lowe.
- Citizens Trust & Savings Bank, administrator: *See*—  
Stangle, William H.
- City Vending Equipment Corporation, assignee: *See*—  
Newcomer, Everett J.
- Civitaresse, Joseph A., Lodi, N. J. Fuel injecting pump. 2,432,507; Dec. 16.
- Civkin, Victor, Fairfield, Conn., assignor to General Electric Company. Combined closure and rack for refrigerators. 2,414,929; Jan. 28.
- Claesson, Per H. E.: *See*—  
Rost, Helge F., Thunell, Vigren, and Claesson.
- Clair, Louis C., Palestine, Tex. Gas pressure reducing means. 2,415,992; Feb. 18.
- Clair, Louis C., Palestine, assignor to F. Crow and J. G. Long, Houston, Tex. Fusible plug for boilers. 2,431,110; Nov. 18.



- Clairmont, Albert R., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Needle motion. 2,429,394; Oct. 21.
- Clapp, George L., United States Army, Pasco, Wash. Fork lift truck. Re. 22,895; July 8.
- Clapp, James W.: *See*—  
English, Jackson P., and Clapp.
- Clapp, Kenneth S., Cincinnati, Ohio. Concealed lubricant dispensing device. 2,416,819; Mar. 4.
- Clapp, Kenneth S., assignor to Balcrank Incorporated, Cincinnati, Ohio. Coupler. 2,425,692; Aug. 12.
- Clapp, Richard C., Stamford, and R. O. Roblin, Jr., Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Ureylene carbocyclic compounds and their preparation. 2,418,925; Apr. 15.
- Clapp, Richard G.: *See*—  
Bradley, William E., Clapp, and Stephan.  
Dolberg, Charles E., and Clapp.
- Clapp, Richard G., Haverford, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Electrical protective device. 2,428,618; Oct. 7.
- Clapp, Richard G., Haverford, and C. E. Dolberg, assignors, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Direct-current motor supply circuits. 2,428,202; Sept. 30.
- Clapp, Richard H., Danvers, assignor to Sylvania Electric Products, Inc., Salem, Mass. Fluorescent material. 2,417,038; Mar. 4.
- Clapp, Richard H., Danvers, assignor to Sylvania Electric Products Inc., Salem, Mass. Crater lamp. 2,433,809; Dec. 30.
- Clapper, Clyde E., Kansas City, Mo. Anchor stake. 2,431,608; Nov. 25.
- Clapper, Clyde E., Kansas City, Mo. Anchor stake. 2,431,609; Nov. 25.
- Clapper, Merle H., Delavan, Wis. Sewer pipe branch locator. 2,433,028; Dec. 23.
- Clapper, Thomas W.: *See*—  
Kuh, Erwin, and Clapper.
- Clare, C. P., and Co., assignee: *See*—  
Clare, Carl P.
- Clare, Carl P., Arlington Heights, assignor to C. P. Clare & Co., Chicago, Ill. Radio transmitter. 2,415,727; Feb. 11.
- Clark, Alvah D., and W. F. Reichert, Meadville, Pa., assignors to American Viscose Corporation, Wilmington, Del. Production of cellulose esters. 2,426,982; Sept. 9.
- Clark, Andrew P., Louisville, Ky. Air conditioner. 2,414,020; Jan. 7.
- Clark, Avery A., assignor to The Great Western Sugar Company, Denver, Colo. Kiln charging means and method. 2,420,653; May 20.
- Clark, Belle C. and E. O., Berea, Ohio. Lunch box. 2,417,632; Mar. 18.
- Clark, C. & J., Limited, assignee: *See*—  
MacKay, James E.
- Clark Controller Company, The, assignee: *See*—  
Bundy, Oswald M.
- Clark, Earl K.: *See*—  
Blosser, Charles R., and Clark.
- Clark, Earl K., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Thermostatic switch. 2,421,538; June 3.
- Clark, Earl K., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Heating apparatus switch. 2,425,030; Aug. 5.
- Clark, Earl K., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Switch for heating apparatus. 2,427,944; Sept. 23.
- Clark, Earl K., and J. S. Wojcik, Mansfield, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Thermostat. 2,424,150; July 15.
- Clark, Earl K., Mansfield, and E. Bletz, Lexington, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric hot plate with vessel-temperature control. 2,427,945; Sept. 23.
- Clark, Earl W., Stuart, Fla. Knife sharpening apparatus. 2,420,814; May 20.
- Clark, Earl W., West Lynn, Mass., assignor to General Electric Company. Spring controlled index registering photoelectric exposure meter. 2,433,648; Dec. 30.
- Clark, Edgar H., Flushing, assignor to W. D. Teague, New York, N. Y. Electric target and circuit. 2,427,901; Sept. 23.
- Clark, Elmer O.: *See*—  
Clark, Belle C. and E. O.
- Clark Equipment Company, assignee: *See*—  
Burger, Frederick W.  
Burrows, Robert J., and Williams.  
Dunham, Elmer J.  
Lauver, Herbert L., and Ormsby.  
Mills, Burton L.  
Ormsby, Donald D.  
Turner, George L.  
Williams, Alfred O.
- Clark, Ernest: *See*—  
White, Charles E., and Clark.
- Clark, Ernest, Brockton, assignor to Abington Textile Machinery Works, Abington, Mass. Method and apparatus for stripping cylinders of textile machines. 2,433,810; Dec. 30.
- Clark, Francis R.: *See*—  
Marshall, Donald E., and Clark.
- Clark, Frank, Los Angeles, Calif. Bib. 2,423,581; July 8.
- Clark, Frank M., Pittsfield, Mass., assignor to General Electric Company. Liquid-quenched switch. 2,421,241; May 27.
- Clark, Gilbert R.: *See*—  
Hallborg, Henry E., and Clark.
- Clark Grave Vault Company, assignee: *See*—  
La Plante, Clarence A.
- Clark, Harold H., Cuyahoga Falls, assignor to Wingfoot Corporation, Akron, Ohio. Band building apparatus. 2,414,021; Jan. 7.
- Clark, Harry F., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Split-phase motor thermal starting switch. 2,417,912; Mar. 25.
- Clark, Henry T., St. Petersburg, Fla. Vertically reciprocating and intermittently rotating food chopper. 2,422,340; June 17.
- Clark, Homer T., Los Angeles, and C. J. Paterson, Van Nuys, Calif. Lint remover. 2,423,962; July 15.
- Clark, J. R., Company, The, assignee: *See*—  
John, Edward T.
- Clark, James E., Williston Park, and V. L. Ronci, Brooklyn, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,413,689; Jan. 7.
- Clark, John R., Stratford, assignor to United Aircraft Corporation, East Hartford, Conn. Telescoping-retracting hook for aircraft. 2,419,438; Apr. 22.
- Clark, Kendall, Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Domestic washing machine and method. 2,421,242; May 27.
- Clark, Kendall, Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,422,395; June 17.
- Clark, Kendall, Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Computer for aeronautical bomb sights. 2,431,919; Dec. 2.
- Clark, Leslie M., and J. G. Robinson, Northwich, England, assignors to Imperial Chemical Industries Limited. Manufacture of crystalline magnesium hydroxide. 2,415,074; Feb. 4.
- Clark, Lewis P., Akron, Ohio. Control for lighting effects. 2,421,116; May 27.
- Clark, Llewellyn J., and W. F. Goosmann, assignors to The Tanglefoot Company, Grand Rapids, Mich. Reservoir for atomizers. 2,424,151; July 15.
- Clark, Louis F., Pasadena, assignor to Filtril Corporation, Los Angeles, Calif. Conveyor drier having plural compartments and drying gas recirculation. 2,432,964; Dec. 16.
- Clark Manufacturing Company, assignee: *See*—  
Mainwaring, John L.
- Clark, Robert G., London, England, assignor to The Hartford National Bank and Trust Company, Hartford, Conn., trustee. Variable inductance. 2,417,188; Mar. 11.
- Clark, Robert H.: *See*—  
Smith, Lawson A.  
Wilson, Harry C.
- Clark, Robert H., Solon, assignor to The Warner & Swasey Company, Cleveland, Ohio. Machine tool cutting speed indicator. 2,419,120; Apr. 15.
- Clark, Robert W., Teaneck, N. J., assignor to Radio Corporation of America. Timing modulation. 2,415,868; Feb. 18.
- Clark, Robert W., Teaneck, N. J., assignor to Radio Corporation of America. Reactance tube timing modulator. 2,428,931; Oct. 14.
- Clark, Robert W., Teaneck, N. J., and F. J. Somers, New York, N. Y., assignors to Radio Corporation of America. Controllable reactance. 2,428,930; Oct. 14.
- Clark, Thomas, assignor to Armstrong Siddeley Motors Limited, Coventry, England. Mounting of wheels. 2,418,967; Apr. 15.
- Clark Thread Company, The, assignee: *See*—  
Crompton, Benjamin.
- Clark, Trevor H., New York, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Antenna system. 2,419,538; Apr. 29.
- Clark, Trevor H., New York, and P. J. Vander Woude, Riverdale, N. Y., assignors to Federal Telephone and Radio Corporation, Newark, N. J. Loop antenna construction. 2,419,539; Apr. 29.
- Clark, Victor R., Chicago, Ill. Applying multiple-belts. 2,425,785; Aug. 19.
- Clark, Warren H., Glendale, Calif., assignor to United Aircraft Products, Inc., Dayton, Ohio. Cable tension regulator. 2,423,483; July 8.
- Clark, Winslow B. M., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Circuit arrangement for ratio meters. 2,414,190; Jan. 14.
- Clarke, Carole A., Glen Ridge, N. J., assignor to Federal Telephone and Radio Corporation. Rectifier element and stack. 2,414,801; Jan. 28.
- Clarke, Farrell V., assignor to Uxbridge Worsted Co., Inc., Uxbridge, Mass. Loom reversing mechanism. 2,421,539; June 3.
- Clarke, John E., assignor to Magnaflux Corporation, Chicago, Ill. Magnetic testing apparatus. 2,423,552; July 8.



- Clarke, Louis A., Fishkill, and E. F. Pevere, Beacon, assignors to The Texas Company, New York, N. Y. The alkylation of paraffin hydrocarbons. 2,430,212; Nov. 4.
- Clarke, Maurice W., Detroit, Mich. Protective pad. 2,432,559; Dec. 16.
- Clarke, Oliver H., Washington, D. C. Safety razor. 2,421,540; June 3.
- Clarke, Thomas F., executor: *See—*  
Ingolby, Maurice K., and Abbink-Spaink.
- Clarke, Thomas F., executor, et al.: *See—*  
Ingoldby, Maurice K., Abbink-Spaink, and Spencer.
- Clarke, Thomas H., assignor to The Atlantic Refining Company, Philadelphia, Pa. Return bend. 2,429,924; Oct. 28.
- Clarke, William W.: *See—*  
Zademach, Erich R., and Clarke.
- Zademach, Erich R., Clarke, and Ford.
- Clary, Hugh L., and W. H. Petit, assignors to Clary Multiplier Corporation, Los Angeles, Calif. Multiplying unit. Re. 22,947; Dec. 9.
- Clary Multiplier Corporation, assignee: *See—*  
Clary, Hugh L., and Petit.
- Clasen, Claus J. W.: *See—*  
Heater, Charles L., and Clasen.
- Clasen, Claus J. W., assignor to American Steel Foundries, Chicago, Ill. Truck. 2,427,194; Sept. 9.
- Clatfelter, Homer C., Novi Township, Oakland County, Mich. Adapter. 2,432,860; Dec. 16.
- Claud-Mantle, Arthur, Trumbull, Conn. Door unit. 2,429,395; Oct. 21.
- Claud-Mantle, Arthur, Trumbull, assignor to The Bassick Company, Bridgeport, Conn. Door latch. 2,427,386; Sept. 16.
- Claus, Clyde R., assignor to Gates Rubber Company, Denver, Colo. Oil well packer. 2,420,226; May 6.
- Claus, Philip S., Plymouth, and E. J. Readman, Huntington Woods, Mich.; said Readman assignor to said Claus. Automatic drill head. 2,421,541; June 3.
- Clausen, De Witt: *See—*  
Yeomans, Lucien I., and Clausen.
- Clausen, Howard F.: *See—*  
Walz, Claude W., Rasmussen, and Clausen.
- Clausing, George, assignor to Vulcan Corporation, Portsmouth, Ohio. Shoe last. 2,419,944; May 6.
- Clausing, George, assignor to Vulcan Corporation, Portsmouth, Ohio. Machine for making wedge heels and the like. 2,426,487; Aug. 26.
- Clauston, Gustav A., Highland Park, and R. N. Early, assignors to Electric Machinery Mfg. Company, Minneapolis, Minn. Dynamo-electric machine. 2,422,824; June 24.
- Claussen, Fred B.: *See—*  
Ulett, George A., Jr., and Claussen.
- Claussen, William H., and H. B. Wellman, Berkeley, assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif. Preparation of a coprecipitated alumina-molybdena catalyst. 2,432,286; Dec. 9.
- Clawson, Floyd, San Jose, Calif. Roller vane pump or compressor. 2,427,494; Sept. 16.
- Clay, Franklin B., Jr.: *See—*  
Seoville, Henry F., and Clay.
- Clay, Murray G., assignor to The Beardsley & Piper Company, Chicago, Ill. Flask filling apparatus. 2,422,290; June 17.
- Clay Products Association, assignee: *See—*  
Keck, George F.
- Clayton, Andrew B., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Presser device for sewing machines. 2,419,482; Apr. 22.
- Clayton, Benjamin, assignee: *See—*  
Mattikow, Morris.
- Thurman, Benjamin H.
- Clayton, Benjamin, assignor, by mesne assignments, to B. Clayton, Houston, Tex., doing business as Refining, Unincorporated. Refining oil and for producing soap. 2,423,638; July 8.
- Clayton, Don D., Essington, Pa. Circuit time control device. 2,421,411; June 3.
- Clayton, James O.: *See—*  
Borsoff, Victor N., and Clayton.
- Farrington, Bruce B., Clayton, and Rutherford.
- Clayton Manufacturing Company, assignee: *See—*  
Arant, Perry.
- Cline, Edwin L.
- Griswold, Donald G.
- Claytor, Edward M.: *See—*  
Hill, Robert H., and Claytor.
- Clearing Machine Corporation, assignee: *See—*  
Johansen, Einar K.
- Nowak, Alois K.
- Wacker, George W.
- Cleary, John B., Bothell, Wash., assignor to American Aggregate Company, Kansas City, Mo. Treating argillaceous material. 2,430,601; Nov. 11.
- Cleaver, Richard F.: *See—*  
Earp, Charles W., James, and Cleaver.
- Clem, Everett W., Shrewsbury, assignor to Rice Barton Corporation, Worcester, Mass. Fourdrinier papermaking machine. 2,421,829; June 10.
- Clem, Willis J., and H. Podolsky, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacturing tetraethyl lead in the presence of an anhydride. 2,426,598; Sept. 2.
- Clemens, Robert F., assignor to The Dorr Company, New York, N. Y. Electrodepositing a manganese dioxide compound. 2,424,958; Aug. 5.
- Clement, Carl H., Jr., U. S. Army, Fort Belvoir, Va. Boat construction. 2,422,183; June 17.
- Clement, Clyde H., and R. H. Armstrong, Phoenix, Ariz. Wire-stringing machine. 2,413,909; Jan. 7.
- Cleminson, Lew W., assignee, trustee: *See—*  
Wessel, Carl.
- Clemmer, Julius B., and M. F. Williams, Jr., Tuscaloosa, Ala. Froth flotation of silica from iron ore. 2,419,945; May 6.
- Clemmer, Julius B., and C. Rampack, Tuscaloosa, Ala. Froth flotation of nonmetallic minerals. 2,424,552; July 29.
- Clemmer, Julius B., and M. F. Williams, Jr., Tuscaloosa, Ala., assignors to the United States of America, as represented by the Secretary of the Interior. Froth flotation of silica from iron ore with anionic collector. 2,415,416; Feb. 11.
- Cleveland Clinic Foundation, assignee: *See—*  
Gardner, William J.
- Cleveland Crane & Engineering Company, The, assignee: *See—*  
Saiter, Charles H.
- Cleveland, Donald L.: *See—*  
Hatton, John A., Cleveland, and Peery.
- Cleveland Formgrader Company, The, assignee: *See—*  
Tullis, Jasper G.
- Cleveland, James A., Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif. Hydraulic separation of stones from peas. 2,422,657; June 24.
- Cleveland Patents, Incorporated, assignee: *See—*  
Hickok, Robert D.
- Cleveland Pneumatic Tool Company, The, assignee: *See—*  
Greenough, Raymond E.
- Hoffar, Henry S.
- Taylor, Scott, V. E.
- Van Sittert, Paul, and Kovacs.
- Cleveland Trencher Company, The, assignee: *See—*  
Penote, Vincent S.
- Cleveland Universal Jig Company, The, assignee: *See—*  
Liska, Raymond H.
- Cleveland Welding Company, The, assignee: *See—*  
Mueller, Homer L.
- Schultz, Edward A.
- Cleveland Worm & Gear Company, The, assignee: *See—*  
Noble, Warren.
- Clevenger, Cloyd P. and W., Miami, Fla. Aircraft control surfaces for yaw control. 2,433,649; Dec. 30.
- Clevenger, Walton: *See—*  
Clevenger, Cloyd P. and W.
- Clifford, Albert M., Stow, assignor to Wingfoot Corporation, Akron, Ohio. Vinyl furane copolymerization products. 2,419,057; Apr. 15.
- Clifford, Albert M., Stow, assignor to Wingfoot Corporation, Akron, Ohio. Preparation of chlormaleic anhydride. 2,432,470; Dec. 9.
- Clifford, Albert M., and J. G. Lichty, Stow, assignors to Wingfoot Corporation, Akron, Ohio. Vinyl chloride-vinylidene chloride copolymer plasticized with bis (carboalkoxy) diethyl ether. 2,414,022; Jan. 7.
- Clifford, Albert M., and J. R. Long, Stow, assignors to Wingfoot Corporation, Akron, Ohio. Chlorination. 2,425,509; Aug. 12.
- Clifford, Albert M., Stow, and J. G. Lichty, Cuyahoga Falls, assignors to Wingfoot Corporation, Akron, Ohio. Copolymers of a diene and an alpha-substituted beta-halo acrylonitrile. 2,428,907; Oct. 14.
- Clifford, Charles C., Coleraine, Minn., assignor to Oliver Iron Mining Company. Inclined current hydraulic classifier. 2,429,925; Oct. 28.
- Clifford, David G., Montclair, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Tuning cavity resonators. 2,419,121; Apr. 15.
- Clifford, David G., Montclair, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Switch. 2,427,089; Sept. 9.
- Clifford, George E., Detroit, assignor to Calumet and Hecla Consolidated Copper Company, Calumet, Mich. Apparatus for forming finned tubing. 2,431,863; Dec. 2.
- Cliffs Dow Chemical Company, assignee: *See—*  
Reiter, Alfred A., and Beman.
- Clifton, John C., New Eltham, London, and F. W. Rabarts, Bexley, assignors to Vickers-Armstrongs Limited, London, England. Apparatus for the gravitational control of photo and electric cells. 2,427,902; Sept. 23.
- Cline, Delbert C.: *See—*  
Tarr, Philip R., and Cline.
- Cline, Edward T.: *See—*  
Biehn, Gordon F., and Cline.
- Cline, Edwin L., Pasadena, assignor to Clayton Manufacturing Company, Alhambra, Calif. Thermostatic switch. 2,417,860; Mar. 25.
- Clingan, Irvine C., Baltimore, Md., assignor, by mesne assignments, to The American Rolling Mill Company, Middletown, Ohio. Coloring stainless steel. 2,431,986; Dec. 2.
- Clipper, Oliver P., Toledo, Ohio, assignor by mesne assignments, to Libbey-Owens-Ford Glass Company. Corrosion resistant coating for cartridge cases. 2,423,872; July 15.



- Clites, Alfred V., Hastings, Iowa. Corncrib unloading means. 2,430,327; Nov. 4.
- Close, George A., Bay City, Mich. Boiler. 2,421,684; June 3.
- Clothing Devices, Inc., assignee: *See*—  
Blumenfeld, Samuel.
- Cloud, Raymond T., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Transmission system. 2,414,719; Jan. 21.
- Clough, Frederic H.: *See*—  
Wilkinson, Kenneth J. R., Welch, and Clough.
- Clough, John W.: *See*—  
Blyler, Lee L., Clough, Hawley, and Pitman.
- Clough, Orman R., Long Beach, Calif. Loading means for trucks. 2,428,144; Sept. 30.
- Cloutier, George D., assignor to Eversharp, Inc., Chicago, Ill. Fountain pen. 2,419,483; Apr. 22.
- Cloutier, George D., assignor to Eversharp, Inc., Chicago, Ill. Writing instrument. 2,428,960; Oct. 14.
- Clow, Allan B.: *See*—  
Collier, Robert, and Clow.
- Cluett Peabody & Co., Inc., assignee: *See*—  
Touloumis, Simon.
- Clum, Henry W., Upper Darby, assignor to Philco Corporation, Philadelphia, Pa. Steam electric iron. 2,425,598; Aug. 12.
- Clutter, Russel F., assignor to Glenn Tool & Manufacturing Co., Cleveland, Ohio. Work clamp. 2,420,165; May 6.
- Clyne, Joseph, Bronx, N. Y. Garment construction. 2,426,144; Aug. 19.
- Clyne, Joseph, Bronx, N. Y. Garment. 2,426,818; Sept. 2.
- Clyne, Joseph, Bronx, N. Y. Garment and garment construction. 2,426,819; Sept. 2.
- Coake, Charles F., Indianapolis, assignor to Senn Corporation, New Augusta, Ind. System for checking contours. 2,417,062; Mar. 11.
- Coake, Charles F., Indianapolis, assignor to Senn Corporation, New Augusta, Ind. Microlimit indicating system. 2,417,292; Mar. 11.
- Coake, Charles F., Indianapolis, assignor to Senn Corporation, New Augusta, Ind. Vibrator. 2,427,990; Sept. 23.
- Coast Metals, Inc., assignee: *See*—  
Cape, Arthur T., and Foerster.  
Griswold, Howard L.
- Coast Reduction, Inc., assignee: *See*—  
Griswold, Howard L., and Cape.
- Coat Craft Company, assignee: *See*—  
Goldstein, Aaron A.
- Coates, Charles H., Baton Rouge, La., and R. S. Miller, Columbus, Ga. Grenade launcher. 2,416,287; Feb. 25.
- Coates, Ellis W., Squantum, Mass. Feed and making. 2,431,371; Nov. 25.
- Coates, Harold: *See*—  
Basford, Frederick R., Coates, Heilbron, and Cook.
- Cobb, Thomas S., Fort Lauderdale, Fla. Mattress. 2,425,728; Aug. 19.
- Coberly, Carroll H., Denver, Colo. Combined sewage settling and digesting tank having an inclined apron discharging into the tank, an effluent channel, and an inverted V-shaped baffle extending across the tank between the apron and the channel. 2,416,867; Mar. 4.
- Cobl, Walter H., New York, assignor of one-half to J. J. Dougherty, St. Albans, N. Y. Shoe for piles. 2,421,993; June 10.
- Coburn, William K., Cambridge, assignor to Serdex, Inc., Boston, Mass. Nephoscope. 2,420,227; May 6.
- Coburn, William K., Cambridge, assignor to Serdex, Inc., Boston, Mass. Chronometric recorder. 2,426,145; Aug. 19.
- Coca-Cola Company, The, assignee: *See*—  
Kelly, Eugene.
- Coccellato, John, San Francisco, Calif. Protective mask. 2,418,334; Apr. 1.
- Cochener, David L., Kansas City, Mo. Fluorescent lamp fixture. 2,426,436; Aug. 26.
- Cochran, Harry S.: *See*—  
Kerber, Verna V., and Cochran.
- Cochran, Theodore R., Glen Ellyn, assignor to A. B. Dick Company, Chicago, Ill. Light-sensitive layer and making and exposing it. 2,427,443; Sept. 16.
- Cochran, William S., Evanston, assignor to Ditto, Incorporated, Chicago, Ill. Process of printing from a composite hectographic form. 2,423,553; July 8.
- Cocker Machine and Foundry Company, assignee: *See*—  
Watson, Thomas E.  
Whitener, Ernest K.
- Cockrill, William T., and T. J. Duncan, Flint, Mich. Electrode holder. 2,428,065; Sept. 30.
- Cocozella, Anthony, Lynn, Mass. Shoemaking. 2,420,464; May 13.
- Cocozella, Anthony, Lynn, Mass. Shoemaking. 2,420,465; May 13.
- Codet, Howard G.: *See*—  
Hill, Ralph M., and Codet.
- Cody, Mervin H., London Township, Middlesex Co., Ontario, assignor to General Steel Wares Limited, Montreal, Quebec, Canada. Oven control. 2,421,452; June 3.
- Coe, Clarence S.: *See*—  
Doumani, Thomas F., and Coe.
- Coe, Glenn D.: *See*—  
Coghill, William H., and Coe.
- Coe Laboratories, Inc., assignee: *See*—  
Vallandigham, Vance V.
- Coe, Mayne R., Washington, D. C., assignor to Rile-Coe Filter Process, Inc., Dover, Del. Packaging material and process covered thereby. 2,418,818; Apr. 15.
- Coe, Reginald T., Rugby, T. F. Robinson, Kenilworth, and D. F. Welch, Rugby, England, assignors to General Electric Company. Ignition system. 2,433,650; Dec. 30.
- Coes, Loring, Jr.: *See*—  
Kistler, Samuel S., and Coes.
- Coetzee, Matthys J. U., Nigel, Transvaal, Union of South Africa. Rotary planter. 2,424,742; July 29.
- Coffey, Charles A.: *See*—  
Walton, William T., Coffey, and Knapp.
- Coffey, Elmer W., La Grange, assignor to H. P. Smith Paper Company, Chicago, Ill. Roll stand. 2,415,809; Feb. 18.
- Coffey, Irven E., Normandy, assignor to Carter Carburetor Corporation, St. Louis, Mo. Making diaphragms. 2,422,529; June 17.
- Coffey, Irven E., Normandy, assignor to Carter Carburetor Corporation, St. Louis, Mo. Fuel pump. 2,426,965; Sept. 2.
- Coffin, Raymond L., Springfield, Mass. Pants guard and reflector. 2,413,748; Jan. 7.
- Coffman, Donald D.: *See*—  
Burk, Robert E., Coffman, and Kalb.
- Coffman, Donald D., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of long-chain fatty acids. 2,433,016; Dec. 23.
- Coffman, Donald D., and T. A. Ford, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerizing vinyl fluoride. 2,419,008; Apr. 15.
- Coffman, Donald D., and T. A. Ford, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Vinyl fluoride copolymers. 2,419,009; Apr. 15.
- Coffman, Donald D., and T. A. Ford, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyvinyl fluoride. 2,419,010; Apr. 15.
- Coffman, Donald D., and J. R. Roland, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of alkyl-substituted aromatic hydrocarbons. 2,432,381; Dec. 9.
- Coffman, John R., St. Paul, Minn., and H. F. Lewis, Appleton, Wis., assignors, by mesne assignments, to General Mills, Inc. Treatment of protein with acids and product resulting therefrom. 2,420,735; May 20.
- Coffman, John R., St. Paul, Minn., and H. F. Lewis, Appleton, Wis., assignors, by mesne assignments, to General Mills, Inc. Treatment of protein with acids and furfuryl alcohol and product resulting therefrom. 2,420,736; May 20.
- Coffman, Roscoe A., Las Vegas, Nev. Apparatus for cooking meats and the like. 2,423,963; July 15.
- Coffman, Roscoe A., Fall Brook, Calif. Cooking meat. 2,423,964; July 15.
- Coggins, George F., New Bedford, and J. F. Ahearn, Reading, assignors to Aerovox Corporation, New Bedford, Mass. Processing of castor oil. 2,418,819; Apr. 15.
- Coggins, George F., New Bedford, and J. F. Ahearn, Reading, assignors to Aerovox Corporation, New Bedford, Mass. Dielectrics. 2,418,820; Apr. 15.
- Coghill, Robert D., and A. J. Moyer, Peoria, Ill., assignors to United States of America, as represented by the Secretary of Agriculture. Method for production of increased yields of penicillin. 2,423,873; July 15.
- Coghill, William H., and G. D. Coe, Tuscaloosa, Ala., assignors to the Government of the United States, as represented by the Secretary of the Department of the Interior. Plural stage hydraulic classifier. 2,418,821; Apr. 15.
- Cohan, Albert M., Chicago, Ill. Display card. 2,417,677; Mar. 18.
- Cohan, Alvin M., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Blasting explosive. 2,413,862; Jan. 7.
- Cohan, Alvin M., North Bergen, N. J., assignor to Atlas Powder Company, Wilmington, Del. Propellant fuel cartridge. 2,429,548; Oct. 21.
- Cohen, Aaron: *See*—  
Bergel, Franz, Cohen, Morrison, and Moss.
- Cohen, Alonzo C., Jr.: *See*—  
Regad, Eugene D., and Cohen.
- Cohen, Arthur M., New Rochelle, N. Y., assignor to Ward Leonard Electric Company. Making electric contact devices. 2,429,048; Oct. 14.
- Cohen, Harold, Elizabeth, N. J. Mast. 2,431,610; Nov. 25.
- Cohen, Harold, Elizabeth, N. J. Tower construction. 2,432,382; Dec. 9.
- Cohen, Jacob B., Brighton, and H. E. Hanson, Dorchester, Mass. Microarea precision locator. 2,420,654; May 20.
- Cohen, Louis, Bethesda, Md. Radio receiving system. 2,415,810; Feb. 18.
- Cohen, Meyer, Flushing, assignor to Agency Paper Company, New York, N. Y. Portfolio. 2,414,720; Jan. 21.
- Cohen, Monroe J., assignor to Monarch Wine Company, Inc., Brooklyn, N. Y. Chill-proofing and stabilizing wine, grape juice, and other fruit juices. 2,419,628; Apr. 29.



- Cohen, Morris U., Brooklyn, and J. Steigman, New York, N. Y. Reducing reflection of a transparent body. 2,428,357; Oct. 7.
- Cohen, Samuel Z., Roxbury, and M. Rosenberg, Revere, Mass. Bedspring bracket. 2,432,724; Dec. 16.
- Cohen, Theodore A., assignor, by mesne assignments, to Wheeler Instruments Company, Chicago, Ill. Control apparatus. 2,433,599; Dec. 30.
- Cohen, William, Detroit, Mich. Gauge plate adjusting device for meat cutting machines. 2,433,600; Dec. 30.
- Cohn, David, Brooklyn, N. Y., assignor to Margon Corporation, Newark, N. J. Doll eye. 2,425,510; Aug. 12.
- Cohn, Henry, Detroit, Mich. Gas-fired unit heater. 2,417,103; Mar. 11.
- Cohn, Irwin E., Leominster, Mass. Cigarette package holder. 2,420,031; May 6.
- Cohn, Mortimer: *See—*  
Butterworth, Harry W., Jr., S. and M. Cohn, and Walter.
- Cohn, Samuel: *See—*  
Butterworth, Harry W., Jr., S. and M. Cohn, and Walter.
- Cohn, Willi M., El Cerrito, Calif. Welding method. 2,416,379; Feb. 25.
- Cohnhoff, Erich, Saint Marcelin, France; vested in the Attorney General of the United States. Artificial resin and coating paper therewith. 2,428,358; Oct. 7.
- Cohoes Envelope Company, Inc., assignee: *See—*  
Walsh, Thomas E.
- Coinmaster Corp., The, assignee: *See—*  
Dale, Charles M.
- Coker, James L., III, assignor to Sonoco Products Company, Hartsville, S. C. Making containers. 2,415,625; Feb. 11.
- Coker, Norman W., Paris, Tex. Apparatus for manufacturing wire coat hangers. 2,430,805; Nov. 11.
- Colaiaico, August P.: *See—*  
Cox, Joseph H., Hopper, and Colaiaico.
- Colbaugh, Samuel G., Kilgore, Tex. Pump seal assembly. 2,417,349; Mar. 11.
- Colbert, Edward, Chicago, Ill., assignor, by mesne assignments, to the United States of America, as represented by the Atomic Energy Commission. Locating and welding fixture. 2,431,732; Dec. 2.
- Colbert, William H., and A. R. Weinrich, Brackenridge, Pa., assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Coating apparatus. 2,414,406; Jan. 14.
- Colbert, William H., Brackenridge, Pa., and W. L. Morgan, Columbus, assignors, by mesne assignments, to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Rearview mirror. 2,418,335; Apr. 1.
- Colbert, William H., Brackenridge, Pa., and W. L. Morgan, Columbus, assignors, by mesne assignments, to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Colored mirror. 2,430,452; Nov. 11.
- Colbert, William H., and A. R. Weinrich, Brackenridge, Pa., assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Evaporating metals. 2,432,657; Dec. 16.
- Colby, Eli F., Hanlontown, Iowa. Peat digging apparatus. 2,415,728; Feb. 11.
- Colby Lighter Corporation, assignee: *See—*  
Kolberg, Abner, and Kohn.
- Cold Metal Products Company, The, assignee: *See—*  
Cooper, David P.
- Coldwell, Joe D., Timperley, England. Wheeled load lifting vehicle. 2,429,746; Oct. 28.
- Cole, Allen T.: *See—*  
Greene, Ernest W., Sherertz, and Cole.
- Cole, Archie G., Gilbertsville, Ky. Pipe coupling. 2,428,652; Oct. 7.
- Cole, Donald F., and J. F. Wynn, U. S. Army, Fort Benjamin Harrison, Ind. Mold coating composition and protecting plastics during molding. 2,414,093; Jan. 14.
- Cole, Edward J., Peekskill, N. Y. Grip bolt. 2,428,783; Oct. 14.
- Cole, Gilmore N., and F. H. Hopper, Manchester, assignors to United Aircraft Corporation, East Hartford, Conn. Engine shipping case. 2,418,868; Apr. 15.
- Cole, Harld E., assignee, et al.: *See—*  
Sherman, Bernard H.
- Cole, Harold E., H. O. McAlinden, and R. B. Banks, Toronto, Ontario, Canada. Toy. 2,426,437; Aug. 26.
- Cole, Harry, Andover, and E. L. Kezertee, Conneaut, Ohio. Clothesline reel. 2,423,226; July 1.
- Cole Industries, Inc., assignee: *See—*  
Cole, Louis W. and T. M.
- Cole, Thomas M.
- Cole, James D., assignor to The Lamb Electric Company, Kent, Ohio. Magnetic motor starting switch. 2,428,784; Oct. 14.
- Cole, John W.: *See—*  
Julian, Percy L., Cole, and Meyer.  
Julian, Percy L., Cole, Magnani, and Meyer.
- Cole, Louis W. and T. M., New York, assignors to Cole Industries, Inc., Long Island City, N. Y. Multipole tripping device. 2,421,830; June 10.
- Cole, Percy W., executor: *See—*  
Ingolby, Maurice K., and Abbink-Spauk.
- Cole, Percy W., executor, et al.: *See—*  
Ingolby, Maurice K., Abbink-Spauk, and Spencer.
- Cole, Ralph C.: *See—*  
Gibson, James D., and Cole.
- Cole, Ralph C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Purification of hydrofluoric acid. 2,415,003; Jan. 28.
- Cole, Ralph C., Phillips, Tex., assignor to Phillips Petroleum Company. Prevention of siliceous deposits in fluorine-containing catalyst hydrocarbon conversions. 2,430,453; Nov. 11.
- Cole, Ralph L., Long Branch, N. J. Radio direction finding apparatus. 2,427,657; Sept. 23.
- Cole, Reginald A. L., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Arrangements for insulatingly leading electric conductors through metal casings. 2,431,308; Nov. 25.
- Cole, Robert M., Oakland, assignor to Shell Development Company, San Francisco, Calif. Production of aromatic hydrocarbons. 2,423,176; July 1.
- Cole, Robert M., Long Beach, assignor to Shell Development Company, San Francisco, Calif. Catalytic treatment of sulfur-bearing hydrocarbon distillates. 2,431,920; Dec. 2.
- Cole, Thomas M.: *See—*  
Cole, Louis W. and T. M.
- Cole, Thomas M., New York, assignor to Cole Industries, Inc., Long Island City, N. Y. Combined fuse and electric switch. 2,423,227; July 1.
- Colegrove, Charles E., Lakewood, assignor to White Sewing Machine Corporation, Cleveland, Ohio. Bobbin winder mechanism. 2,432,138; Dec. 9.
- Colella, Gerald S., Bradford, Mass., assignor to Beckwith Manufacturing Company, Dover, N. H. Midsole construction for shoes. 2,419,629; Apr. 29.
- Coleman, Charles J., assignor to Container Corporation of America, Chicago, Ill. Carton. 2,415,869; Feb. 18.
- Coleman, Clarence C., assignor of one-half to M. P. McCaffrey and one-half to W. Ruddock, Los Angeles, Calif. Material handling apparatus. 2,417,544; Mar. 18.
- Coleman Company, The, assignee: *See—*  
Tullis, Boyd W.
- Coleman, Edwin J.: *See—*  
Snyder, Russel D., and Coleman, and Schmitz.
- Coleman, Eric P.: *See—*  
Aughtie, Frank, Thurston, and Coleman.
- Coleman, Gerald H., and W. D. Schroeder, assignors to The Don Chemical Company, Midland, Mich. Amine salts of polychloro-2-hydroxydiphenyl. 2,417,809; Mar. 25.
- Coleman, Gerald H., and W. D. Schroeder, assignors to The Dow Chemical Company, Midland, Mich. Ethers of 2-hydroxy-3,5-x-trichloro-diphenyl. 2,421,924; June 10.
- Coleman, Gerald H., and F. B. Smith, assignors to The Dow Chemical Company, Midland, Mich. Amine salts of dinitrophenols. 2,422,658; June 24.
- Coleman, Gerald H., Midland, Mich., and W. D. Schroeder, Maplewood, N. J., assignors to The Dow Chemical Company, Midland, Mich. Amine salts of trichloro-2-hydroxy-diphenyl. 2,427,658; Sept. 23.
- Coleman, Joseph A., assignor to Maiden Form Brassiere Company, Inc., New York, N. Y. Brassiere. 2,425,145; Aug. 5.
- Coleman, Joseph E., Red Bank, N. J., assignor to the Government of the United States of America, as represented by the Secretary of War. Crystal analysis apparatus. 2,418,463; Apr. 8.
- Coleman, Philip C., Chattanooga, Tenn., assignor of one-half to R. Troxel, Cincinnati, Ohio. Bottle cap. 2,423,582; July 8.
- Coleman, Ralph A., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Di (aryl sulfene) amides as co-accelerators. 2,423,007; June 24.
- Coleman, Roy E., Chicago, Ill., assignor to Time, Incorporated. Preparing zein-containing solutions. 2,433,029; Dec. 23.
- Coleman, Roy F., New York, N. Y. Force system. 2,416,570; Feb. 25.
- Coleman, William, assignor to Johnson City Mills, Johnson City, Tenn. Moistening apparatus for knitting yarns. 2,420,355; May 13.
- Coles, Clifford H.: *See—*  
Sander, Frank V., and Coles.
- Coles, Harold W., Rochester, N. Y., assignor to Joseph E. Seagram & Sons, Inc., Shively, Ky. Recovering dextrins from stillage syrup. 2,431,309; Nov. 25.
- Coles, Leon M., Port Chester, N. Y. Attachment for power razors to facilitate hair trimming. 2,423,874; July 15.
- Colesworthy, Edward H., Atlanta, Ga. Flexible waterproof material and its production. 2,423,294; July 1.
- Coley, James P., London, England, assignor, by mesne assignments, to The Union Switch and Signal Company, Swissvale, Pa. Coded track circuit signalling system for railways and the like. 2,418,869; Apr. 15.
- Coley, Nelson B.: *See—*  
Wight, Sedgwick N., Field, and Coley.
- Coley, Richard R., Groose Pointe Farms, Mich. Bottle cap removing device. 2,416,087; Feb. 18.
- Coley, Silas B., assignee: *See—*  
Reavis, Charles N.
- Colgate-Palmolive-Peet Company, assignee: *See—*  
Compa, Russell E.  
Dreger, Emil E., and Ross.  
Gebhart, Arthur I., and Ross.  
Heald, Robert F., and Givan.  
Holuba, Stanley J.



- Colgate-Palmolive-Peet Company, assignee: *See*—Continued.
- Marshall, Donald E., and Clark.  
Percy, Joseph H.  
Ross, John.  
Ross, John, and Potter.  
Smith, Ralph C.  
Trent, Walter Russell.
- Collard, John, Hammersmith, London, England. Attenuator for electric waves of very short length. 2,427,643; Sept. 16.
- Collaud, Charles, Geneva, Switzerland, assignor to Givaudan-Delawanna Inc., New York, N. Y. Composition of matter with a scent of ambrettolide and making same. 2,417,151; Mar. 11.
- Colley, Russell S.: *See*—  
Dasher, Paul J., Crawford, and Colley.
- Colley, Russell S., Kent, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Valve. 2,433,092; Dec. 23.
- Collie, Benjamin, C. H. Giles, and D. G. Wilkinson, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Inhibition of acid-fading on dyed cellulose acetate with N:N'diphenylethylene diamine. 2,416,380; Feb. 25.
- Collie, Lyman M.: *See*—  
Rodman, John R., and Collie.
- Collier, Robert T., assignee: *See*—  
Knoy, Marion F.
- Collin, John Q.: *See*—  
Leonhard, Lee W., and Collin.  
Ryan, Commodore D., and Sager.
- Collins, Austin T., Detroit, Mich. Lubricant composition. 2,426,983; Sept. 9.
- Collins, Benjamin W., Swarthmore, and E. T. Roetman, Ridley Park, Pa., assignors to American Viscose Corporation, Wilmington, Del. Waste liquor disposal. 2,414,930; Jan. 28.
- Collins, Bessie M., executrix: *See*—  
Collins, Donald B.
- Collins, Clark T., assignee: *See*—  
Lewis, Robert P.
- Collins, Donald B., deceased, by B. M. Collins, Houston, Tex., executrix, assignor to Shell Development Company, San Francisco, Calif. Oil well screen. 2,417,152; Mar. 11.
- Collins, Edward T., assignor to Scovill Manufacturing Company, Waterbury, Conn. Electric socket. 2,424,435; July 22.
- Collins, Howard W., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Reinforced plywood. 2,428,325; Sept. 30.
- Collins, Howard W., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Apparatus for making tubular fibrous products. 2,428,653; Oct. 7.
- Collins, Howard W., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Reinforced plastic. 2,428,654; Oct. 7.
- Collins, John E., assignor to The Sinclair Collins Valve Company, Akron, Ohio. Cam structure. 2,418,757; Apr. 8.
- Collins, John E., assignor to The Sinclair-Collins Valve Company, Akron, Ohio. Sequence controller. 2,421,481; June 8.
- Collins, John E., and C. K. Morton, assignors to Valvair Corporation, Akron, Ohio. Fluid valve. 2,415,417; Feb. 11.
- Collins, John H., Jr., and J. C. Nettles, Hampton, Va. Torque meter. 2,428,012; Sept. 30.
- Collins, Laurence H., and E. C. Smith, Baltimore, Md. Vibrator. 2,433,739; Dec. 30.
- Collins, Laurence H., and E. C. Smith, Baltimore, Md. Electrical vibrator. 2,433,740; Dec. 30.
- Collins, Milford E., Los Angeles, Calif., assignor to Radio Corporation of America. Pad roller assembly. 2,418,544; Apr. 8.
- Collins Radio Company, assignee: *See*—  
Beetham, Robert B.  
May, Richard W.
- Collins, Ralph D., assignee, et al.: *See*—  
Arnold, Ralph J.
- Collins, Robert R., Weed, Calif. Condiment shaker. 2,431,543; Nov. 25.
- Collins, Ronald B.: *See*—  
Nicholson, Ernest E., and Collins.
- Collins, Ronald B., and H. O. Dickinson, assignors to Ilford Limited, Ilford, England. Photographic emulsions containing supersensitizing dye combinations. 2,422,080; June 10.
- Collins, William A.: *See*—  
Barnes, Joseph T., and Collins.
- Collins, William B., assignee: *See*—  
Dague, Harold F.
- Collinson, Frederick B., Litherland, Liverpool, England. Machine for and method of cutting shaped pieces from sheet material. 2,424,678; July 29.
- Collitto, Samuel, Jr., Newark, N. J. Spherical bearing device. 2,423,684; July 8.
- Collom, Cletus J., Detroit, assignor to Weltronic Company, Oakland County, Mich. Control apparatus for gas discharge tubes. 2,430,390; Nov. 4.
- Collonges, Roger S. A., Lyon, and J. P. S. Vallée, Alfort, assignors to "Chimlotechnic" Union Chimique du Nord et du Rhône, Société Anonyme, Venissieux, France. Producing nonsiccative rosin oils. 2,431,788; Dec. 2.
- Collura, Francesco, New York, N. Y., assignor to Thayer Company, Gardner, Mass. Infant's walker and stroller. 2,427,550; Sept. 16.
- Collyer, Leonard C.: *See*—  
Connor, Francis G., Benson, and Collyer.
- Collyer, Leonard C., London, England. Mechanism for feeding or propelling bodies of uniform cross-section. 2,427,659; Sept. 23.
- Collyer, Robert, Chatham, and A. B. Clow, Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y. Life jacket dye marker. 2,418,397; Apr. 1.
- Colman, Howard D., deceased; H. A. Severson, executor, assignor to Barber-Colman Company, Rockford, Ill. Message intercepting and relaying circuits in an automatically directed message telegraph system. 2,424,223; July 22.
- Colombo, Paul V., Plainfield, N. J., assignor to D. D. Levine, doing business under the firm, name, and style of Electronic Utilities Co., New York, N. Y. Automatic temperature control system. 2,427,444; Sept. 16.
- Colombo, Tullio, Milan, Italy. Traction-increasing wheel. 2,424,799; July 29.
- Colonial Radio Corporation, assignee: *See*—  
Nicholson, Madison G., Jr.  
Pifer, Marion J.  
Vorie, Innokent N.
- Colonna, Nicola A., Bronx, N. Y. Lady's garment. 2,429,396; Oct. 21.
- Color Research Corporation, assignee: *See*—  
Grimson, Samuel B.
- Colorado Fuel and Iron Corporation, assignee: *See*—  
Elzi, Frank A.
- Colorado Iron Works Company, assignee: *See*—  
Bitzer, Edmund C.  
Dickson, Thomas A.
- Colson Corporation, The, assignee: *See*—  
Roe, William C.
- Colt, George H., London, and A. J. Chappel, Middlesborough, England. Apparatus for enumerating and indicating the number of available seats on the decks of passenger carrying vehicles. 2,421,774; June 10.
- Colton, Henry S., R. W. Frischmuth, Cleveland, Ohio, and R. L. Knowles, Bronxville, N. Y. Recovering values from calcareous and siliceous materials. 2,430,863; Nov. 18.
- Colton, Lloyd W.: *See*—  
Harris, Le Mar W., and Colton.
- Colton, Roger B., Washington, D. C., R. V. D. Corput, Belmar, and P. E. Watson, deceased, West Long Branch, N. J.; E. T. Watson, Asbury Park, N. J., administrators. Radio direction finding system. 2,427,660; Sept. 23.
- Colt's Patent Fire Arms Manufacturing Company, assignee: *See*—  
Swartz, William L.
- Columbia Broadcasting System, Inc., assignee: *See*—  
Goldmark, Peter C.
- Columbia Development Company, assignee: *See*—  
Rubin, Abraham B., and Faber.
- Columbia Electric and Manufacturing Company, assignee: *See*—  
Ruetsch, Fred C.
- Columbia Recording Corporation, assignee: *See*—  
Rodman, Isaac P.
- Columbia Ribbon and Carbon Manufacturing Company, Inc., assignee: *See*—  
Newman, Douglas A.
- Columbian Carbon Company, assignee: *See*—  
Reardon, William E.
- Columbus Auto Parts Company, The, assignee: *See*—  
Klages, Reynold E., and Flumerfelt.
- Columbus Coated Fabrics Corporation, assignee: *See*—  
Hyatt, Charles S., and Brooks.
- Columbia Protektosite Company, Inc., assignee: *See*—  
Desimone, Anthony J.
- Columbus Iron Works Company, assignee: *See*—  
Howard, Toombs, and Barr.
- Colvin, Cleon, assignee, et al.: *See*—  
Colvin, Lewis H.
- Colvin, Lewis H., Indianapolis, Ind., assignor to W. B. and C. Colvin, New York, N. Y. Cement composition and producing. 2,428,785; Oct. 14.
- Colvin, Wayne B., assignee, et al.: *See*—  
Colvin, Lewis H.
- Colwell, Archie T., and H. H. Engemann, Cleveland, Ohio, assignors to Thompson Products, Inc. Making cylinder liner sleeves. 2,414,931; Jan. 28.
- Colwell, Lester V., Ann Arbor, Mich., assignor to Defiance Machine Works, Inc., Defiance, Ohio. Machine tool spindle. 2,430,843; Nov. 11.
- Colwell, Lester V., Ann Arbor, Mich., assignor to Defiance Machine Works, Inc., Defiance, Ohio. Rotary cutting tool. 2,430,844; Nov. 11.
- Colwell, Lester V., Ann Arbor, Mich., assignor to Defiance Machine Works, Inc., Defiance, Ohio. Machine tool rotary spindle stabilizer. 2,432,383; Dec. 9.
- Colwill, Richard H., Chicago, Ill. Toolmaker's utility block. 2,422,773; June 24.



- Comber, Francis W., Philadelphia, Pa. Antirattle device for window sash. 2,417,970; Mar. 25.
- Combined Locks Paper Co., assignee: *See*—Muggleton, Gerald D.
- Combined Metals Reduction Company, assignee: *See*—Christensen, Niels C.
- Combined Optical Industries Limited, assignee: *See*—Jeffrey, John H.
- Combs, Edward E., Long Branch, N. J. Spherical coil for variometers. 2,425,304; Aug. 12.
- Combs, James M., Cleveland, Ohio. Life-preserving-bathing suit. 2,426,726; Sept. 2.
- Combustion Control Corporation, assignee: *See*—Long, John A.  
Thomson, Elihu C.
- Combustion Engineering Company, Inc., assignee: *See*—Crites, Joe.  
Frangquist, Gustav H.  
Marshall, Leonard J.  
Skelly, John S.
- Comegys, Courtney L., University Heights, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del. Printing device. 2,425,305; Aug. 12.
- Comfy Manufacturing Company, The, assignee: *See*—Waranch, Theodore M.
- Comis, James L., and G. Nestos, assignors of one-third to P. Uher, Chicago, Ill. Collapsible clothing hanger. 2,425,146; Aug. 5.
- Comiskey, Frederick K., Detroit, Mich., assignor to Eureka Williams Corporation. Suction cleaner. 2,414,853; Jan. 28.
- Commerce, Government of the United States, as represented by the Secretary of the Department of: *See*—Saunders, James B.
- Commercial Controls Corporation, assignee: *See*—Moore, George S., and Scheb.  
Ryan, Commodore D., and Drake.
- Commercial Solvents Corporation, assignee: *See*—Campbell, Arthur W.  
Dale, Julian K.  
Hickey, Richard J.  
Hodge, Edward B.  
Morey, Glen H.  
O'Loughlin, Walter K.  
Senkus, Murray.  
Stengel, Leonard A., and Egly.  
Tindall, John B.  
Tryon, Phillip F.
- Commonwealth Engineering Company, The, assignee: *See*—Toulmin, Harry A., Jr.
- Commonwealth Engineering Company of Ohio, The, assignee: *See*—Mantle, Hermon L.
- Communication Patents Limited, assignee: *See*—Adorjan, Paul.
- Comolli, Giampiero, Milan, Italy, assignor to Sandoz A. G., Basel, Switzerland. Improving the properties of water-insoluble artificial protein fibres. 2,326,816; Sept. 2.
- Comp, Russell B., Bogota, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Degassification. 2,420,356; May 13.
- Compagnie de Produits Chimiques et Electrometallurgiques Allais, Froges et Camargue, assignee: *See*—Thibon, Honoré J.
- Comper, Adrian: *See*—Alexander, Horace W., and Comper.
- Compo Shoe Machinery Corporation, assignee: *See*—Blyler, Lee L.  
Card, William C., Jr.  
Dawson, Fred.  
Dodge, Milton L.  
Small, Edward F.
- Composite Rubber Products Corporation, assignee: *See*—Hosking, Oakley W.
- Comptoir Linier, assignee: *See*—Bricout, Henri.
- Compton, Henry P., Abilene, Tex. Coin depository for associated parking meters. 2,431,229; Nov. 18.
- Compton, Jack, Cuyahoga Falls, and M. W. Wilson, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Adhering fibers to rubber. 2,429,397; Oct. 21.
- Compton, Justin S., Lebanon, assignor to The National Cash Register Company, Dayton, Ohio. Calculating device. 2,416,793; Mar. 4.
- Comstock, Elmer E., Park Ridge, Ill. Rectifier. 2,426,599; Sept. 2.
- Comstock, Emery F., assignor of one-half to W. V. Hallerman, Cincinnati, Ohio. Hydraulic drive. 2,424,384; July 22.
- Comstock, James A., Clyde, N. Y., assignor, by mesne assignments, to Acme Electric Corporation. Casing for electrical devices. 2,413,953; Jan. 7.
- Comstock, Rock L., Weeks, assignor to Bay Chemical Company, Inc., New Orleans, La. Dustless salt and process. 2,421,185; May 27.
- Comstock, Rock L., Weeks, assignor to Bay Chemical Company, Inc., New Orleans, La. Preparation of purified brine. 2,433,601; Dec. 30.
- Comstock, Rock L., Weeks, La., and H. F. Reeves, Jr., Wyandotte, Mich., assignors to Bay Chemical Company, Inc., New Orleans, La. Stabilization of furfural. 2,426,143; Aug. 19.
- Comtois, Rodolphe, St. Hyacinthe, Quebec, Canada. Spreading machine. 2,418,546; Apr. 8.
- Comyns, William L.: *See*—Strebe, Frank C., and Comyns.
- Conant, Goldsmith H., Jr., Albany, N. Y. Cold sterilizing solutions. 2,422,951; June 24.
- Conard, Frederick U., West Hartford, Conn., assignor to Underwood Corporation. Noiseless platen for type-writing machines. 2,418,698; Apr. 8.
- Condon, John, Whitestone, assignor of one-half to R. J. Welsh, Long Island City, N. Y. Bulkhead and dock. 2,420,228; May 6.
- Cone Automatic Machine Company Inc., assignee: *See*—Ingalls, John M.  
Miller, Carroll E.  
Ranney, Herbert H.  
Weld, Henry H.
- Cone, John H., Goose Creek, Tex., assignor to Standard Oil Development Company. Eliminating foaming in the recovery of sulphuric acid from an olefin recovery operation. 2,426,082; Aug. 19.
- Cone, John H., Goose Creek, Tex., assignor to Standard Oil Development Company. Separation of olefins from a hydrocarbon stream. 2,433,030; Dec. 23.
- Conescu, Sidney, Brooklyn, N. Y. Fiberboard folding box construction. 2,414,854; Jan. 28.
- Confections, Inc., assignee: *See*—Kooman, Jacob B.
- Conjurske, Frank J., Sturgeon Bay, Wis. Face protector shield for shampooing. 2,424,352; July 22.
- Conkle, Carl J.: *See*—Orr, Palmer, and Conkle.
- Conklin, Edward R., Wauseon, Ohio. Popgun. 2,425,866; Aug. 19.
- Conklin, James W., Indianapolis, Ind., assignor to Radio Corporation of America. Electric motor control system. 2,423,228; July 1.
- Conklin, Robert M., West Newbury, Mass., assignor to Western Electric Company, Incorporated, New York, N. Y. Toroidal coil winding machine. 2,425,511; Aug. 12.
- Conklin, Robert M., West Newbury, Mass., assignor to Western Electric Company, Incorporated, New York, N. Y. Coil winding machine. 2,430,105; Nov. 4.
- Conklin, Robert M., West Newbury, Mass., assignor to Western Electric Company, Incorporated, New York, N. Y. Coil winding machine. 2,430,106; Nov. 4.
- Conlan, David, assignor to Conlan Electric Corporation, Brooklyn, N. Y. Plug and switch box. 2,420,865; May 20.
- Conlan Electric Corporation, assignee: *See*—Conlan, David.
- Conlin, Howard J.: *See*—Freeman, George A., and Conlin.
- Conmar Products Corporation, assignee: *See*—Ulrich, Frederick.  
Ulrich, Frederick, and Scheuermann.
- Conn, C. G., Ltd., assignee: *See*—Canfield, Bailey L.  
Heineman, John H.  
Kent, Earle L.  
Kent, Earle L., and Tresseder.  
Long, Thomas H.
- Conn, Robert C., and F. H. Adams, Bound Brook, and J. P. Goulding, Neshanic Station, N. J., assignors to American Cyanamid Company, New York, N. Y. Derivatives of amino-benzo-p-dioxans. 2,419,334; Apr. 22.
- Connell, Frederick T.: *See*—Jones, John M., and Connell.  
Connell, Isabel L., administratrix: *See*—Jones, John M., and Connell.
- Connell, John A., Carlsbad, N. Mex. Lock lubricator. 2,422,224; June 17.
- Connell, John A., Carlsbad, N. Mex. Lock. 2,427,837; Sept. 23.
- Connolly, John H., Phoenix, Ariz. Internal-combustion engine. 2,432,725; Dec. 16.
- Conner, Guy O., Bedford, Ohio. Die set. 2,422,774; June 24.
- Conner, Guy O., East Cleveland, Ohio. Die set. 2,422,775; June 24.
- Conner, Harvey G., Paisley, Oreg. Tail gate and fastener therefor. 2,429,805; Oct. 28.
- Conner, Jack S., Los Angeles, Calif. Retractable wing and landing gear. 2,425,306; Aug. 12.
- Connors, Peter J., assignor to Koppers Company, Inc., Pittsburgh, Pa. Conveyor belt pulley. 2,427,590; Sept. 16.
- Connolly, George E., San Francisco, Calif., assignor to Nichols Engineering & Research Corporation. Method and furnace apparatus for calcining carbonate material and for other purposes. 2,421,542; June 3.
- Connolly, Gerald C., Baton Rouge, La., assignor to Standard Oil Development Company. Titania gel-boria catalyst and its method of preparation. 2,424,152; July 15.
- Connolly, James E., Baltimore, Md. Razor and blade. 2,413,863; Jan. 7.
- Connolly, James E., Baltimore, Md. Razor. 2,413,864; Jan. 7.
- Connor, Douglas M., Watchung, N. J. Artificial knee and brake. 2,424,078; July 15.



- Connor, Edward H.: *See*—  
Mirfield, George E., and Connor.
- Connor, Francis G., E. K. Benson, and L. C. Collyer, London, England, assignors to The Ohio Crankshaft Company, Cleveland, Ohio. Work feeding and rotating apparatus. 2,429,201; Oct. 21.
- Connor, Roger, assignor to The McBee Company, Athens, Ohio. Selector rod holder. 2,427,046; Sept. 9.
- Connor, William B., assignee: *See*—  
Dauphinee, George S.
- Hyland, John J., and Muldoon.
- Conrad, Albert G., Mount Carmel, assignor to Manning, Maxwell & Moore, Inc., Bridgeport, Conn. Electrical temperature-indicating system. 2,430,756; Nov. 11.
- Conrad, Albert G., Mount Carmel, and F. E. Hiller, Stratford, assignors to Manning, Maxwell & Moore, Inc., Bridgeport, Conn. Electrical remote-reading position-indicating apparatus. 2,430,757; Nov. 11.
- Conrad, Harold E., assignee, et al.: *See*—  
Conrad, Harold L.
- Conrad, Harold L., Oklahoma City, Okla., assignor of one-half to M. L. Conrad and one-half to H. E. Conrad. Signal system for cranes. 2,418,576; Apr. 8.
- Conrad, Ivan W., Alexandria, Va. Noise reduction device in radio receivers. 2,424,925; July 29.
- Conrad, Myrtle L., assignee, et al.: *See*—  
Conrad, Harold L.
- Conrad, Richard F., and J. H. Neis, St. Cloud, Minn. Mail-box support. 2,433,263; Dec. 23.
- Conroy, Charles L., Libertyville, Ill. Manufacture of an adaptor union. 2,417,350; Mar. 11.
- Consolidated Car Heating Company, Inc., assignee: *See*—  
Parson, Robert J.
- Consolidated Development and Improvements Corp., assignee: *See*—  
Yardeny, Michel N., and Bernas, and Prindle.
- Consolidated Edison Company of New York, assignee: *See*—  
Xenis, Constantine P., Pagano, and Bauman.
- Consolidated Engineering Corporation, assignee: *See*—  
Langmuir, Robert V.
- Lawlor, Reed C.
- Washburn, Harold W.
- Washburn, Harold W., and Hoskins.
- Wilcox, Doyle E.
- Consolidated Sewing Machine & Supply Co., Inc., assignee: *See*—  
Ingwer, Max.
- Consolidated Vultee Aircraft Corporation, assignee: *See*—  
Aldred, John L., Jr.
- Berger, Emric W.
- Flood, Edmund L.
- Klose, Alfred J.
- Livers, Carlos B.
- Minella, Andrew L., Jr.
- Odell, Albert C., Jr.
- Rubin, Charles F.
- Schmidt, Howard F.
- Scrymgeour, Harper D.
- Consolidated Water Power & Paper Company, assignee: *See*—  
Dickerman, Gilbert R., and Riley.
- Fisher, Harry C.
- Constant, Maurice, Reno, Nev. Apparatus for separating fine gold by screening and aqueous suspension. 2,428,146; Sept. 30.
- Constantinides, Willard B.: *See*—  
Crooke, Raymond E., and Constantinides.
- Consulting Engineering Co., assignee: *See*—  
Tutein, Joseph F.
- Container Corporation of America, assignee: *See*—  
Coleman, Charles J.
- Holy, Mitchell E.
- Lowey, Roy E., and Ferguson.
- Contant, Peter M., Maywood, N. J., and A. J. Fischer, Manhasset, and W. A. Kivell, Bronxville, assignors to The Dorr Company, New York, N. Y. Ionic exchange operations. 2,415,936; Feb. 18.
- Conterman, Fred A., assignor to Jamestown Metal Equipment Company, Inc., Jamestown, N. Y. Filtering device. 2,413,954; Jan. 7.
- Contesso, Mario, Astoria, Long Island, N. Y. Treating eggshells to produce a purified calcium carbonate. 2,419,822; Apr. 29.
- Conti, Eugene, Jackson Heights, N. Y., assignor to Herz Manufacturing Corporation. Machine for stacking drinking cups. 2,416,381; Feb. 25.
- Conti, Eugene, Jackson Heights, N. Y., assignor to Herz Manufacturing Corporation. Machine for forming drinking cups. 2,425,786; Aug. 19.
- Conti, John D., Philadelphia, Pa., assignor, by mesne assignments, to American Viscose Corporation, Wilmington, Del. Package of rolls of sheet material. 2,424,553; July 29.
- Continental Aviation & Engineering Corporation, assignee: *See*—  
Bigos, Walter and Vincent.
- Prescott, Ford L.
- Continental Can Company, Inc., assignee: *See*—  
Ardron, Gerald L.
- Ayars, Harry D.
- Coyle, John.
- Continental Can Company, Inc., assignee: *See*—  
Continued.
- Coyle, John, and Punte.
- Elser, William.
- Fink, Harry A.
- Fink, Henry A.
- Geist, William J.
- Goldsworthy, Norman H.
- Gray, Harry C.
- Helm, Herbert R.
- Hodgson, Jack E., and Abel.
- Kastel, Ferdinand.
- Koegh, Thomas P., and Fink.
- Maier, Curtis E.
- Mero, Ralph M.
- Michelot, Leonard.
- O'Brien, Frank J., Jr., and Gehrman.
- Pearson, Paul E.
- Pearson, Paul E., and Mero.
- Pearson, Paul E., and Treff.
- Pfeffer, Edward C., Jr., and de Beers, Jr.
- Rund, Paul R.
- Schmidt, John E.
- Scmitt, Otto A.
- Sedwick, Matthew M.
- Stevenson, Arthur E.
- Stevenson, Arthur E., and Schaub.
- Taylor, William J., Jr.
- Taylor, William J., and Coyle.
- Continental-Diamond Fibre Company, assignee: *See*—  
Howard, Leonard L.
- Continental Foods, Inc., assignee: *See*—  
Melnick, Daniel.
- Continental Gin Company, assignee: *See*—  
Benjamin, George W.
- Brooks, Eugene H.
- Deems, Frank E., and Smith.
- Smith, Algernon L.
- Continental, Incorporated, assignee: *See*—  
Fulton, Robert E., Jr.
- Continental Motors Corporation, assignee: *See*—  
Jackson, Thomas.
- Messner, Carlton.
- Continental Music Company, assignee: *See*—  
Gazlay, Paul M.
- Continental Oil Company, assignee: *See*—  
French, Richard W., Jr.
- Jones, William A.
- Kirk, Nels J., and Bottger.
- Lincoln, Bert H., and Byrkit.
- Lincoln, Bert H., and Hersh.
- Paxson, Frank M.
- Zurcher, Paul.
- Contner, J. Burgi, New York, N. Y. Camera view finder. 2,419,706; Apr. 29.
- Contrastano, Fedele, Syracuse, N. Y. Buttonhole gauge. 2,429,015; Oct. 14.
- Convenient Carrier Corporation, assignee: *See*—  
Bassichis, William M.
- Conveyor Company, The, assignee: *See*—  
Saxe, Walter E.
- Conway, Hugh G., Warrington, England, assignor to Aeronautical & Mechanical Investments Limited. Landing gear control and indicating arrangement. 2,420,066; May 6.
- Conzetti, Achille, Basel, and O. Schmid, Muttenez, near Basel, assignors to J. R. Geigy A. G., Basel, Switzerland. Chroming dyestuffs with ortho hydroxy carboxylic acid chromium complexes. 2,417,735; Mar. 18.
- Conzetti, Achille, and G. Schetty, Basel, and O. Schmid, Muttenez, assignors to J. R. Geigy, Basel, Switzerland. Chromable dyestuffs and making same. 2,428,866; Oct. 14.
- Cook, Arthur H.: *See*—  
Basford, Frederick R., Coates, Beilbron, and Cook.
- Cook, Arthur S., Outremont, and G. A. Grant, Montreal, Quebec, Canada, assignors, by mesne assignments, to Ayerst, McKenna & Harrison, Limited, New York, N. Y. Hormone extracts. 2,429,398; Oct. 21.
- Cook, Earle S., Wilkesburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Variable load brake. 2,418,013; Mar. 25.
- Cook Electric Company, assignee: *See*—  
Hasselhorn, Walter C.
- Hasselhorn, Walter C., and Schultz.
- Mahan, Louis F., Hasselhorn, and Ziebold.
- Cook, Elmer W., New York, N. Y., and E. O. Hook, Norwalk, Conn., assignors to American Cyanamid Company, New York, N. Y. Vulcanization accelerators for natural and synthetic rubber. 2,421,544; June 3.
- Cook, Elmer W., New York, N. Y., and P. H. Moss, Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparation of aminopropionitriles. 2,425,693; Aug. 12.
- Cook, Florence I., Seattle, Wash. Woman's garter. 2,433,262; Dec. 23.
- Cook, Frank C., executor: *See*—  
Wilcox, George D.
- Cook, Gerhard A., Snyder, N. Y., assignor to The Linde Air Products Company. Production of hydrogen peroxide. 2,416,156; Feb. 18.
- Cook, Irving L., Gillet, Wis. Paper envelope ash receiver. 2,432,656; Dec. 16.



- Cook, James, D. M. McSpadden, Charlotte, and W. L. Thornburg, Greensboro, N. C. Apparatus for controlling the movement of fabric through processing chambers. 2,431,372; Nov. 25.
- Cook, James F., Albany, assignor to Union Oil Company of California, Los Angeles, Calif. Lubricant. 2,421,543; June 3.
- Cook, James G., D. A. Harper, R. J. W. Reynolds, and W. F. Smith, Blackley, Manchester, England, assignors to Imperial Industries Limited. Sulfur vulcanization of unsaturated reaction products of diisocyanate with linear polyesters and linear polyester-amides and products resulting therefrom. 2,424,884; July 29.
- Cook, James G., Manchester, and R. C. Seymour, Birmingham, England, assignors to Imperial Chemical Industries Limited. Benzoyl peroxide treatment of reaction products of diisocyanates with linear polyesters. 2,431,921; Dec. 2.
- Cook, James M.: *See*—  
Salter, Shirley C., Lang, and Cook.
- Cook, James R., Woodbury, N. J. Wrench for bottle and jar tops. 2,414,635; Jan. 21.
- Cook, John, Ridgewood, N. J. Spooling. 2,424,021; July 15.
- Cook, John C., executor: *See*—  
Wilcox, George D.
- Cook, John F., assignor to Barber-Colman Company, Rockford, Ill. Closure operator control system. 2,424,385; July 22.
- Cook, John J., assignor to John J. Cook Manufacturing Corporation, Detroit, Mich. Antiskid device. 2,433,435; Dec. 30.
- Cook, John J., assignor to John J. Cook Manufacturing Company, Detroit, Mich. Antiskid device. 2,433,436; Dec. 30.
- Cook, John J., Manufacturing Company, assignee: *See*—  
Cook, John J.
- Cook, Judson A., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Adjustable inspector plate for dimension gaging and assorting machines. 2,422,291; June 17.
- Cook, Lawrence H., Menlo Park, assignor to Pacific Metals Company, Ltd., San Francisco, Calif. Heat transfer fin. 2,428,145; Sept. 30.
- Cook, Nathan B., Syracuse, N. Y. Poppet valve tool. 2,427,045; Sept. 9.
- Cook, Ralph H., Ferndale, Mich. Cooling system for transformers. 2,419,439; Apr. 22.
- Cook, Walter V., Collingswood, assignor to The Esterbrook Pen Company, Camden, N. J. Recording meter pen. 2,432,090; Dec. 9.
- Cook, Willard G.: *See*—  
Kenyon, Alonzo F., and Cook.
- Cook, Willard G., Wilkensburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control of electrolytic processes. 2,427,661; Sept. 23.
- Cook, Willard G., Wilkensburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system. 2,432,861; Dec. 16.
- Cooke, Ernest A., assignor to Taylor, Taylor & Hobson Limited, Leicester, England. Apparatus for generating involutes. 2,429,931; May 20.
- Cooke, Hereward L., Princeton, N. J., assignor to Aero Survey Corporation. Photographic map. 2,430,277; Nov. 4.
- Cooke, William A., assignee: *See*—  
Affleck, Theodore H.
- Coolahan, Robert A.: *See*—  
Anderson, Louis E., Jr., and Coolahan.
- Coolerator Company, The, assignee: *See*—  
Ganzer, John H.
- Cooley, Austin G., New York, N. Y., assignor to Times Facsimile Corporation. Slip-friction coupling. 2,421,925; June 10.
- Cooley, David N., Gary, Ind. Apparatus for connecting metallic strips. 2,426,670; Sept. 2.
- Cooley, Jake C., Drift, Ky. Portable mine conveyer. 2,428,513; Oct. 7.
- Coombs, Joseph H., Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa. Brake arrangement. 2,416,820; Mar. 4.
- Coombs, Arthur E.: *See*—  
McNairy, Jacob W., Rosenkrans, and Coombs.
- Coomes, Edward A., Cambridge, Mass., assignor, by mesne assignments, to the United States of America, as represented by the Secretary of War. Electron emitting cathode. 2,422,469; June 17.
- Coon, William B., assignor to Simpson Electric Company, Chicago, Ill. Electric switch. 2,414,191; Jan. 14.
- Coons, Burton C., assignor to Food Machinery Corporation, San Jose, Calif. Fruit pitting machine. 2,415,418; Feb. 11.
- Coons, Burton C., assignor to Food Machinery Corporation, San Jose, Calif. Fruit feeding and orienting apparatus. 2,429,991; Nov. 4.
- Coons, Burton C., assignor to Food Machinery Corporation, San Jose, Calif. Feeding device for fruit peeling machines. 2,431,310; Nov. 25.
- Cop, William L., Hawthorne, Calif. Universal drill jig. 2,430,915; Nov. 18.
- Cooper, Albert: *See*—  
Barnard, Roy M., and Cooper.  
Shelmerdine, Henry N., and Cooper.
- Cooper, Albert L., assignor to Holly Sugar Corporation, Colorado Springs, Colo. Beet jig with moving bed. 2,414,721; Jan. 21.
- Cooper, Alfred, Croydon, England, assignor to Rubatex Products, Inc., New York, N. Y. Single stage production of gas expanded. 2,421,831; June 10.
- Cooper, Artine, Auburn, Ind. Bust-contour pad. 2,429,308; Oct. 21.
- Cooper, Benjamin, Scotia, N. Y., assignor to General Electric Company. Electric valve system. 2,421,994; June 10.
- Cooper, Benjamin, Scotia, N. Y., assignor to General Electric Company. Electric control circuit. 2,421,995; June 10.
- Cooper, Benjamin, Scotia, N. Y., assignor to General Electric Company. Electric control circuit. 2,421,996; June 10.
- Cooper-Bessemer Corporation, assignee: *See*—  
Gehres, Hewitt A.
- Cooper, Charles G., Yuma, Ariz. Air conditioner. 2,427,714; Sept. 23.
- Cooper, Daniel W., Waltham Chase, England. Release link. 2,414,023; Jan. 7.
- Cooper, David P., assignor, by mesne assignments, to The Cold Metal Products Company, Youngstown, Ohio. Rotating annular hearth annealing furnace. 2,417,063; Mar. 11.
- Cooper, Dexter P., Jr.: *See*—  
Land, Edwin H., and Cooper.
- Cooper, Dexter P., Jr., Boston, Mass., assignor to Polaroid Corporation, Dover, Del. Forming hard resinous surfaces on organic plastics, and product thereof. 2,423,583; July 8.
- Cooper, Frank B., Evanston, Ill., assignor to Wyeth Incorporated, Philadelphia, Pa. Stabilized magma and making same. 2,414,024; Jan. 7.
- Cooper, Hugh S., Cleveland, assignor to Acme Aluminum Alloys, Inc., Dayton, Ohio. Metallurgical furnace and condenser. 2,429,668; Oct. 28.
- Cooper, James B.: *See*—  
Jepson, Alfred B., and Cooper.
- Cooper, James B., and A. B. Jepson, assignors to Boeing Aircraft Company, Seattle, Wash. Ratio attachment for pressure cabin controls. 2,419,707; Apr. 29.
- Cooper, Jesse E.: *See*—  
Peterson, John W., and Cooper.
- Cooper, Joseph T., Alhambra, Calif. Strip material. 2,418,758; Apr. 8.
- Cooper, Kenneth C., Portland, assignor to United Aircraft Corporation, East Hartford, Conn. Control for air spring pressures in free-piston units. 2,426,297; Aug. 26.
- Cooper, Leo, Stamford, Conn. Fish stringer. 2,427,715; Sept. 23.
- Cooper, Leo, Stamford, and R. S. Tait, Stepney Depot, Conn., assignors to P & K Incorporated. Fishing reel. 2,428,908; Oct. 14.
- Cooper, Lester, Milford, Conn., and H. Pfeumer, New Brunswick, N. J., assignors to Rubatex Products, Inc., New York, N. Y. Producing expanded rubber material. 2,420,815; May 20.
- Cooper, Melbourne J., Wichita Falls, Tex. Heat circulating device. 2,420,123; May 6.
- Cooper, Robert H., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Mixed disulfides and preparing the same. 2,415,627; Feb. 11.
- Cooper, Stanley M., assignor to The Fafnir Bearing Company, New Britain, Conn. Bearing seal. 2,419,885; Apr. 29.
- Cooper, William A.: *See*—  
MacDonald, William G., and Cooper.
- Cooper, William A., and W. G. Macdonald, assignors to William Cotton Limited, Loughborough, England. Welt turning mechanism in straight bar knitting machines. 2,428,514; Oct. 7.
- Cooper, William S., East Smethport, Pa. Portable planer. 2,431,230; Nov. 18.
- Coopersmith, Rudolph, assignor to American Bed and Spring Company, St. Louis, Mo. Sofa bed hinge. 2,429,260; Oct. 21.
- Coordes, Harry G., assignor to Briggs Manufacturing Company, Detroit, Mich. Lavatory. 2,413,811; Jan. 7.
- Coote, Jack H., assignor to British Tricolor Processes Limited, London, England. Production of three-color subtractive photographic images. 2,415,626; Feb. 11.
- Cope, George, Detroit, Mich., assignor to The American Paper Bottle Company, Toledo, Ohio. Container. 2,417,104; Mar. 11.
- Copeland, Peter, assignee: *See*—  
Nehrke, Charles.
- Copelin, Harry B.: *See*—  
Cass, Oliver W., and Copelin.
- Copeman Laboratories Company, assignee: *See*—  
Jennings, Harley Y.
- Jennings, Harley Y., Swezey, and Schouman.
- Copperweld Steel Company, assignee: *See*—  
Pyle, Ralph D.  
Selquist, Rolf.
- Coppock, Walter J.: *See*—  
Carter, Philip L., and Coppock.
- Coppock, Walter J., Ridley Park, assignor to Sun Oil Company, Philadelphia, Pa. Lubricant composition. 2,426,549; Aug. 26.



- Corbin, Fred A., Gary, and H. F. Netzhammer, Hobart, Ind. Apparatus for heating ingots. 2,420,357; May 13.
- Cordeau, Joseph A., Portland, Maine. Welded moccasin and making it. 2,420,466; May 13.
- Cordes, Charles P., Elizabeth, N. J. Percussion drum. 2,425,996; Aug. 19.
- Cordes, Charles P., Elizabeth, N. J. Percussion drum. 2,433,200; Dec. 23.
- Cordes, Robert W., assignee: *See*—  
Case, Jacob F.
- Cordier, David E., Toledo, Ohio, assignor, by mesne assignments, to Libbey-Owens-Ford Glass Company. Thermosetting urea-formaldehyde composition. 2,414,025; Jan. 7.
- Cordis, Nat, Bassett, Wis. Reciprocating conveyer dung remover. 2,416,469; Feb. 25.
- Corey, Clement P., and E. R. Deming, Millbury, Mass. Safety control device for disconnecting switches. 2,420,166; May 6.
- Corhart Refractories Company, assignee: *See*—  
Downs, William R.  
Field, Theodore E.
- Cork, Edward C., and A. D. Blumlein, deceased, Ealing, London, by D. Walker, executrix, Lescudjack, Penzance, Cornwall, assignors to Electric and Musical Industries Limited, Hayes, Middlesex, England. Variable impedance device. 2,425,084; Aug. 5.
- Cork, Gordon H.: *See*—  
Seyferth, Harold N., and Cork.
- Corke, Bernard A., assignor to Ronald Trist & Co. Limited, Slough, England. Feedwater regulator. 2,432,965; Dec. 16.
- Corlett, Webster D., Oak Park, Ill., assignor to Standard Screw Company, Hartford, Conn. Tappet. 2,426,083; Aug. 19.
- Corley, Harry H., Humboldt, Ariz. Coupling for electric wires. 2,418,164; Apr. 1.
- Corley, Richard S.: *See*—  
Blout, Elkan R., and Corley.
- Cormack, Ruth, Mrs., assignee, et al.: *See*—  
Timoney, Andrew J.
- Cormier, Alfred J., Bellflower, Calif. Water chest rack for a machine gun mount. 2,430,454; Nov. 11.
- Corn Products Refining Company, assignee: *See*—  
Stephenson, William E.
- Cornell, Hampton G., Baytown, Tex., assignor to Standard Oil Development Company. Vapor phase isomerization of normal paraffins. 2,423,846; July 15.
- Cornelius Aircraft Corporation, The, assignee: *See*—  
Cornelius, George W.
- Cornelius, Anders E. A. S., Stockholm, Sweden, assignor to Y. R. E. Cornelius, Portland, Oreg. Electric glass furnace. 2,417,913; Mar. 25.
- Cornelius, George W., Essex, Conn. Hydraulic power transmitting mechanism. 2,418,625; Apr. 8.
- Cornelius, George W., assignor to The Cornelius Aircraft Corporation, Dayton, Ohio. Tailless airplane. 2,417,189; Mar. 11.
- Cornelius, George W., assignor of one-half to E. H. Johnson, Dayton, Ohio. Control system for airplanes. 2,420,932; May 20.
- Cornelius, Richard T., Minneapolis, Minn. Switch. 2,418,068; Mar. 25.
- Cornelius, Richard T., Minneapolis, Minn. Single-phase motor starter circuit control. 2,425,459; Aug. 12.
- Cornelius, Richard T., Minneapolis, Minn. Method and apparatus for forming plastic radiator cores. 2,433,546; Dec. 30.
- Cornelius, Yngve R., Portland, Oreg. Heat-treating furnace. 2,416,908; Mar. 4.
- Cornelius, Yngve R. E., assignee: *See*—  
Cornelius, Anders E. A. S.
- Cornell, Elton S., Charlestown, N. H., assignor to Bryant Chucking Grinder Company, Springfield, Vt. Circular size gage. 2,432,384; Dec. 9.
- Cornell Machine Company, The, assignee: *See*—  
Cornell, Mead.
- Cornell, Mead, assignor to The Cornell Machine Company, Cleveland, Ohio. Plural stage cutter-roll mill for subdividing mucilaginous material. 2,414,855; Jan. 28.
- Cornell Research Foundation, Inc., assignee: *See*—  
Sharp, Paul F., Hand, and Guthrie.  
Summerville, Donald V., and Naulty.
- Corner-Bric Company, assignee: *See*—  
Piper, Harry K.
- Cornett, J. A., administrator: *See*—  
Boyd, William G.
- Corning Glass Works, assignee: *See*—  
Armistead, William H.  
Armistead, William H., Jr.  
Brown, Donald N.  
Dalton, Robert H.  
Guver, Edwin M.  
Hood, Harrison P.  
Hornbacher, Herbert G., and Lloyd.  
Hyde, James F.  
Johannson, Oscar K.  
McGregor, Rob R., and Warrick.  
Ward, John B.
- Cornish, Irving R.: *See*—  
Paxton, John W. and G. N., and Cornish.
- Cornu, Pierre L. C., Paris, France, assignor to International Standard Electric Corporation, New York, N. Y. Electrical signaling system. 2,424,554; July 20.
- Cornwell, Arthur L., Wellsville, N. Y. Pulling tool. 2,427,948; Sept. 23.
- Cornwell, Bishop C., New York, N. Y. Manufacture of vitamin A. 2,414,722; Jan. 21.
- Cornwell, Ralph E., La Canada, Calif. Hydraulic driving, braking, and free wheeling mechanism for vehicles. 2,421,013; May 27.
- Cornwell, Ralph T. K.: *See*—  
Reichel, Frank H., and Cornwell.
- Coronel, Maurits, Bangor, Wales. Jewel carrying tool and making the same. 2,421,926; June 10.
- Corput, Rex V. D.: *See*—  
Colton, Roger B., Corput, and Watson.
- Correo, Grace M., assignee, et al.: *See*—  
Roach, Edward.
- Corse, Joseph W.: *See*—  
Shonle, Horace A. and Corse.
- Corson, Bayard R., Newburyport, Mass., assignor to Hytron Corporation. Insulation in an electron tube. 2,429,954; Oct. 28.
- Corson, Ben B., Pittsburgh, and L. J. Brady, Ross Township, Allegheny County, Pa., assignors, by mesne assignments, to Koppers Company, Inc. Synthesis of ethylated aromatic compounds. 2,417,454; Mar. 18.
- Corson, G. & W. H., Inc., assignee: *See*—  
Minnick, Leonard J.
- Corwin, Thomas L., Newark, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Web controlled indicator. 2,418,464; Apr. 8.
- Cory Corporation, assignee: *See*—  
Alsdorf, James W.
- Cosby, James R.: *See*—  
Nelson, Dale H., and Cosby.
- Cosgro, Daniel J., Cohoes, N. Y. Apparatus for knitting scouring cloths. 2,423,484; July 8.
- Cosgrove, Frank D., San Francisco, Calif. Dough cutting and molding device. 2,431,789; Dec. 2.
- Cosmet Company, assignee: *See*—  
Krebs, Daniel D., and Lea.
- Coss, George R., Detroit, Mich., assignor to Eureka Williams Corporation. Coupling for suction cleaners. 2,420,866; May 20.
- Coss, George R., and K. M. Hammell, Detroit, Mich., assignors to Eureka Williams Corporation. Garbage grinder of the vertical axis rotary hammer type. 2,421,014; May 27.
- Coss, George R., St. Clair Shores, assignor to Flex-O-Tube Company, Detroit, Mich. Reusable type hose coupling. 2,433,602; Dec. 30.
- Costello, Bernard, Riverside, N. J. Antiseize composition. 2,424,224; July 22.
- Costello, Francis G., Los Angeles, Calif. Variable speed transmission device. 2,417,914; Mar. 25.
- Costelloe, Lauren J., Forest Grove, Oreg. Tractor mounted shovel loader attachment. 2,418,577; Apr. 8.
- Costin, William B., Monahans, Tex. Fishing tool for deep wells. 2,416,613; Feb. 25.
- Cosway, Richard, Penketh, England, assignor to Imperial Chemical Industries Limited. Sealed apparatus for degreasing and drying articles. 2,416,571; Feb. 25.
- Cotchett, Louis M.: *See*—  
Thoma, Meinard F., and Cotchett.
- Cote, John F., Dover, N. H. Semiautomatic riveting device. 2,415,811; Feb. 18.
- Cottingham, Willard R., Minneapolis, Minn. Doughnut forming device. 2,416,470; Feb. 25.
- Cotton, Lucy, Miami, Fla. Telephone dial attachment. 2,416,157; Feb. 18.
- Cotton, Robert B., Lansdowne, Pa. Glider pickup device. 2,432,508; Dec. 16.
- Cotton, Robert B., Lansdowne, Pa. Glider pickup device. 2,432,509; Dec. 16.
- Cotton, Robert B., Lansdowne, Pa., assignor to All American Aviation, Inc., Wilmington, Del. Simultaneous air pickup and delivery system. 2,433,437; Dec. 30.
- Cotton, William, Limited, assignee: *See*—  
Cooper, William A., and Macdonald.  
Lynam, John E.  
Lynam, John E., and McCarthy.  
Macdonald, William G.  
Macdonald, William G., and Cooper.  
Wilders, George, and Lynam.
- Cottrell, C. B., & Sons Company, assignee: *See*—  
Luehrs, Hans J.
- Cottrell, Frederick G., Washington, D. C., assignor to Wisconsin Alumni Research Foundation, Madison, Wis. Producing nitric oxide. 2,422,081; June 10.
- Cottrell, Herbert, Point Pleasant, N. J. Device for making rosettelike articles. 2,413,955; Jan. 7.
- Cottrell, Robert B., assignor to American Steel Foundries, Chicago, Ill. Car truck. 2,417,391; Mar. 11.
- Cottrell, Robert B., assignor to American Steel Foundries, Chicago, Ill. Journal arrangement. 2,418,398; Apr. 1.
- Cottrell, Robert B., assignor to American Steel Foundries, Chicago, Ill. Car truck. 2,420,229; May 6.
- Cottrell, Robert B., assignor to American Steel Foundries, Chicago, Ill. Spring plankless car truck. 2,429,399; Oct. 21.
- Cottrell, William P., Los Angeles, Calif. Gyrotory screen, rubber mounted spring support. 2,415,993; Feb. 18.
- C-O-Two Fire Equipment Company, assignee: *See*—  
Allen, Frank B.



- Couch, Glenn F., assignor to The Symington-Gould Corporation, Rochester, N. Y. Railway truck. 2,421,317; May 27.
- Couelle, Jacques, Marseille, France; vested in the Allen Property Custodian. Tubular structural elements. 2,413,690; Jan. 7.
- Couelle, Jacques, Marseilles, France; vested in the Allen Property Custodian. Building framework. 2,414,094; Jan. 14.
- Coulbourn, William C., Port Washington, assignor to The Norden Laboratories Corporation, New York, N. Y. Altitude control for aircraft. 2,432,862; Dec. 16.
- Coulson, Charles C., Mobile, Ala. Motor-compressor unit. 2,420,124; May 6.
- Coulthard, Charles E., W. F. Skort, and R. Michaelis, Nottingham, assignors to Therapeutic Research Corporation of Great Britain Limited, London, England. Bacteriostatic substances. 2,416,821; Mar. 4.
- Counterman, Lewis B., Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Explosive cartridge unit. 2,425,176; Aug. 5.
- Courney, Earl C., Cleveland, Ohio. Vertically adjustable bridge mounting for bifocal lenses. 2,428,961; Oct. 14.
- Courson, Ula L., Remerton, Ga. Wind and water motor. 2,428,515; Oct. 7.
- Court, Frank T., assignor to Deere & Company, Moline, Ill. Releasable power-operated tractor and trailing plw connections. 2,422,530; June 17.
- Court, Frank T., assignor to Deere & Company, Moline, Ill. Power lift of the hydraulic type. 2,423,485; July 8.
- Court, Frank T., deceased, by V. F. Court, executrix, assignor to Deere & Company, Moline, Ill. Wheel with axially adjustable rim. 2,432,385; Dec. 9.
- Court, Virginia F., executrix: *See*—Court, Frank T.
- Courtaulds Limited, assignee: *See*—Boulton, John.
- Cameron, Walter G., and Morton. Hall, Ronald Bertram. MacGregor, James H. Tallis, Ernest E. Whittaker, Croyden M., Thomas, Wilcock, and Tattersfield.
- Courtney, Edward J., Oaklyn, N. J. Spinning frame drawing roll. 2,415,578; Feb. 11.
- Courtney, Edward J., Oaklyn, N. J. Spinning roll for spinning and drawing frames. 2,417,239; Mar. 11.
- Courtney, Wilbur E., Philadelphia, Pa., assignor to Kaiser Fleetwings, Inc. Deforming sheet material on predetermined spaced lines. 2,426,260; Aug. 26.
- Couse, Kibbey W., Newark, N. J. Drive wheel and traction belt for road vehicles. 2,426,342; Aug. 26.
- Couzen, Frank D.: *See*—Anderson, Frederick, and Couzen.
- Covel Mfg. Co., assignee: *See*—Erikson, Gustaf, and Filstrup.
- Coventry Gauge & Tool Company Limited, assignee: *See*—Wainwright, John E.
- Cover, Martin L., Allen Park, Mich., assignor to National Steel Corporation. Swinging spout for sintering machines. 2,422,470; June 17.
- Coverley, Robert H., and D. D. Arnott, Gloucester, England, assignors to Rotol Limited. Cylinder construction. 2,424,800; July 29.
- Covington, James D., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Hydrofluoric acid resistant packing material. 2,417,351; Mar. 11.
- Cowan, Irma M., Chicago, Ill. Safety pouch. 2,421,055; May 27.
- Cowan, John C., Peoria, Ill., and D. H. Wheeler, Minneapolis, Minn., assignors to United States of America, as represented by the Secretary of Agriculture. Making linear superpolyesters. 2,429,219; Oct. 21.
- Cowell, Joseph, Brooklyn, N. Y. Flint lighter for gas stoves. 2,431,168; Nov. 18.
- Cowen, Fred G.: *See*—Pitre, Antonio S., Cowen, and Pouget.
- Cowles Company, The, assignee: *See*—Cowles, Edwin.
- Cowles, Edwin, Cayuga, N. Y., assignor to The Cowles Company, Princeton, N. J. Impact mill with centrifugal separation. 2,414,361; Jan. 14.
- Cowles, Edwin, Cayuga, N. Y., assignor to The Cowles Company, Princeton, N. J. Method and apparatus for defibering paper stock. 2,418,547; Apr. 8.
- Cowles, Edwin, Cayuga, N. Y., assignor to The Cowles Company, Princeton, N. J. Apparatus for disseminating materials in liquids. 2,424,679; July 29.
- Cowles, Edwin, Cayuga, N. Y., assignor to The Cowles Company, Princeton, N. J. Hydrating paper stock. 2,426,923; Sept. 2.
- Cowles, Irving, Detroit, Mich., assignor of seventy per cent to himself and thirty per cent to Rudolph W. Lotz, Chicago, Ill. Metallic conduit and coupling therefor. 2,427,260; Sept. 9.
- Cox, Andrew S., Little Rock, Ark. Leg rest. 2,414,856; Jan. 28.
- Cox, Arthur, assignor to Taylor, Taylor & Hobson Limited, Leicester, England. Optical objectives. 2,417,736; Mar. 18.
- Cox, Arthur, assignor to Taylor, Taylor & Hobson Limited, Leicester, England. Optical objective of the telephoto type. 2,421,927; June 10.
- Cox, Arthur, assignor to Taylor, Taylor & Hobson Limited, Leicester, England. Telephoto optical objective. 2,433,438; Dec. 30.
- Cox, Charles E., Wayzata, Minn., assignor to International Business Machines Corporation, New York, N. Y. Motor-driven punch. 2,427,387; Sept. 16.
- Cox, Claude E., Detroit, Mich. Flowmeter. 2,417,352; Mar. 11.
- Cox, Edward F., and J. S. Domingos, New Bedford, Mass. Pump. 2,418,699; Apr. 8.
- Cox, Fred W., Cuyahoga Falls, assignor to Wingfoot Corporation, Akron, Ohio. Copolymers of alkyl aconitates and vinyl chloride. 2,419,122; Apr. 15.
- Cox, Fred W., Cuyahoga Falls, assignor to Wingfoot Corporation, Akron, Ohio. Polyvinyl acetal compositions. 2,432,471; Dec. 9.
- Cox, George C., Charleston, W. Va. Rust-inhibiting coating composition. 2,417,064; Mar. 11.
- Cox, George W., Floral Park, N. Y., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Railway car side wall. 2,431,987; Dec. 2.
- Cox, Harold E., Dollis Hill, and T. W. Wilcox, Harrow, England, assignors to General Electric Company. Electric circuit breaker. 2,427,195; Sept. 9.
- Cox, Harold L., assignee, et al.: *See*—Gregoire, Resta S.
- Cox, Irvin W., West Allis, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Flexible, rubber-like jacket for liquid cooling of glass tubes. 2,425,599; Aug. 12.
- Cox, Irvin W., West Allis, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Making metal molding material. 2,425,919; Aug. 19.
- Cox, Ivan, Paoli, Ind. Mail box. 2,420,699; May 20.
- Cox, John W., and A. S. Behrman, Chicago, Ill., assignors to Inflico Incorporated. Regeneration of anion exchange materials and recovery of acids. 2,414,026; Jan. 7.
- Cox, Joseph H., Pittsburgh, D. L. Hopper, Wilkinsburg, and A. P. Colaiaco, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. High-speed high-pressure vacuum pump. 2,432,226; Dec. 9.
- Cox, Paul F., Los Angeles, Calif. Single-acting flat-bed web perfecting printing press. 2,425,920; Aug. 19.
- Cox, Ralph E., Schenectady, N. Y., assignor to General Electric Company. Work handling apparatus. 2,417,678; Mar. 18.
- Cox, Richard F. B., assignor to Hercules Powder Company, Wilmington, Del. Terpene ethers. 2,417,455; Mar. 18.
- Cox, Roy T., Marion, Ind. Bottle carrier. 2,427,838; Sept. 23.
- Cox, Thomas K., Randallstown, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Bonding of vulcanizable compositions to metallic surfaces. 2,427,196; Sept. 9.
- Cox, Thomas K., Randallstown, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Bonding of rubber and rubberlike compositions. 2,427,197; Sept. 9.
- Coykendall, John C., Bridgeport, Conn., assignor to General Electric Company. Frequency divider. 2,413,956; Jan. 7.
- Coykendall, John C., Bridgeport, Conn., assignor to General Electric Company. Frequency dividing apparatus. 2,416,158; Feb. 18.
- Coykendall, John C., Bridgeport, Conn., assignor to General Electric Company. Pulse relay testing system. 2,425,600; Aug. 12.
- Coykendall, Leon H., Westfield, and W. H. Rowand, Madison, assignors to The Babcock & Wilcox Company, Rockleigh, N. J. Fluid circulating heat exchanger. 2,420,655; May 20.
- Coyle, John: *See*—Taylor, William J., and Coyle.
- Coyle, John, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y. Apparatus for forming end closures in paper containers. 2,423,965; July 15.
- Coyle, John, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y. Collar can collar mounting. 2,423,966; July 15.
- Coyle, John, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y. Beverage can. 2,426,550; Aug. 26.
- Coyle, John, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y. Method of and apparatus for flanging cans. 2,432,658; Dec. 16.
- Coyle, John, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y. Reclosable container with ripping opener. 2,433,683; Dec. 30.
- Coyle, John, Baltimore, Md., and W. F. Punte, Passaic, N. J., assignors to Continental Can Company, Inc., New York, N. Y. Collar mounting for tear-strip cans. 2,423,685; July 8.
- Coyle, John, Baltimore, Md., and W. F. Punte, Passaic, N. J., assignors to Continental Can Company, Inc., New York, N. Y. Collar can collar and mounting same. 2,433,031; Dec. 23.
- Cozza, John, Brooklyn, N. Y., assignor, by mesne assignments, to American Viscose Corporation, Wilmington, Del. Heat-sealing element. 2,421,373; June 3.



- Cozzoli, Frank J., Plainfield, N. J. Filling machine. 2,415,419; Feb. 11.
- Cozzoli, Frank J., Plainfield, N. J. Conveyor frame structure. 2,417,633; Mar. 18.
- Cozzoli, Frank J., Plainfield, N. J. Dripless tray for ampule washing. 2,417,634; Mar. 18.
- Cozzoli, Frank J., Plainfield, N. J. Automatic machine for washing containers. 2,431,988; Dec. 2.
- Crabbe, Lindsay T., Chicago, Ill., and D. C. Lathrop, Los Angeles, Calif., assignors to Phoenix Metal Cap Company, Chicago, Ill. Closure cap for bottles, jars, and the like. 2,423,295; July 1.
- Crabbe, Lindsay T., Chicago, Ill., and D. C. Lathrop, Los Angeles, Calif., assignors to Phoenix Metal Cap Company, Chicago, Ill. Closure means for containers. 2,424,801; July 29.
- Crabbs, Herbert J.: *See*—  
Wallace, James M., and Crabbs.
- Crabbs, Herbert J., Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation. Circuit interrupter. Re. 22,853; Mar. 18.
- Crabtree, J. A., & Co., Ltd., assignee: *See*—  
Hill, Walter E., and Wintle.
- Crabtree, John I., and G. T. Eaton, assignors to Eastman Kodak Company, Rochester, N. Y. Procedure for fixing nongelatin emulsions and improved nongelatin emulsion fixing baths. 2,425,363; Aug. 12.
- Cracraft, Clarence A., Peabody, Kans. Stabilizer for motor-driven vehicles. 2,425,787; Aug. 19.
- Crader, William J.: *See*—  
Sargent, Frederick L., and Crader.
- Craft, Homer J., assignee: *See*—  
Jury, Edward J.
- Crafts, Curtis S., Oak Park, and W. M. Pollock, Glen Ellyn, assignors to The Goss Printing Press Company, Chicago, Ill. Torsionally operable plate clamp. 2,428,263; Sept. 30.
- Craftsman Line-Up Table Corporation, assignee: *See*—  
Dodge, Floyd L.
- Craggs, John D.: *See*—  
Haine, Michael E., Meek, and Craggs.
- Cragin, Inez L., assignee: *See*—  
Richards, John J.
- Craib, James F., Little Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Radiated signal direction finder. 2,431,989; Dec. 2.
- Craib, James F., Flushing, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc. Cathode-ray device for indicating the axis of a symmetrical signal. 2,431,990; Dec. 2.
- Craig Bit Company, Limited, The, assignee: *See*—  
Craig, Robert.
- Craig, Burnie M., Pasadena, and G. M. Giannini, West Los Angeles, Calif., assignors to Autoflight Corporation, South Norwalk, Conn. Telemetering system. 2,414,508; Jan. 21.
- Craig, David, Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Purification of butadiene by extractive distillation with nitroparaffin solvents. 2,419,335; Apr. 22.
- Craig, David, Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Distillation of volatile monomeric materials from aqueous polymer dispersions while reducing foam formation by the presence of a water-soluble weak inorganic acid. 2,432,386; Dec. 9.
- Craig, James, assignee: *See*—  
Craig, Tedi B.  
Stumpf, Tedi.
- Craig, James A., Fishkill, N. Y., assignor to J. Hoehne, Danbury, Conn., and M. Craig, Fishkill, N. Y. Expanding hose reel. 2,426,984; Sept. 9.
- Craig, John W., assignor to The Crosley Corporation, Cincinnati, Ohio. Pumping system. 2,415,060; Jan. 28.
- Craig, Palmer H., Gainesville, Fla., and L. C. Herman, Emporium, Pa., assignors, by mesne assignments, to Invox Inc. Photoelectric apparatus. 2,414,636; Jan. 21.
- Craig, Robert, assignor to The Craig Bit Company, Limited, North Bay, Ontario, Canada. Lathe for turning drill shanks. 2,423,376; July 1.
- Craig, Roderick, and R. Q. Boyer, Berkeley, Calif. Torsion balance. 2,417,392; Mar. 11.
- Craig, Tedi B.: *See*—  
Stumpf, Tedi.
- Craig, Tedi B., assignor of one-half to J. Craig, Los Angeles, Calif. Garment. 2,431,466; Nov. 25.
- Craig, W. E.: *See*—  
Hester, William F., and Craig.
- Craig, William L., Westport, Conn., assignor to R. T. Vanderbilt Company, Inc., New York, N. Y. Mixtures of titanium dioxide and calcium-starch-metaborate as pigments (in paper and in paint). 2,425,058; Aug. 5.
- Crake, Wilfred S., Houston, Tex., assignor to Shell Development Company, San Francisco, Calif. Core barrel. 2,421,997; June 10.
- Cramer, Francis B.: *See*—  
Charch, William H., and Cramer.
- Cramer, Paul L.: *See*—  
Mulligan, Maurice J., and Cramer.
- Cramer, Richard D., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of oxo carbonyl compounds. 2,432,287; Dec. 9.
- Cramer, Stanley S., Haddon Heights, N. J. Solenoid type of electromagnet. Re. 22,902; July 29.
- Cramer, William F., Jr.: *See*—  
Bauerlein, Carl C., and Cramer.
- Crandall, George S.: *See*—  
Berger, Henry G., Crandall, and Socolofsky.
- Crandall, George S., Woodbury, and C. H. Schlesman, Camden, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Process of polymerizing. 2,425,671; Aug. 12.
- Crandell, Ervin L.: *See*—  
Reifel, Harry, and Crandell.
- Crane, Carl J., U. S. Army, Sacramento, Calif. Efficiency measuring device. 2,420,656; May 20.
- Crane, Charles R., II, Chicago, and A. Mueller, Berwyn, assignors to Crane Co., Chicago, Ill. Valve actuating mechanism. 2,417,353; Mar. 11.
- Crane Co., assignee: *See*—  
Bassett, Charles H., and De Craene.  
Carr, Edward W., and Peterson.  
Crane, Charles R., II, and Mueller.  
Fawkes, Donald G.  
Fennema, Richard.  
Fennema, Richard, and Cantalupo.  
Gleeson, Murray A.  
Magos, John P.  
Patrick, John A.  
Rosenston, David, and Yant.  
Uphues, Frank P.
- Crane Packing Company, assignee: *See*—  
Gould, Harold W.  
Payne, Frank E.  
Roshong, Raymond G.  
Snyder, Russel D.  
Snyder, Russel D., and Coleman, and Schmitz.
- Crane, Walton B., Beverly Hills, assignor to Allied Plastics Company, Los Angeles, Calif. Handbag. 2,416,822; Mar. 4.
- Crane, Walton B., West Los Angeles, assignor to Allied Plastics Company, Los Angeles, Calif. Clasp for plastic cases. 2,418,578; Apr. 8.
- Crank, Virgil C., Houston, Tex. Saw clamp. 2,428,556; Oct. 7.
- Cranston Print Works Company, assignee: *See*—  
Jones, Albert S., and Stackpole.
- Cranwell, Henry W., Seymour, Conn. Axle attachment for detecting hot boxes. 2,418,579; Apr. 8.
- Crary, Jay D., assignor to Paper Strap, Inc., Portland, Oreg. Corner fastening means for paperboard boxes, cartons, and the like. 2,419,391; Apr. 22.
- Crater, Wilbur D., Peabody, Mass., assignor to General Electric Company. Pipe coupling. 2,424,436; July 22.
- Crater, Willard D., Jr.: *See*—  
Warner, Arthur J., and Crater.
- Crawford, Alfred R., assignor to Ferracut Machine Company, Bridgeport, N. J. Press. 2,429,669; Oct. 28.
- Crawford, Bruce D., Greenwich, and D. W. Jayne, Jr., Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Froth flotation of phosphate ore. 2,416,909; Mar. 4.
- Crawford, Cecil: *See*—  
Crawford, Herman E., and C.
- Crawford, Chester C.: *See*—  
McAllister, Sumner H., and Crawford.  
McAllister, Sumner H., Crawford, and Ross.
- Crawford, Chester C., El Cerrito, W. E. Ross, Berkeley, and S. H. McAllister, Lafayette, assignors to Shell Development Company, San Francisco, Calif. The production of neohexane involving catalytic isomerization. 2,413,691; Jan. 7.
- Crawford, Duncan J.: *See*—  
Wegst, Walter F., Bacon, Vaughn, and Crawford.
- Crawford, Francis W., Bartlesville, Okla., assignor to Phillips Petroleum Company. Analyzing gas. 2,427,261; Sept. 9.
- Crawford, Frederick G., and E. A. Stroschein, Oshkosh, Wis., assignors to The Rudolph Wurlitzer Company, Chicago, Ill. Automatic volume control. 2,420,933; May 20.
- Crawford, Herman E., Kernersville, and C. Crawford, Durham, N. C. Knitting machine and method. 2,420,771; May 20.
- Crawford, James R., Clinton, S. C. Tractor-mounted power-driven sawing machine. 2,432,726; Dec. 16.
- Crawford, John W. C.: *See*—  
Chapman, James, and Crawford.
- Crawford, Isaac D., Creede, Colo. Drill puller. 2,416,288; Feb. 25.
- Crawford, Marie T.: *See*—  
Richards, Harvey B., and Crawford.
- Crawford, Maynard C., Los Angeles, Calif. Door pull and stop. 2,430,974; Nov. 18.
- Crawford, Richard A.: *See*—  
Dasher, Paul J., Crawford, and Colley.
- Crawford, Robert B. P., Miami, Fla. Chemical dehumidifying method and means. 2,433,741; Dec. 30.
- Crawford, Thomas D., Wichita Falls, Tex. Screw driver. 2,423,296; July 1.
- Crawford, William E., Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Weight calculator for vertical balancing. 2,424,877; July 29.



- Crawshaw, John, assignor to one-half to B. Johnsen, New York, N. Y. Collapsible fiberboard container. 2,421,453; June 3.
- Cread Engineering and Research Company, assignee: *See*—Gillman, Wilbert M. Larson, Arvid N. Patnaude, Frank.
- Creamer, Harry H., Minneapolis, Minn. Luggage carrier. 2,423,297; July 1.
- Crecelius, Samuel B.: *See*—Rheineck, Alfred E., and Crecelius.
- Creed and Company Limited, assignee: *See*—Drewell, William B. Thompson, Alfred E.
- Creedy, Frederick, Toronto, Ontario, Canada, assignor to Sangamo Electric Company, Springfield, Ill. Machine for changing the frequency of alternating currents. 2,428,203; Sept. 30.
- Creighton, Philip E., assignor to Eastman Kodak Company, Rochester, N. Y. Lenses for cinematography. 2,432,387; Dec. 9.
- Crepeau, Daniel H.: *See*—Schott, Donald E., and Crepeau.
- Crepeau, Ernest A., Haverhill, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for applying sole edge covers to platform shoes. 2,415,084; Feb. 4.
- Crepeau, Ernest A., Haverhill, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for applying sole edge covers to platform shoes. 2,415,085; Feb. 4.
- Crepeau, Ernest A., Haverhill, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Midsole for platform shoes. 2,426,671; Sept. 2.
- Creson, William K., and E. C. Knight, assignors to Ross Gear & Tool Company, Lafayette, Ind. Power steering gear. 2,433,651; Dec. 30.
- Cress, Howard S., Duluth, Minn., assignor to The American Steel and Wire Company of New Jersey. Oil burner. 2,419,336; Apr. 22.
- Crever, Frederick E., Scotia, N. Y., assignor to General Electric Company. Self-excited synchronous dynamo-electric machine. 2,414,287; Jan. 14.
- Crever, Frederick E., Scotia, N. Y., assignor to General Electric Company. Polyphase speed synchronizing system for a plurality of rotating machines. 2,419,058; Apr. 15.
- Crew, Charles W.: *See*—Frisch, Wayne R., and Crew.
- Crew, Ruth A., administratrix: *See*—Frisch, Wayne R., and Crew.
- Crews, Don E., assignor to Sam'l Bingham's Son Mfg. Co., Chicago, Ill. Printer's roller. 2,429,670; Oct. 28.
- Crimmins, William C., assignor to Delta Electric Company, Marion, Ind. Flashlight. 2,418,759; Apr. 8.
- Crimmins, William C., assignor to Delta Electric Company, Marion, Ind. Flashlight. 2,420,585; May 13.
- Crimora Research and Development Corporation, assignee: *See*—Koster, John.
- Criner, Harry E.: *See*—Baudry, Rene A., and Criner. McCann, Gilbert B., Jr., and Criner.
- Criner, Harry E., and B. A. Rose, Forest Hills, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Rotor-slot ventilation for dynamo-electric machines. 2,425,997; Aug. 19.
- Criner, Harry J., assignor of one-half to A. G. Bush, Davenport, Iowa. Plural rotary cutter bread slicing machine. 2,414,857; Jan. 28.
- Criner, Harry J., assignor of one-half to A. G. Bush, Davenport, Iowa. Reciprocating endless band knife bread-slicing machine. 2,430,160; Nov. 4.
- Crise Electric Manufacturing Company, assignee: *See*—Crise, George W.
- Crise, George W., Columbus, Ohio. Latch-type thermostatically controlled regulator. 2,429,400; Oct. 21.
- Crise, George W., Columbus, Ohio. Air conditioning system for motor vehicles. 2,430,759; Nov. 11.
- Crise, George W., assignor to Crise Manufacturing Company, Columbus, Ohio. Thermostat control mechanism for heating systems. 2,425,998; Aug. 19.
- Crise, George W., assignor to Crise Electric Manufacturing Company, Columbus, Ohio. Hydraulic lifting apparatus. 2,430,758; Nov. 11.
- Crise Manufacturing Company, assignee: *See*—Crise, George W.
- Crisler, Homer D., Greensboro, N. C. Sounding mechanism for toy guns and the like. 2,418,399; Apr. 1.
- Crispell, Loren N., Kingston, Pa. Deflatable and retractable wing pontoon or float. 2,429,992; Nov. 4.
- Crist, James J., Rockford, Ill. Key guard. 2,420,125; May 6.
- Criswell, Carmer, assignor to General Motors Corporation, Detroit, Mich. Balancing means for rotatable elements. 2,432,659; Dec. 16.
- Crites, Joe, Evanston, Ill., assignor to Combustion Engineering Company, Inc., New York, N. Y. System for regulating the density of air-fuel mixture supplied by air-swept pulverizing mills. 2,427,903; Sept. 23.
- Crittenden, Eugene D., Petersburg, Va., assignor to The Solvay Process Company, New York, N. Y. Ammoniating acid phosphates. 2,415,464; Feb. 11.
- Crittenden, Philip L., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Compressor valve. 2,431,733; Dec. 2.
- Crockett, Percival B., assignor to The Sentry Company, Foxboro, Mass. Furnace. 2,421,482; June 3.
- Crockett, Samuel J., Quinwood, W. Va. Lighting system for automobiles or the like. 2,414,932; Jan. 28.
- Crockett, Thomas E., Tulsa, Okla. Device for holding objects to be copied or photographed. 2,425,921; Aug. 19.
- Croft, Cyril M., and W. H. Hindle, Cumberland, Md., assignors to Celanese Corporation of America. Coloration of textile materials containing organic derivative of cellulose with leuco sulfuric esters of vat dyestuffs. 2,428,833; Oct. 14.
- Croft, Cyril M., and W. H. Hindle, Cumberland, Md., assignors to Celanese Corporation of America. Dyeing of cellulose acetate fabrics with direct dyeing dyestuffs, lower aliphatic alcohols, and lower aliphatic acids. 2,428,834; Oct. 14.
- Croft, Cyril M., and W. H. Hindle, Cumberland, Md., assignors to Celanese Corporation of America. Dyeing of fabrics comprising cellulose acetate with an alcohol-thiocyanate swelling mixture. 2,428,835; Oct. 14.
- Croft, Cyril M., and W. H. Hindle, Cumberland, Md., assignors to Celanese Corporation of America. Printing of cellulose acetate fabrics with acid dyes. 2,428,836; Oct. 14.
- Crom, John M., Washington, D. C. Concrete wall under compression provided with an opening. 2,417,190; Mar. 11.
- Crom, John M., Washington, D. C. Constructing tile lined tanks. 2,418,580; Apr. 8.
- Crom, John M., Washington, D. C. Flexible sealing joint. 2,433,652; Dec. 30.
- Cromer, Harold W.: *See*—Long, Kenneth E., and Cromer.
- Crompton, Benjamin, Pawtucket, R. I., assignor to The Clark Thread Company. Method and apparatus for making zipper tape. 2,423,298; July 1.
- Crompton & Knowles Loom Works, assignee: *See*—Bergstrom, Carl P., and Herard. Bergstrom, Carl P., and Schedin. Blanchard, William A. Darwin, Clifford. Dion, Raymond F. Hooper, Leslie J., and Peterson. Hooper, Leslie J., and Sepavich. Keenan, Charles B. Kronoff, Clarence R. Kronoff, Clarence R., and Herard. Krukonis, Alexander C. Payne, Oscar V. Schedin, Robert S. Sepavich, Victor F. Sepavich, Victor F., and Manog. Turner, Richard G. Utter, Gustaf H. Whitin, Herbert A. Wing, Harold R.
- Croname, Incorporated, assignee: *See*—Smith, Elmo E.
- Croney, William B., assignee: *See*—Schara, Earl M.
- Cronrath, Paul, Spokane, Wash. Trundle truck. 2,430,107; Nov. 4.
- Cronstedt, Val, Marlboro, assignor to United Aircraft Corporation, East Hartford, Conn. Balancing a turbine rotor. 2,421,832; June 10.
- Cronstedt, Val, Marlboro, assignor to United Aircraft Corporation, East Hartford, Conn. Turbine construction. 2,425,177; Aug. 5.
- Cronstedt, Val, Marlboro, and W. A. Ledwith, Hartford, assignors to United Aircraft Corporation, East Hartford, Conn. Turbine construction. 2,421,833; June 10.
- Cronvall, Lars P., Stockholm, Sweden, assignor to International Standard Electric Corporation, New York, N. Y. Battery charging system. 2,431,311; Nov. 25.
- Cronvall, Lars P., Stockholm, Sweden, assignor to International Standard Electric Corporation, New York, N. Y. Battery charging control system. 2,431,312; Nov. 25.
- Crook, Louis H., Washington, D. C. Electron tube. 2,428,013; Sept. 30.
- Crook, Louis H., Washington, D. C., and W. R. Custer, Hagerstown, Md. Boundary layer remover for airplanes. 2,428,737; Oct. 7.
- Crook, William M., assignor to Reed Roller Bit Company, Houston, Tex. Bonding a liner within a bore. 2,424,878; July 29.
- Crooke, Raymond E.: *See*—Willard, Waldo W., and Crooke.
- Crooke, Raymond E., New York, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Apparatus for gun fire control. 2,419,886; Apr. 29.
- Crooke, Raymond E., and W. B. Constantines, Great Neck, assignors to Ford Instrument Company, Inc., Long Island City, N. Y. Computer for ordnance data. 2,430,108; Nov. 4.
- Crooks, Harry M., Jr., assignor to Parke, Davis & Company, Detroit, Mich. Reaction products of S-benzyl penicillamines and G-penaldates and making same. 2,430,455; Nov. 11.



- Crooks, Ralph K., O'Hara Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Carrier current telephone apparatus. 2,432,560; Dec. 16.
- Crosby, David R., Haddonfield, N. J., assignor to Radio Corporation of America. Radio frequency transmission line. 2,416,981; Mar. 4.
- Crosby, George A., Park Ridge, and A. I. Ericsson, assignors to Signode Steel Strapping Company, Chicago, Ill. Package-binding tool support. 2,416,910; Mar. 4.
- Crosby, Howard M., Schenectady, N. Y., assignor to General Electric Company. Signal portraying apparatus. 2,425,999; Aug. 19.
- Crosby, Lawrence E., assignor to Bendix Aviation Corporation, South Bend, Ind. Transfer apparatus. 2,420,867; May 20.
- Crosby, Lawrence E., and C. W. Trautman, assignors to Bendix Aviation Corporation, South Bend, Ind. Fluid flow measuring apparatus. 2,414,582; Jan. 21.
- Crosby, Melvin A.; See—  
Luaces, Enrique L., and Crosby.
- Crosby, Melvin A., assignor to The Dayton Rubber Manufacturing Company, Dayton, Ohio. Wire covered belt. 2,423,138; July 1.
- Crosby, Melvin A., Dayton, Ohio, assignor to The Dayton Rubber Company. Woven wire tube covered belt. 2,429,993; Nov. 4.
- Crosby, Melvin A., Dayton, Ohio, assignor to The Dayton Rubber Company. Wire covered molded cog belt. 2,429,994; Nov. 4.
- Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Transceiver system. 2,416,794; Mar. 4.
- Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Phase or amplitude modulation receiver. 2,416,795; Mar. 4.
- Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Carrier-exalted receiver. 2,416,911; Mar. 4.
- Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Phase modulation receiver. 2,420,230; May 6.
- Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Diversity combining circuit. 2,420,868; May 20.
- Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Reactance control circuit. 2,422,082; June 10.
- Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Frequency modulation receiver. 2,422,083; June 10.
- Crosby, Murray G., Riverhead, assignor to Press Wireless, Inc., New York, N. Y. Automatic tuning control and indication for frequency shift systems. 2,423,229; July 1.
- Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Frequency discriminator circuit. 2,425,922; Aug. 19.
- Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Frequency divider and discriminator circuit. 2,425,923; Aug. 19.
- Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Phase modulation detector. 2,425,924; Aug. 19.
- Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Frequency discriminator circuits. 2,428,264; Sept. 30.
- Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Frequency modulation receiving system. 2,428,265; Sept. 30.
- Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Combined frequency divider and detector. 2,429,747; Oct. 28.
- Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Amplitude modulation adapter system. 2,433,093; Dec. 23.
- Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Aeronautic positioning device. 2,433,344; Dec. 30.
- Crosby, Stephen A., Chicago, Ill., assignor to Sterling Tool Products Company. Lubricating system for portable rubbing machines. 2,417,469; Mar. 18.
- Crosby, Stephen A., assignor, by mesne assignments, to Speed Products Co., Inc., New York, N. Y. Stapling machine. 2,424,649; July 29.
- Crosby, Stephen A., Chicago, Ill., assignor to Sterling Tool Products Company. Extension handle for rubbing machines. 2,428,204; Sept. 30.
- Crosby, Welton L., Phoenix, Ariz. Tool for removing connectors from treads. 2,417,456; Mar. 18.
- Crosley Corporation, The, assignee: See—  
Craig, John W.  
Konkle, Philip J.
- Crosley, Powell, III, Coral Gables, Fla. Making laminated structures. 2,417,586; Mar. 18.
- Crosley, Powell, III, Coral Gables, Fla. Method and apparatus for fabricating articles. 2,419,765; Apr. 29.
- Crosman, Loring P., South Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Partial product structure. 2,414,027; Jan. 7.
- Cross, Bert S., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Leather burnishing and plating. 2,416,289; Feb. 25.
- Cross, Carroll N., and G. E. Nichols, Middleboro, Mass. Picture frame with support. 2,419,823; Apr. 29.
- Cross, Garrett P. S., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Center for copying lathes. 2,415,465; Feb. 11.
- Cross, Ralph E., Grosse Pointe, Mich. Machine for chamfering gears. 2,433,201; Dec. 23.
- Crossett, Joseph R., Wellman, Iowa. Mailbox. 2,430,916; Nov. 18.
- Crossley, Alfred, Evanston, and D. L. Elam, Roselle, Ill.; said Elam assignor to said Crossley. Detonation indicating system. 2,416,614; Feb. 25.
- Crossley, Robert H., Mansfield, Pa. Soil disintegrating and sifting screen. 2,415,675; Feb. 11.
- Crossman, Fred, and E. A. Southam, assignors to Lindsay Wire Weaving Company, Cleveland, Ohio. Needle grinder for fine die drilling machines. 2,417,810; Mar. 25.
- Crossman, Fred, E. A. Southam, and G. J. Ruhl, assignors to The Lindsay Wire Weaving Company, Cleveland, Ohio. Diamond die driller. 2,417,811; Mar. 25.
- Crosthwait, David N., Jr., Chicago, Ill., and E. W. Werts, Michigan City, Ind., assignors to C. A. Dunham Company, Marshalltown, Iowa. Balanced resistance type temperature control apparatus. 2,431,790; Dec. 2.
- Crot, Andre, Topanga, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Bulkhead mounting for conduits. 2,414,509; Jan. 21.
- Crot, André, North Hollywood, and R. R. Richolt, Tujunga, assignors to Lockheed Aircraft Corporation, Burbank, Calif. Alignable pulley. 2,421,685; June 3.
- Crothers, Robert W., Pittsburgh, and E. E. Vonada, McKeesport, Pa. Apparatus for determining gauge of metal strip. 2,432,727; Dec. 16.
- Crotty Manufacturing Corporation, assignee: See—  
Crotty, Michael C.
- Crotty, Michael C., Flushing, assignor to Crotty Manufacturing Corporation, New York, N. Y. Auxiliary boiler. 2,420,231; May 6.
- Crouch, Frank, Rockport, Mass. Interlocked bracket and support. 2,418,968; Apr. 15.
- Crouch, Joel E., State College, Pa. Icosahedral map. 2,424,601; July 29.
- Crouch, Willie W.; See—  
Schulze, Walter A., and Crouch.
- Crouch, Willie W., Bartlesville, Okla., assignor to Phillips Petroleum Company. Mercaptan oxidation process. 2,421,545; June 3.
- Crouch, Willie W., Bartlesville, Okla., assignor to Phillips Petroleum Company. Solvent extraction. 2,422,341; June 17.
- Crow, Frank, assignee, et al.: See—  
Clair, Louis C.
- Crowder, Fredrick A., Miami, Fla. Folding garment hanger. 2,418,870; Apr. 15.
- Crowe, Charles E., La Crescenta, Calif. Mailbox. 2,433,202; Dec. 23.
- Crowe, John, St. Joseph, Mo., assignor to H. F. Money-maker, Omaha, Nebr. Ventilated sight rib for firearm barrels. 2,431,991; Dec. 2.
- Crowe, John A.; See—  
Miller, Harold F., Crowe, and Barker.
- Crowe, John J., Westfield, N. J., assignor to Air Reduction Company, Incorporated. Apparatus for raising the disassociation pressure of acetylene in generators. 2,422,225; June 17.
- Crowley, Cornelius J., assignor to The Seamless Rubber Company, New Haven, Conn. Making rubber goods. 2,429,121; Oct. 14.
- Crowley, Cornelius J., assignor to The Seamless Rubber Company, New Haven, Conn. Making rubber gloves and like articles. 2,429,122; Oct. 14.
- Crowley, Cornelius J., assignor to The Seamless Rubber Company, New Haven, Conn. Making rubber goods. 2,429,123; Oct. 14.
- Crowley, Cornelius J., assignor to The Seamless Rubber Company, New Haven, Conn. Syringe. 2,429,869; Oct. 28.
- Crowley, George C., Bridgeport, Conn., assignor to General Electric Company. Bridge control for electric blankets. 2,429,453; Oct. 21.
- Crowley, Henry L., & Company, Inc., assignee: See—  
Hossenlopp, Arthur M.  
Williams, Clyde E., and Henderson.
- Crowley, John A., Jr.; See—  
Simpson, Thomas P., Payne, and Crowley.
- Crowley, John A., Jr., Scarsdale, N. Y., assignor to Socony-Vacuum Oil Company, Incorporated. Method and apparatus for contacting gases with solid contact materials. 2,430,669; Nov. 11.
- Crowley, John C., Cleveland Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Rubber valve stem. 2,424,802; July 29.
- Crowley, John C., Cleveland Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Gauge. 2,427,199; Sept. 9.
- Crowley, John C., Cleveland Heights, assignor to The Dill Manufacturing Company, Cleveland, Ohio. Portable tire repair unit. 2,432,139; Dec. 9.
- Crowley, John C., Willoughby, Ohio. Apparatus for applying heat and pressure to strip material. 2,433,094; Dec. 23.



- Crowley, Robert E., Jamaica, N. Y. Recording moving objects. 2,430,975; Nov. 18.
- Crown Cork & Seal Company, Inc., assignee: *See*—  
Enkur, Edward M., Pahl, and Lauve.  
Gavin, Frank J.  
Warth, Albin H., and Lillard.
- Crown Fastener Corporation, assignee: *See*—  
Taylor, William H., Pierce, and Andrews.  
Willis, Charles C.
- Crown Rheostat & Supply Co., assignee: *See*—  
Huenerfauth, George E., Green, and Yochim.
- Crown, Robert, assignee: *See*—  
McArthur, Herbert A., and Decker.
- Crowther, George A., Manhasset, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Recording mechanism. 2,421,834; June 10.
- Crowther, Harold E., Laurel, Md., assignor to Aquacide Company, Washington, D. C. Oil separation method for vitaminiferous protein material and the like. 2,413,692; Jan. 7.
- Crozler, Harold E., Hawthorne, Calif. Collet attachment for lathes or other metalworking machines. 2,420,067; May 6.
- Crozler, Harold E., Hawthorne, Calif. Single-phase induction motor control. 2,429,049; Oct. 14.
- Crucible Steel Company of America, assignee: *See*—  
Briggs, Janet Z.  
Hopper, Edward W.  
Hyde, George G.
- Cruikshank, Douglas W., assignee: *See*—  
Hazen, James D.
- Crump, Elmo E., East Orange, and L. G. Kersta, Madison, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Pulse generator. 2,419,201; Apr. 22.
- Crump, Woodford J., assignor to Aircraft Tools, Inc., Los Angeles, Calif. Universal drill support. 2,414,637; Jan. 21.
- Crumrine, Chester W., assignor to Eastman Kodak Company, Rochester, N. Y. Roll holding camera. 2,417,240; Mar. 11.
- Crumrine, Kenneth C., Bellaire, Tex., assignor to The Texas Company, New York, N. Y. Measurement of thickness. 2,425,512; Aug. 12.
- Cruse, Robert R.: *See*—  
Bearse, Arthur E., and Cruse.
- Crutcher-Rolls-Cummings Company, assignee: *See*—  
Cummings, James D.
- Cruthers, Herbert G.: *See*—  
Slagstad, Ole, and Cruthers.
- Cruzan, Harold: *See*—  
Warrick, Edward C., and Cruzan.
- Cruzan, Harold, and E. C. Warrick, assignors to United Aircraft Products, Inc., Dayton, Ohio. Thermostatic surge valve. 2,419,630; Apr. 29.
- Crystal Products Company, assignee: *See*—  
Ziegler, Walter H.
- Crystal Research Laboratories, Inc., assignee: *See*—  
Robb, Charles G., and Warner.
- Csencics, Steve, Erie, Pa. Lantern support. 2,430,161; Nov. 4.
- Cuban Dominican Sales Corporation, assignee, et al.: *See*—  
Nagle, John J.
- Cubin, Thomas: *See*—  
Shearer, Alexander P., Witten, and Cubin.
- Cucci, Victor J., Brooklyn, N. Y., assignor to Ilg Electric Ventilating Company. Pivotaly mounted porthole blackout ventilator including a motor-driven fan. 2,418,760; Apr. 8.
- Culkosky, Martin, and K. Oresik, Gary, Ind. Bending machine. 2,427,949; Sept. 23.
- Cullen, John F., assignee, et al.: *See*—  
Dugan, Kenneth.
- Culligan, Emmett J., San Bernardino, Calif., and G. H. Klumb, assignors to Culligan Zeolite Company, Northbrook, Ill. Hair drying means provided with silica gel. 2,420,358; May 13.
- Culligan Zeolite Company, assignee: *See*—  
Culligan, Emmett J., and Klumb.
- Culp, Lide C., El Dorado, Ark. Grinder for gate valve inserts. 2,417,737; Mar. 18.
- Culp, Lide C., El Dorado, Ark. Grinding valves. 2,417,971; Mar. 25.
- Culver, William, Chicago, Ill. Support for classifying systems. 2,429,016; Oct. 14.
- Cumming, James M., Turtle Creek, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,419,123; Apr. 15.
- Cummings, James D., assignor to Crutcher-Rolls-Cummings Company, Houston, Tex. Apparatus for cold bending of large diameter thin walled pipe. 2,428,764; Oct. 7.
- Cummings, Leland W. T., Wyncote, Pa., assignor, by mesne assignments, to Houdry Process Corporation, Wilmington, Del. Cyclic catalytic process. 2,433,345; Dec. 30.
- Cummings, Robert E., University Heights, assignor to Thompson Products, Inc., Cleveland, Ohio. Lubricant controlling valve spring retainer lock. 2,419,708; Apr. 29.
- Cummins, Arthur B., Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Siliceous contact material and manufacture. 2,423,686; July 8.
- Cummins, Arthur B., Plainfield, N. J., and A. M. Dinkfield, Palo Alto, Calif., assignors to Johns-Manville Corporation, New York, N. Y. Manufacture of magnesia insulation. 2,428,555; Oct. 7.
- Cumpston, James H., Corsicana, Tex. Hoe. 2,421,600; June 3.
- Cunder, Joseph, Newark, assignor to National Oil Products Company, Harrison, N. J. Detergent composition. 2,414,452; Jan. 21.
- Cundiff, William N.: *See*—  
Norris, David L., Sr., and Cundiff.
- Cuneo, Joseph: *See*—  
Richardson, Joseph W., and Cuneo.
- Cuneo Press, Inc., The, assignee: *See*—  
Stewart, John W.
- Cunliffe, Wilfred, Stamford, Conn., assignor, by mesne assignments, to Schlick Incorporated. Making shear plates for electric shavers. 2,423,177; July 1.
- Cunningham, Edwin R., Lyon Park, Va., assignor to Switlik Parachute Company, Trenton, N. J. Cargo discharging device. 2,426,862; Sept. 2.
- Cunningham, Frederick W., assignor to Arma Corporation, Brooklyn, N. Y. Electrical amplifier. 2,429,124; Oct. 14.
- Cunningham, John, assignee: *See*—  
Briggs, Carl R.
- Cunningham, Lewis L., Lutherville, Md., assignor to General Controls Co., Glendale, Calif. Pressure regulator. 2,415,812; Feb. 18.
- Cunningham, Lewis L., Los Angeles, assignor to General Controls Co., Glendale, Calif. Control system. 2,424,304; July 22.
- Cunny, Walter F., and H. E. King, Jr., assignor, by mesne assignments, to Ideal Industries, Inc., Sycamore, Ill. Wire stripper. 2,422,776; June 24.
- Cuperka, Joseph L., Chicago, Ill. Railroad rail joint. 2,433,095; Dec. 23.
- Cupler, John A., Cumberland, Md., and C. W. Truxell, Jr., Detroit, Mich. Drill press. 2,420,521; May 13.
- Curd, Francis H. S., and F. L. Rose, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Pyrimidine compound and making the same. 2,422,887; June 24.
- Curd, Francis H. S., and F. L. Rose, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Pyrimidine compounds and making the same. 2,422,888; June 24.
- Curd, Francis H. S., and F. L. Rose, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Pyrimidine compounds and making the same. 2,422,889; June 24.
- Curd, Francis H. S., and F. L. Rose, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Pyrimidine compounds. 2,422,890; June 24.
- Curd, Francis H. S., C. G. Raison, and F. L. Rose, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Pyrimidine compounds. 2,433,439; Dec. 30.
- Curd, Francis H. S., C. G. Raison, and F. L. Rose, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Pyrimidine compounds. 2,433,440; Dec. 30.
- Curle, Charles W., San Francisco, T. C. Curle, Ross, and R. F. Newton, San Francisco, Calif. Type slug end cutter. 2,426,727; Sept. 2.
- Curle, Theodore C.: *See*—  
Curle, Charles W., Curle, and Newton.
- Curlee, William F., assignee: *See*—  
Acres, Richard L.
- Curley, Robert S., Biddeford, assignor to Saco-Lowell Shops, Boston, Mass. Cotton picker. 2,423,928; July 15.
- Curll, Harold E., Norristown, and P. K. Smith, Plymouth Meeting, assignors to Vulcan Corporation, Philadelphia, Pa. Heat treating furnace. 2,420,126; May 6.
- Curphy, William C., Des Moines, Iowa. Exhaust pipe attachment. 2,420,700; May 20.
- Curran, Edward, & Company Limited, assignee: *See*—  
Curran, William E.
- Curran, William E., assignor to Edward Curran & Company Limited, Cardiff, Wales. Apparatus for cleaning and otherwise treating small articles. 2,427,388; Sept. 16.
- Curren, Paul G., U. S. Navy. Wax bite rim former. 2,417,812; Mar. 25.
- Currie, Chester C.: *See*—  
Hunter, Melvin J., Fletcher, and Currie.
- Currier, Arthur, Tilton, assignor to Acme Knitting Machine & Needle Company, Franklin, N. H. Knitting machine needle and jack. 2,431,635; Nov. 25.
- Currier, Floyd, Oakland, Calif. Automatic boom lock. 2,423,584; July 8.
- Curry, Harold E., Seattle, Wash. Atomizer. 2,432,660; Dec. 16.
- Curry, Herman H., U. S. Coast Guard, Morristown, N. J. Control for synchronized pump motors. 2,430,917; Nov. 18.
- Curry, Paul N., Kalamazoo, Mich. Hydraulically balanced seal. 2,430,918; Nov. 18.
- Curry, Robert S., Jr., Baldwin, N. Y., assignor to Sperry Gyroscope Company, Inc., Gyroscope. 2,429,612; Oct. 28.



- Curry, Robert S., Jr., Baldwin, and O. E. Esval, Huntington, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Torque exerting means for gyroscopes. 2,415,813; Feb. 18.
- Curry, Robert S., Jr., Baldwin, J. H. Horman, Tuckahoe, and A. C. Kircher and H. Winsker, Jackson Heights, assignors, by mesne assignments, to Allied Control Company, Inc., New York, N. Y. Balanced relay. 2,422,396; June 17.
- Curry, Robert S., Jr., Baldwin, and C. F. Fragola, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Concentric core flux valve. 2,428,014; Sept. 30.
- Curtenius, Frederick B., Kalamazoo, Mich. Production schedule apparatus. 2,419,631; Apr. 29.
- Curtis Automotive Devices, Inc., assignee: *See*—Curtis, Russell R.
- Curtis, Clarence D., and D. P. Graffin, Hattiesburg, Miss. Bowling game. 2,413,749; Jan. 7.
- Curtis, Dale M., Nitro, W. Va., assignor to American Viscose Corporation, Wilmington, Del. Cutting apparatus. 2,424,555; July 29.
- Curtis, Earl M., Paw Paw, Mich. Curved handle wrench for relatively inaccessible threaded objects. 2,426,763; Sept. 2.
- Curtis, Ernest B., Yonkers, assignor to R. T. Vanderbilt Co., Inc., New York, N. Y. Vulcanization accelerator. 2,421,243; May 27.
- Curtis, Fred C., Vallejo, Calif. Clothesline fixture. 2,426,924; Sept. 2.
- Curtiss, George E., Jr., Penn Wynne, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Shelf for refrigerator cabinets. 2,429,709; Oct. 28.
- Curtis, George W., Wauwatosa, Wis. Jointless track-layer suspension. 2,416,679; Mar. 4.
- Curtis, Gerard W., Edgewater, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Recovery of chrysene. 2,419,011; Apr. 15.
- Curtis, Helene, Industries, Inc., assignee: *See*—Abernathy, David W.  
Frankel, Samuel H.  
Grant, Samuel.  
Nemeth, Otto R.  
Reininger, Carl A.
- Curtis, Henry C., Vallejo, Calif. Cutting tool. 2,417,813; Mar. 25.
- Curtis, Lewis G., assignee: *See*—Bedworth, Arthur H., and Curtis.
- Curtis, Myron S., and H. Schoepe, assignors to The Warner & Swasey Company, Cleveland, Ohio. Connecting and positioning device. 2,424,153; July 15.
- Curtis Pump Company, assignee: *See*—Curtis, Russell R.  
Curtis, Russell R., and Dinsmore.  
Heckert, Frederick W., and Curtis.  
Kimm, Ewald J., and Bellmann.
- Curtis, Roger C.: *See*—Frederick, Carl L., and Curtis.
- Curtis, Russell H., St. Charles, Ill., assignor, by mesne assignments, to Hawley Products Company. Apparatus for making accreted fibrous products. 2,416,680; Mar. 4.
- Curtis, Russell R.: *See*—Heckert, Frederick W., and Curtis.
- Curtis, Russell R., assignor, by mesne assignments, to Curtis Automotive Devices, Inc., Dayton, Ohio. Selector valve. 2,415,466; Feb. 11.
- Curtis, Russell R., assignor, by mesne assignments, to Curtis Automotive Devices, Inc., Dayton, Ohio. Automatic temperature control device. 2,415,994; Feb. 18.
- Curtis, Russell R., assignor to Curtis Pump Company, Dayton, Ohio. Liquid and vapor separating pump. 2,418,221; Apr. 1.
- Curtis, Russell R., assignor to Curtis Pump Company, Dayton, Ohio. Pump seal. 2,427,716; Sept. 23.
- Curtis, Russell R., and T. R. Dinsmore, assignors to Curtis Pump Company, Dayton, Ohio. Booster pump. 2,419,676; Apr. 29.
- Curtis, Russell R., and Harry C. Morgan, Dayton, assignors by mesne assignments, to Thompson Products, Inc., Cleveland, Ohio. Fuel gauge. 2,423,875; July 15.
- Curtis, Wilbur D., Studio City, Calif. Percolator. 2,415,339; Feb. 4.
- Curtiss Aeroplane and Motor Company, Incorporated, assignee: *See*—Trimbach, Clem G., Luburg, and Lemonier.
- Curtiss, Frank R., New Haven, Conn. Staple remover. 2,431,922; Dec. 2.
- Curtiss, William R., assignor to Great American Industries, Inc., Meriden, Conn. Directional signal system for vehicles. 2,432,388; Dec. 9.
- Curtiss-Wright Corporation, assignee: *See*—Barnes, Joseph T., and Collins.  
Brady, George W.  
Chillson, Charles W., and Brady.  
Dean, George A.  
Eaton, Bruce G., Jr., Meyer, Cannon, and Raiche.  
Fairbanks, Anthony M.  
Flader, Fredric E., Lakowitz, and Steele.  
Goodlett, Edward R.  
Grant, Robert B.  
Griffin, Harry McMurtry.  
Gunner, George W., and Bartholomew.
- Curtiss-Wright Corporation, assignee: *See*—Continued.  
Hirsch, Harold.  
Holfelder, August A.  
Inglis, William S.  
Jenny, Robert W.  
Lappin, Arthur N., and Bjerke.  
Matthews, Arthur F., McClure, and Siroky.  
McComb, David J.  
McKee, James H.  
Murphy, Howard, and Linse.  
Newman, Albert J.  
Noyes, John.  
Peterson, William J.  
Pilson, John C.  
Rogers, Edward E.  
Scarborough, William M.  
Scott, Carl W.  
Trimbach, Clem G.  
Turansky, Clement J., and Grom.  
Vogt, John J.  
Volk, Edward W.  
Wells, Willis L.  
Wendt, Harold O.
- Curved Plywood Products Co., assignee: *See*—Stewart, James S.
- Cushing, George H., Chicago, Ill. Combined stoker and furnace. 2,414,802; Jan. 28.
- Cushman, Everett H., New York, N. Y., assignor to Air Reduction Company, Incorporated. Plunger type electrode holder. 2,428,409; Oct. 7.
- Cushman's Sons, Inc., assignee: *See*—MacManus, John.
- Custer, Willard R.: *See*—Crook, Louis H., and Custer.
- Custer, Willard R., Hagerstown, Md. Multiple propeller wing channel. 2,424,556; July 29.
- Cusumano, Rudolph, Los Angeles, Calif. Venetian blind. 2,420,301; May 13.
- Cutler, Cassius C., Oakhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Directional microwave antenna. 2,422,184; June 17.
- Cutler, Day E., assignor to The J. S. McCormick Co., Pittsburgh, Pa. Production of mold parts. 2,426,000; Aug. 19.
- Cutler-Hammer, Inc., assignee: *See*—Addicks, Walter E., and Perrine.  
Adriansen, John R., and Eck.  
Buerki, Christian E., and Mekelburg.  
Charbonneau, Allan P.  
Cox, Irvin W.  
Eckstein, James F.  
Elliot, William H.  
Hansen, Kenneth H.  
Koenig, Martin F., and Krieger.  
Kuhn, Clarence W., and Rosing.  
Lassen, Eivind U.  
Mekelburg, Harold L.  
Newman, John M.  
Pell, Eric.  
Pell, Eric, and Schmitz.  
Reeves, James B.  
Reeves, James B., and Seeger.  
Schmidt, Edwin X.  
Swinehart, Merle R.
- Cutler, Jacob, Matapan, Mass., assignor to Maryland Baking Company, Inc., Baltimore, Md. Cone jacket forming machine. 2,420,417; May 13.
- Cutler, Jacob, Matapan, Mass., assignor to Maryland Baking Company, Inc., Baltimore, Md. Mechanism for ejecting completed jackets from mandrels. 2,423,486; July 8.
- Cutter, Charles H.: *See*—MacFarland, William A., and Cutter.
- Cutting, Theodore A., Campbell, Calif. Adjustable folding spectroscopy. 2,431,734; Dec. 2.
- Cuvelliez, François, Hoboken, near Antwerp, Belgium. Treatment of materials containing tantalum and niobium. 2,429,671; Oct. 28.
- Cypser, Hugo F., assignor to Signal Engineering & Manufacturing Company, New York, N. Y. Electrical circuit controlling device. 2,421,998; June 10.
- Cyr, Benjamin: *See*—Beam, Vilynn O., Wilson, and Cyr.  
Sparrow, Hubert T., and Cyr.
- Cyr, Benjamin, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Safety mechanism. 2,422,471; June 17.
- Cyr, Benjamin, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Locking device for screws and nuts. 2,431,735; Dec. 2.
- Czajcinski, Agnes R., and H. R. Sparks, St. Louis, Mo. Shampooing apparatus. 2,425,513; Aug. 12.
- Czapek, Emil, New York, N. Y. Cellulose sheets and making them. Re. 22,950; Dec. 23.
- Czarnecki, Sigmund A., Glastonbury, assignor to United Aircraft Corporation, East Hartford, Conn. Machine for finishing irregularly shaped articles. 2,426,764; Sept. 2.
- Czarnecki, Walter, assignor to Eddington Metal Specialty Company, Eddington, Pa. Rotary pump. 2,423,639; July 8.



- Czczewitzka, Rudolph H., assignor to Texproof Limited, Pendleton, Salford, England. Coating textile fabric with polyvinyl resin. 2,424,386; July 22.
- Czerwiczuk, Stanley J., Milwaukee, Wis. Weather seal. 2,417,470; Mar. 18.
- D-V Welding Controls, assignee: *See*—  
Dysart, Ronald R.
- Daab, Elmer L., University City, Mo. Window construction. 2,418,014; Mar. 25.
- Daboul, Richard M., Tarboro, N. C. Mastlicating fork. 2,423,487; July 8.
- Dacey, Edward J., Philadelphia, Pa., assignor to A. & M. Karagheusian, Inc., New York, N. Y. Pile fabric. 2,430,559; Nov. 11.
- Dacey, Michael J., Sault Ste. Marie, Ontario, Canada. Protector for garbage cans and the like. 2,418,291; Apr. 1.
- Dach, Max, Flushing, N. Y. Air tank. 2,424,879; July 29.
- Daevs, Karl: *See*—  
Becker, Gottfried, Daevs, and Steinberg.
- Dague, Harold F., South Gate, assignor of one-half to W. B. Collins, Los Angeles, Calif. Oil purifying substances and making the same. 2,425,085; Aug. 5.
- Dahl, Robert E., Cicero, Ill. Grinding wheel dresser. 2,428,786; Oct. 14.
- Dahlander, Noel L., New Milford, Pa., assignor of one-half to R. J. Earl, Deerfield Beach, Fla. Pivotaly mounted safety hook. 2,418,111; Apr. 1.
- Dahlberg, Arthur O., Scarsdale, N. Y. Fountain pen. 2,417,861; Mar. 25.
- Dahlbom, Adolf H. G.: *See*—  
Nilsson, Nils A. H., and Dahlbom.
- Dahlbom, Carl A., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraph trunk circuit. 2,415,420; Feb. 11.
- Dahlne, Lawrence J., and W. J. Field, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electric control device. 2,416,159; Feb. 18.
- Dahlman, Eben D., Grandy, Minn. Potato digger and picker. 2,421,999; June 10.
- Dahlman, Verner, assignor to American Air Filter Company, Inc., Louisville, Ky. Air filter cell. 2,415,579; Feb. 11.
- Dahlstedt, Adolf S.: *See*—  
Alexandersson, Harald V., and Dahlstedt.
- Dahlstrom, Walter G., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Apparatus for coating wire and the like. 2,429,870; Oct. 28.
- Dalber, Ome C., Seattle, Wash. Packboard. 2,421,244; May 27.
- Dailey, Donald E., Germantown, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Two-temperature refrigerator. 2,430,456; Nov. 11.
- Dailey, Hampton J., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, Pittsburgh, Pa. Insulating means for metallic spacers in electron discharge devices. 2,419,124; Apr. 15.
- Dailey, Hampton J., Bloomfield, and C. H. Scullin, East Orange, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Pulsed oscillator. 2,432,227; Dec. 9.
- Dailey, Manvel C.: *See*—  
Linzell, Harry K., Simpson, and Dailey.
- Dain Manufacturing Co. of Iowa, assignee: *See*—  
Hill, George B.
- McClellan, Marcus E., and West.
- Dake, George E., and E. F. Speiden, assignors to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Conveyor control system. 2,421,056; May 27.
- Dakin, Guy L., Dansville, Mich. Shaping, punching, and trimming die mechanism. 2,422,952; June 24.
- Dalby, Gaston: *See*—  
Russ, Walter R., Hoffman, Schweitzer, and Dalby.
- Dale, Charles M., Scarsdale, N. Y., assignor to The Coinmaster Corp. Coin bank. 2,426,966; Sept. 2.
- Dale, Clark H., Lewiston, N. Y., assignor, by mesne assignments, to United States Vanadium Corporation. Dehydration of acetonitrile by decantation and distillation. 2,417,862; Mar. 25.
- Dale, Colin B., Oak Park, assignor to Webster-Chicago Corporation, Chicago, Ill. Phonograph needle guard. 2,417,814; Mar. 25.
- Dale, Julian K., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Obtaining crystalline riboflavin. 2,421,142; May 27.
- D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Vulcanizable compositions. 2,414,803; Jan. 28.
- D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Interpolymerizing butadiene, styrene, and ethyl acrylate. 2,419,202; Apr. 22.
- D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Interpolymerization products. 2,428,787; Oct. 14.
- D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Interpolymerization products. 2,428,788; Oct. 14.
- D'Alelio, Gaetano F., Pittsfield, Mass., assignor to General Electric Company. Reaction products of aldehydes and triazine derivatives. 2,430,708; Nov. 11.
- D'Alelio, Gaetano F., assignor to Pro-phy-lac-tic Brush Company, Northampton, Mass. Molecularly oriented copolymers of acrylonitrile, a vinyl aryl compound, and acrylic esters or vinyl ethers. 2,417,293; Mar. 11.
- D'Alelio, Gaetano F., assignor to Pro-phy-lac-tic Brush Company, Northampton, Mass. Preparing molecularly oriented copolymerizations of acrylonitrile and other mono-ethylenic monomers. 2,417,294; Mar. 11.
- D'Alelio, Gaetano F., Northampton, Mass., assignor to General Electric Company. Reaction products of an aldehyde and a triazine derivative. 2,417,679; Mar. 18.
- D'Alelio, Gaetano F., assignor to Pro-phy-lac-tic Brush Company, Northampton, Mass. Preparing molecularly oriented copolymers of acrylonitrile, butadiene 1,3 and a vinyl ether. 2,425,086; Aug. 5.
- D'Alelio, Gaetano F., assignor to Pro-phy-lac-tic Brush Company, Northampton, Mass. Molecularly oriented copolymers of acrylonitrile, a saturated monohydric alcohol ester of an ethylene alpha beta dicarboxylic acid, and acrylic esters or vinyl ethers. 2,426,728; Sept. 2.
- D'Alelio, Gaetano F., assignor to Pro-phy-lac-tic Brush Company, Northampton, Mass. Copolymer of divinyl benzene and diethyl fumarate. 2,430,109; Nov. 4.
- D'Alelio, Gaetano F., assignor to Pro-phy-lac-tic Brush Company, Northampton, Mass. Copolymers of divinyl benzene and monohydric alcohol esters of itaconic acid. 2,431,373; Nov. 25.
- D'Alelio, Gaetano F., assignor to Pro-phy-lac-tic Brush Company, Northampton, Mass. Copolymers of diallyl maleate and saturated monohydric alcohol esters of maleic and fumaric acids. 2,431,374; Nov. 25.
- D'Alelio, Gaetano F., and J. W. Underwood, Pittsfield, Mass., assignors to General Electric Company. Triazine derivatives. 2,418,336; Apr. 1.
- Dallessandro, Salvatore, assignee, et al.: *See*—  
La Cagnina, Orazio.
- Dalin, David, Sodertalje, and G. Hagby, Ostertalje, Sweden. Utilizing heat of waste gases for steam generation. 2,433,547; Dec. 30.
- Dalkin, A., Company, assignee: *See*—  
Yuza, Rudolph.
- Dalkin Company, assignee: *See*—  
Yuza, Rudolph.
- Dallisson, Reginald T. A.: *See*—  
Uren, Harold, and Dallisson.
- Dally, Don A., Pillager, Minn. Decorative knife handle. 2,423,640; July 8.
- Dalotel, Maurice Albert, Deuil, assignor to Suzanne Rosalie, Mathot, Paris, France. Sighting device for moving picture cameras. 2,423,967; July 15.
- Dalrymple, Henry C., West Orange, N. J., assignor to Guided Radio Corporation, New York, N. Y. Electric megaphone. 2,428,147; Sept. 30.
- Dalrymple, Howard S.: *See*—  
Potts, Walter J., and Dalrymple.
- Dalrymple, Wayne W.: *See*—  
Glass, Mansfield D., Dalrymple, and Halsted.
- Dalton, George A., assignor to John Waldron Corporation, New Brunswick, N. J. Flexible coupling. 2,421,546; June 3.
- Dalton, Robert H., assignor to Corning Glass Works, Corning, N. Y. Glass article. 2,422,472; June 17.
- Dalton, Thomas L., Kansas City, Mo. Combination signal and radio aerial. 2,420,772; May 20.
- Dalton, William, Schenectady, N. Y., assignor to General Electric Company. Freezing tray. 2,422,473; June 17.
- Daly, Charles L., Belmont, Mass. Platform shoe and making same. 2,431,467; Nov. 25.
- Daly, Gail: *See*—  
Bradley, William E.
- Daly, George F.: *See*—  
Lake, Clair D., and Daly.
- Daly, George F., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Projection apparatus for bombardier training apparatus. 2,417,354; Mar. 11.
- Daly, George F., Endicott, and C. D. Lake, Binghamton, assignors to International Business Machines Corporation, New York, N. Y. Record card feeding mechanism. 2,415,279; Feb. 4.
- Daly, Lawrence E., Osceola, Ind., assignor to United States Rubber Company, New York, N. Y. Cellular products. 2,432,389; Dec. 9.
- Daly, Le Grand, Birmingham, Mich. Making articles from plastic treated materials. 2,420,522; May 13.
- Daly, Le Grand, Birmingham, Mich. Making helmets. 2,423,076; July 1.
- Dalzell, Charles B., Little Falls, N. Y., assignor to Cherry-Burrell Corporation, Chicago, Ill. Tubular detachable filter. 2,418,247; Apr. 1.
- Dalzell, Charles B., and E. Wyman, Little Falls, N. Y., assignors to Cherry-Burrell Corporation, Wilmington, Del. Heat exchange element. 2,421,245; May 27.
- Dalzell, Clarence W., West Caldwell, assignor to Knickerbocker Development Corporation, Belleville, N. J. Thermostatically controlled charger. 2,413,865; Jan. 7.
- Dalzell, Clarence W., West Caldwell, assignor to Knickerbocker Development Corporation, Belleville, N. J. Compensatory suppressed pointer adjustment for electric meters. 2,431,992; Dec. 2.
- D'Amico, Joseph S.: *See*—  
Thomas, Hal M., and D'Amico.



- Dammers, Bernhardus G.: *See*—  
Alma, Gerrit H. P., and Dammers.
- Damond, Emile, Paris, France. Intermittent and automatic outflow of various materials. 2,433,684; Dec. 30.
- Damrell, William T., Mooresville, Mo. Inside-outside pipe grip. 2,418,626; Apr. 8.
- Damstra, Peter G., Holland, Mich. Clothesline reel. 2,417,587; Mar. 18.
- Dana Corporation, assignee: *See*—  
Peterson, Carl D., and Barth.
- Dana, Frank E., Kilgore, Tex. Cleaning oil wells. 2,415,729; Feb. 11.
- Danciger Oil & Refineries, Inc., assignee: *See*—  
Isham, Robert M.
- Danforth, Joseph D., Downers Grove, assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons in the presence of a catalyst consisting essentially of titaniagel and boron oxide. 2,425,087; Aug. 5.
- Dangelmajer, Charles, Nutley, assignor to Resistoflex Corporation, Belleville, N. J. Plasticized polyvinyl alcohol. 2,430,919; Nov. 18.
- Daniel, Jacob, Yonkers, M. Troster, Jr., New York, and N. W. Sederberg, Flushing, assignors to Otis Elevator Company, New York, N. Y. Protective apparatus for polyphase alternating current units. 2,419,269; Apr. 22.
- Daniel, Palo R., assignee: *See*—  
Salzer, John.
- Danel, Pierre F., assignor to Ateliers Neyret-Beylier & Picard-Pictet (Societe Anonyme), Grenoble, France. Apparatus for utilizing the energy of sea waves. 2,432,510; Dec. 16.
- Daniels, Arthur W., Cedar Rapids, Iowa, and J. P. Murtaugh, Oak Park, Ill. Excavating tooth. 2,419,677; Apr. 29.
- Daniels, C. R., Inc., assignee: *See*—  
Donnelly, Henry G.
- Daniels, Farrington, W. G. Hendrickson, and F. M. Wolf, assignors to Wisconsin Alumni Research Foundation, Madison, Wis. Gas reaction furnace. 2,421,744; June 10.
- Daniels, Frederick A., Wilmington, Del. V-belt. 2,430,328; Nov. 4.
- Daniels, George C., Jackson, Mich. Centrifugal hydraulic dust evacuator. 2,430,278; Nov. 4.
- Daniels, Gordon E., Nashville, Tenn. Dirt scraper. 2,414,933; Jan. 28.
- Daniels, Gordon E., Nashville, Tenn. Scraping apparatus. 2,425,601; Aug. 12.
- Daniels, Henry S., Englewood, N. J., assignor to Union Bag & Paper Corporation, New York, N. Y. Cloth and paper bag. 2,428,266; Sept. 30.
- Daniels, Lee G., Rockford, Ill. Rotary type multiport valve. 2,428,410; Oct. 7.
- Daniels, Ralph, and H. Levy, New York, N. Y., assignors, by mesne assignments, to Burton T. Bush, Inc. Esters of valerolactone. 2,428,015; Sept. 30.
- Danielson, Paul F., Los Angeles, Calif. Apparatus for grinding bushings. 2,418,871; Apr. 15.
- Danielson, Paul F., Los Angeles, Calif. Piston expander. 2,432,728; Dec. 16.
- Dann, Charles W., Orange, and R. M. Somers, assignors to Thomas A. Edison, Incorporated, West Orange, N. J. Phonograph arrangement. 2,414,140; Jan. 14.
- D'Anna, Anthony J., assignee, et al.: *See*—  
Boyer, Joseph.
- Rainsford, Thomas F.
- Dannehower, Gilbert L., Westfield, and W. B. Heinz, Bound Brook, N. J. Apparatus for cutting bars, tubes, and the like. 2,422,531; June 17.
- Danner, Edward, Newark, Ohio. Manufacture of glassware. 2,420,934; May 20.
- Danner, Edward, Newark, Ohio. Apparatus for the manufacture of glassware. 2,429,220; Oct. 21.
- Danner, Philip S., deceased, by V. G. Danner, executrix, and R. C. Mithoff, Berkeley; said P. S. Danner, and said Mithoff, assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif. Catalytic treatment of petroleum hydrocarbons. 2,433,603; Dec. 30.
- Danner, Vernita G., executrix, assignee: *See*—  
Danner, Philip S., and Mithoff.
- Dannöhl, Walter, and H. Neumann, Berlin-Siemensstadt, Germany; vested in the Attorney General of the United States. Permanent magnet alloy. 2,428,205; Sept. 30.
- Dan River Mills, Incorporated, assignee: *See*—  
Womble, Glenn F., and Feldmann.
- Dantzig, George B., Arlington, Va. Computer for solving bombing problems. 2,421,745; June 10.
- Danziger, Abraham, assignor of one-half to S. L. Chasin, Brooklyn, N. Y. Insect powder sprayer. 2,432,288; Dec. 9.
- Danziger, Harold I., West Orange, N. J. Condenser assembling machine. 2,419,484; Apr. 22.
- D'Aquin, George A., Houston, Tex. Evaporating set. 2,420,935; May 20.
- Darby, Douglas, assignee: *See*—  
Swain, Frank E.
- Darby, Paul F., Fairfield, assignor to Remington Arms Company, Inc., Bridgeport, Conn. Testing machine. 2,432,390; Dec. 9.
- Darche, George, assignee, et al.: *See*—  
Warren, Lucille P.
- D'Arcy, James M., Brooklyn, N. Y. Cymbal beating device. 2,417,972; Mar. 25.
- D'Ardenne, Walter H.: *See*—  
Lambert, Albert L., and D'Ardenne.
- D'Ardenne, Walter H. D., Jenkintown Manor, W. J. Meinel, Huntingdon Valley, W. de Vore, Horsham Township, Montgomery County, and R. W. Wolf, Philadelphia, Pa., assignors to Heintz Manufacturing Company. Gun mount. 2,415,340; Feb. 4.
- Darland, Edison M., and C. Kassebaum, Rockford, Ill. Grinder wheel dresser. 2,421,143; May 27.
- Darley, W. S., & Company, assignee: *See*—  
Yates, De Witt E.
- Darli Industrial Management, Inc., assignee: *See*—  
Ligh, David R.
- Darlington, Sidney, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Impulse generator. 2,420,302; May 13.
- Darmara, Fali H., Utica, N. Y., assignor to Utica Drop Forge Tool Corporation. Heating opposed metal parts by combined induced and conducted electric currents. 2,426,985; Sept. 9.
- Darnell, Jesse L., assignor to The Lockwood Manufacturing Company, Cincinnati, Ohio. Collapsible bottle carrier. 2,431,231; Nov. 18.
- Darner, Frederic M., Shaker Heights, assignor to Republic Steel Corporation, Cleveland, Ohio. Collet construction for bar turning machines. 2,427,322; Sept. 9.
- Da Roza, Francis G., Ferndale, and K. Sarafian, assignors to General Motors Corporation, Detroit, Mich. Control system. 2,430,213; Nov. 4.
- Darr, Harold W., assignor to The Maico Company, Incorporated, Minneapolis, Minn. Resilient mounting for microphones. 2,417,153; Mar. 11.
- Darrin, Marc: *See*—  
Tarr, Omar F., and Darrin.
- Darwin, Clifford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Shuttle check for looms. 2,417,295; Mar. 11.
- Dasher, Don E., assignor to Bendix Aviation Corporation, Detroit, Mich. Making dies. 2,420,359; May 13.
- Dasher, George M.: *See*—  
Goodwin, Robert R., and Dasher.
- Dasher, Norman, New York, N. Y. Machine for making slide fastener stringers. 2,418,761; Apr. 8.
- Dasher, Paul J., Stow, R. A. Crawford, Akron, and R. S. Colley, Kent, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Self-sealing fuel tank. 2,425,514; Aug. 12.
- Da Silva, Jose, assignee, et al.: *See*—  
Bartho, John C.
- Datesh, John N.: *See*—  
Datesh, Nicholas and J. N.
- Datesh, Nicholas J. and J. N. Dormont, Pa. Treatment of petroleum oils. 2,431,792; Dec. 2.
- Dath, George E., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber. 2,418,812; Jan. 7.
- Dath, George E., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorbing mechanism. 2,414,222; Jan. 14.
- Dath, George E., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber. 2,415,162; Feb. 4.
- Dath, George E., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber. 2,415,163; Feb. 4.
- Dath, George E., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber. 2,415,164; Feb. 4.
- Dath, George E., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber. 2,417,154; Mar. 11.
- Dath, George E., assignor to W. H. Miner, Inc., Chicago, Ill. Snubbing means. 2,417,545; Mar. 18.
- Dath, George E., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber. 2,426,261; Aug. 26.
- Dath, George E., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber. 2,426,672; Sept. 2.
- Dath, George E., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorbing mechanism. 2,431,375; Nov. 25.
- Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Railway car truck. Re. 22,867; Apr. 15.
- Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Buffer. 2,419,254; Apr. 22.
- Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Buffer. 2,420,701; May 20.
- Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorbing mechanism. 2,422,717; June 24.
- Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Shock absorbing mechanism. 2,422,718; June 24.
- Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Spring and friction buffer for railway cars. 2,423,876; July 15.
- Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Spring and friction buffer for railway cars. 2,423,877; July 15.
- Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Railway draft spring and friction shock absorbing mechanism. 2,425,364; Aug. 12.
- Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Railroad draft gear friction shock absorbing mechanism. 2,426,262; Aug. 26.



- Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Hand brake. 2,427,389; Sept. 16.
- Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Railway car end buffer shock absorber. 2,429,672; Oct. 28.
- Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Resilient car-end buffer. 2,430,494; Nov. 11.
- Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Hand brake. 2,430,495; Nov. 11.
- Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Car end buffer. 2,431,376; Nov. 25.
- Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Railway car-end buffer. 2,431,736; Dec. 2.
- Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Railway car-end buffer. 2,432,729; Dec. 16.
- Datin, Richard C., Petersburg, Va., assignor to The Solvay Process Company, New York, N. Y. Graining ammonium nitrate. 2,416,615; Feb. 25.
- Daub, Rudolph, West Caldwell, N. J. Internal-combustion engine. 2,413,957; Jan. 7.
- Daubaras, Edward, Brooklyn, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Loop antenna system. 2,423,083; July 1.
- Dauber, Joseph: *See—*  
Kaiser, Erwin J., and Dauber.
- Dauenbauer, Florian F., Santa Rosa, Calif. Stationary type hop picking machine. Re. 22,889; June 17.
- Daugherty, George W., Orlando, Fla. Spraying machine. 2,423,008; June 24.
- Daugherty, Jesse, assignor to The Cincinnati Planer Company, Cincinnati, Ohio. Hydraulic table stop. 2,430,760; Nov. 11.
- Daugherty, William E., Covington, Tenn. Vehicle running gear. 2,423,585; July 8.
- Dauncey, Leonard A.: *See—*  
Chirnside, Ralph C., and Dauncey.
- Dauphinee, George S., Brooklyn, assignor to W. B. Connor, New York, N. Y. Ventilating system. 2,432,289; Dec. 9.
- Daussan, Henri J., Metz, France. Steel converter and the like. 2,415,165; Feb. 4.
- Dauster, John F., Wilkensburg, assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Protective headgear. 2,420,937; May 20.
- Davalle, Michael A.: *See—*  
Miller, William P., Davalle, and Dickens.
- Dávalos, Jose J., Guadalajara, Mexico. Liquid level measuring device. 2,419,709; Apr. 20.
- D'Avaucourt, Pierre de Vitry, Bainbridge, Pa., assignor of one-half to W. B. Bailey, Huntington, W. Va. Attachment for lathes. 2,429,710; Oct. 28.
- Daven Company, The, assignee: *See—*  
Doucette, Edmund.
- Davenport, Granger, Montclair, assignor to Gould & Eberhardt, Incorporated, Irvington, N. J. Shaping machine transmission. 2,415,125; Feb. 4.
- Davenport Machine and Foundry Company, assignee: *See—*  
Scherer, Charles F., and Popp.
- Daye, James R., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency-shift radio telegraph transmitting system. 2,424,971; Aug. 5.
- Daye, Peter, White Plains, N. Y. Balance testing. 2,432,730; Dec. 16.
- David, Roger H., St. Paul, Minn. Coated shoe polish stick and coating same. 2,421,246; May 27.
- Davidoff, Charles, New York, N. Y., assignor to M. Swift & Sons, Inc. Electrolytic production of thin metal foil. 2,433,441; Dec. 30.
- Davidson, Alf H., Eau Claire, Wis. Automatic dual tire equalizer. 2,427,445; Sept. 16.
- Davidson, Charles D., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Dual motor control. 2,426,488; Aug. 26.
- Davidson, Donald D.: *See—*  
Jasaitis, Zene V., and Davidson.
- Davidson, Estel D., St. Louis County, Mo. Butchering apparatus. 2,421,547; June 3.
- Davidson, Glenn, Aurora, Ill. Method of and means for making mouthpiece cigarettes. 2,423,554; July 8.
- Davidson, Glenn, Aurora, Ill. Alkali-treating vegetable protein. 2,431,993; Dec. 2.
- Davidson, Hamish M., West Vancouver, British Columbia, Canada. Boat and boat construction. 2,426,729; Sept. 2.
- Davidson, Harold B., U. S. Navy. Salvage device. 2,421,015; May 27.
- Davidson, Harry D.: *See—*  
Morton, Stanley, and Davidson.
- Davidson, Herbert T.: *See—*  
Langford, Cecil T., McKellar, and Davidson.
- Davidson, Herman A., Detroit, Mich., assignor to The Aviation Corporation, New York, N. Y. Counterbalanced door structure. 2,425,365; Aug. 12.
- Davidson Manufacturing Corporation, assignee: *See—*  
Davidson, William W.
- Davidson, Paul B., Wilkensburg, Pa., assignor to Strathmore Paper Company, Springfield, Mass. Tanning of proteins. 2,414,858; Jan. 28.
- Davidson, Vernon D.: *See—*  
Wilson, Milo C., and Davidson.
- Davidson, William A.: *See—*  
Matthew, Jessie R., and Davidson.
- Davidson, William W., Evanston, Ill., assignor to Davidson Manufacturing Corporation. Collator. 2,427,839; Sept. 23.
- Davidson, William W., Evanston, Ill., assignor to Davidson Manufacturing Corporation. Printing press. 2,427,904; Sept. 23.
- Davidsson, Tage A., Edhem, Lerum, Sweden. Signaling device for cycles. 2,416,160; Feb. 18.
- Davies, Charles R.: *See—*  
Weber, John W., and Davies.
- Davies, Drury N. and F. H. Churchman, Feltham, assignors to Cellonoid Limited, Feltham, Middlesex, England. Process and apparatus for extruding. 2,422,953; June 24.
- Davies, Ray L.: *See—*  
Earley, Samuel C. and N. B., Sanders, Skareen, Davies, and Hughes.
- Davies, Richard E.: *See—*  
Magrane, John K., Esterly, and Davies.
- Davies, Richard L., Newtown Square, assignor to Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Making alkali subsulphates. Re. 22,951; Dec. 23.
- Davies, Rowland, Gerrards Cross, assignor to The Metal Box Company Limited, Perrywood, Worcester, England. Apparatus for grinding articles of irregular form. 2,421,548; June 3.
- Davies, Walter R., Shakopee, assignor to Northrup, King & Co., Minneapolis, Minn. Corn husking machine. 2,418,700; Apr. 8.
- Davies, William H., and A. W. Johnson, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. 4-amino-5-arylpyrimidine. 2,418,548; Apr. 8.
- Davis, Alexander D.: *See—*  
Herman, Isidor, and Davis.
- Davis, Archibald H., Washington, D. C. Composite textile strand and fabric. 2,424,743; July 29.
- Davis, Archibald H., Jr., University Heights, assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Mutilated gearing. 2,418,701; Apr. 8.
- Davis, Archibald H., Jr., Cleveland, Ohio, assignor to American Machine and Metals, Inc., East Moline, Ill. Delinting screen. 2,422,825; June 24.
- Davis, Arnold R., Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y. Benzothiazyl disulfide-diarylguanidine derivatives. 2,430,162; Nov. 4.
- Davis, Arthur A., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Belt lifter. 2,418,337; Apr. 1.
- Davis, Arthur C., Burbank, Calif. Coaxial cable device. 2,429,401; Oct. 21.
- Davis, Arthur L., New York, N. Y., assignor to Arma Corporation. Position control system. 2,420,816; May 20.
- Davis, Arthur P., New York, N. Y., assignor to Arma Corporation. Motion reproducing system. 2,421,247; May 27.
- Davis, Arthur P., New York, and G. Agins, assignors to Arma Corporation, Brooklyn, N. Y. Gun firing system. 2,415,126; Feb. 4.
- Davis, Arthur P., Stamford, Conn., and G. Agins, Brooklyn, N. Y., assignors to Arma Corporation. Remote control system. 2,417,588; Mar. 18.
- Davis, Arthur P., Stamford, Conn., and G. Agins, assignors to Arma Corporation, Brooklyn, N. Y. Self-synchronously controlled induction motor follow-up apparatus. 2,420,467; May 13.
- Davis, Arthur P., New York, and G. Agins, Brooklyn, N. Y., assignors to Arma Corporation. Damping device for remote control apparatus. 2,420,523; May 13.
- Davis, Arthur P., Stamford, Conn., and G. Agins, assignors to The Arma Corporation, Brooklyn, N. Y. Remote control apparatus for electric motors. 2,420,817; May 20.
- Davis, Carl K., Detroit, assignor to The Gear Grinding Machine Company, Hamtramck, Mich. One-way clutch. 2,428,962; Oct. 14.
- Davis, Charles C., West Los Angeles, Calif., assignor to Western Electric Company, Incorporated, New York, N. Y. Film driving apparatus. 2,429,995; Nov. 4.
- Davis, Charles H., Jr., East Gadsden, Ala. Joining the ends of rubber tubes. 2,430,630; Nov. 11.
- Davis, Charles S., Jr.: *See—*  
Neumann, George R., Farrell, and Davis.
- Davis, Charles W. V., London, England, assignor to The Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Magnetic cleaning device. 2,415,730; Feb. 11.
- Davis, Clyde O., Woodbury, N. J., W. E. Lawson, Wilmington, Del., and J. L. Ver Bryck, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Cable cutting method and device. 2,415,814; Feb. 18.
- Davis, Dwillard J., Detroit, Mich., assignor to Avco Manufacturing Corporation. Manufacture of propeller blades. 2,429,181; Oct. 14.
- Davis, Elizabeth, Wichita, Kans. Clamping and starting tool for screws or the like. 2,429,345; Oct. 21.



- Davis, Elmer M., St. Paul, Minn., assignor to Industrial Patents Corporation, Chicago, Ill. Process and apparatus for treating poultry. 2,423,299; July 1.
- Davis, Elmer M., St. Paul, Minn., assignor to Industrial Patents Corporation, Chicago, Ill. Washing device. 2,427,840; Sept. 23.
- Davis, Elwood T., Brookline, assignor to Leeds and Northrup Company, Philadelphia, Pa. Control system. 2,424,305; July 22.
- Davis, Emery R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Pad cover. 2,413,750; Jan. 7.
- Davis, Ernest, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Sleeve press. 2,420,818; May 20.
- Davis, Ernest W., River Forest, Ill. Lubricating apparatus. 2,425,515; Aug. 12.
- Davis, Ernest W., River Forest, Ill. Lubricating apparatus. 2,425,867; Aug. 19.
- Davis, Ernest W., River Forest, Ill. Grease gun with a fluid pressure follower. 2,433,506; Dec. 30.
- Davis, Ernest W., River Forest, assignor to Stewart-Warner Corporation, Chicago, Ill. Combination flusher and air filter cleaner. 2,432,290; Dec. 9.
- Davis, Eugene F.: *See*—  
Goehler, Michael, Reimer, and Davis.
- Davis, Floyd E., Gary, Ind. Flying coiler. 2,420,936; May 20.
- Davis, Frank B., Lakewood, assignor to The Lamson & Sessions Company, Cleveland, Ohio. Device for sorting and orienting blanks having portions of different transverse dimensions. 2,433,096; Dec. 23.
- Davis, Frank L., College Point, N. Y. Securing means. 2,429,926; Oct. 28.
- Davis & Geck, Incorporated, assignee: *See*—  
Themak, Edward.
- Davis, Gifford D., South Orange, N. J., and E. J. Barth, Cody, Wyo., assignors to Nopco Chemical Company, Harrison, N. J. Noncorrosive lubricating composition. 2,431,737; Dec. 2.
- Davis, Grant, deceased, Los Angeles, Calif.; M. E. Davis, executrix. Material handling apparatus. 2,427,351; Sept. 16.
- Davis, Harold A., Belleville, Mich. Can key. 2,426,180; Aug. 26.
- Davis, Harold G., Denver, Colo. Spray nozzle. 2,414,723; Jan. 21.
- Davis, Harold G., Brooklyn, N. Y. Calendar stand with memoranda paper supply. 2,422,474; June 17.
- Davis, Harold G., Brooklyn, N. Y. Calendar stand with memoranda paper supply device. 2,425,925; Aug. 19.
- Davis, Harold S.: *See*—  
Morley, Charles E., and Davis.
- Davis, Harold S., Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Refining of crude acrylonitrile. 2,417,635; Mar. 18.
- Davis, Harold S., Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Halogen substituted acrylonitriles as insecticides. 2,433,742; Dec. 30.
- Davis, Harold S., Greenwich, M. Lichtenwalter, Old Greenwich, and J. G. Erickson, Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Sulfatopropionamid and preparation of acrylic acid. 2,425,694; Aug. 12.
- Davis, Harold S., Greenwich, M. Lichtenwalter, Old Greenwich, and W. M. Zeischke, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparing unsaturated amides. 2,431,463; Nov. 25.
- Davis, Harold S., Greenwich, and O. F. Wiedeman, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Stabilization of acrylonitrile. 2,432,511; Dec. 16.
- Davis, Harry A., New Brighton, and A. F. Kroen, Beaver Falls, assignors to Treadwell Construction Company, Midland, Pa. Ingot mold car. 2,433,264; Dec. 23.
- Davis, Harry I., and D. E. Farwell, assignors to Eastman Kodak Company, Rochester, N. Y. Gel-point indicator. 2,423,687; July 8.
- Davis, Herbert L., Walpole, Mass., assignor to The B. F. Goodrich Company, New York, N. Y. Bearing structure for liquids sensitive to coagulation. 2,428,411; Oct. 7.
- Davis, Hugh H.: *See*—  
Kenney, Mahlon W., and Davis.
- Davis, Hyman R., assignor to The Lummus Company, New York, N. Y. Handling of granular material. 2,429,402; Oct. 21.
- Davis, Ira D., Fort Worth, Tex. Nail and tack holder and finger guard. 2,420,869; May 20.
- Davis, James A., assignor, by mesne assignments, to the Battelle Development Corporation, Columbus, Ohio. Grain refinement of aluminum-containing magnesium-base alloys. 2,429,221; Oct. 21.
- Davis, Jessie A., Foundation, assignee: *See*—  
Davis, John H.
- Davis, John B., Palatka, Fla. Trocar. 2,425,277; Aug. 5.
- Davis, John H., Detroit, assignor, by mesne assignments, to Jessie A. Davis Foundation, Royal Oak, Mich. Staggered propeller. 2,432,391; Dec. 9.
- Davis, Joseph W., Bloomington, Ill. Material unloading and conveying mechanism for trucks. 2,419,824; Apr. 24.
- Davis, Kingsbury H., Bernardsville, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic modulation control circuit. 2,432,512; Dec. 16.
- Davis, Mary E., executrix: *See*—  
Davis, Grant.
- Davis, Morton H., New York, N. Y. Folding music stand. 2,424,387; July 22.
- Davis, Oran L., and R. E. Rice, assignors of one-third to A. P. Smekta, Rochester, Minn. Mechanical faucet marker. 2,431,793; Dec. 2.
- Davis, Orris L.: *See*—  
Nixon, Alan C., and Davis.
- Davis, Ralph E., Milwaukee, Wis. Shoe and insole. 2,415,580; Feb. 11.
- Davis, Richard C.: *See*—  
Albert, Walter P., Davis, Gumley, and Holden.
- Davis, Ronald F., assignor to Northwestern Steel and Wire Company, Sterling, Ill. Electric furnace control. 2,419,988; May 6.
- Davis, Russell E., assignor to Hussman-Ligonier Company, St. Louis, Mo. Display refrigerator including controls for the operation thereof. 2,430,329; Nov. 4.
- Davis, Samuel R., assignor to Maryland Plastics, Inc., Federalburg, Md. Mold and method of molding. 2,421,928; June 10.
- Davis & Thompson Company, assignee: *See*—  
Weimer, William H.
- Davis, Wesley J., Los Angeles, Calif. Garbage and refuse disposal unit. 2,429,673; Oct. 28.
- Davis, Willa H., New York, N. Y., assignor to M. B. Lane, Jr., Atlanta, Ga. Overall type garment. 2,425,460; Aug. 12.
- Davis, Zeb F., Candler, N. C. Crosscut saw set. 2,428,655; Oct. 7.
- Davison Chemical Corporation, The, assignee: *See*—  
Gabeler, William H.  
Hobelmann, Rudolph G.  
Shoeld, Mark.
- Davol Rubber Company, assignee: *See*—  
Auzin, John M.
- Davy, Robert E., San Diego, assignor to J. H. Myers, Jr., Grossmont, Calif. Fish stringer. 2,426,298; Aug. 26.
- Dawley, Clarence E.: *See*—  
Arnott, Edward G. F., and Dawley.
- Dawson, Clyde J., Torrance, Calif. Faucet. 2,427,124; Sept. 9.
- Dawson, Edward, New York, N. Y., assignor to Sperry Gyroscope Company, Inc. Hydraulically synchronized servo system control. 2,426,936; Sept. 9.
- Dawson, Fred, West Roxbury, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Shoe pressing apparatus. 2,423,878; July 15.
- Dawson, George A.: *See*—  
Middleton, Edmund B., and Dawson.
- Dawson, John W., West Newton, assignor to Raytheon Manufacturing Company, Newton, Mass. Electrical follow-up motor control system. 2,423,438; July 8.
- Dawson, William L., Lichfield, England, assignor of one-half to J. Frodsham, Los Angeles, Calif. Wheel suspension for vehicles. 2,428,148; Sept. 30.
- Day, Daniel A., Columbus, Ohio. Movable wing structure for airplanes. 2,428,557; Oct. 7.
- Day, Floris W., Massillon, Ohio. Infant's sleeping cover. 2,419,989; May 6.
- Day, Jeremiah C., Lexington, Ky. Foot pad. 2,416,823; Mar. 4.
- Day, Morgan R., North Scituate, assignor to Dewey and Almy Chemical Company, North Cambridge, Mass. Soda lime composition. 2,423,688; July 8.
- Day, Morgan R., North Scituate, assignor to Dewey and Almy Chemical Company, North Cambridge, Mass. Soda lime composition. 2,423,689; July 8.
- Day, Robert E., Detroit, Mich. Two-position controllable pitch propeller. 2,428,308; Sept. 30.
- Day, Roland B., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Alkylation of cyclic hydrocarbons. 2,419,632; Apr. 29.
- Dayton Acme Co., assignee: *See*—  
McMath, Marl.
- Dayton, Carl S., Bridgeport, Conn., assignor to General Electric Company. Dishwashing apparatus. 2,432,291; Dec. 9.
- Dayton Rubber Company, The, assignee: *See*—  
Crosby, Melvin A.  
Freedlander, Abraham L., Waugh, and Kremer.  
Luaces, Enrique L., and Crosby.
- Dayton Rubber Manufacturing Company, assignee: *See*—  
Lindsay, Ralph F., and A. R.
- Dayton Rubber Manufacturing Company, The, assignee: *See*—  
Crosby, Melvin A.  
Luaces, Enrique L.
- Dayton Steel Foundry Company, The, assignee: *See*—  
Walther, George, and Miller.
- De Directie van de Staatsmijnen, assignee: *See*—  
Van Aken, Johannes S. A. J. M.
- Deaderick, James: *See*—  
Thurnauer, Hans, and Deaderick.
- Deady, Emmett F., Arlington, Va., assignor to Engineering and Research Corporation, Riverdale, Md. Disc brake. 2,417,863; Mar. 25.



- Deakin, Gerald, assignor to International Standard Electric Corporation, New York, N. Y. Telecommunication switching system. 2,419,540; Apr. 29.
- Deakin, Gerald, assignor to International Standard Electric Corporation, New York, N. Y. Key-sender for telecommunication systems. 2,428,016; Sept. 30.
- Deakin, Gerald, assignor to International Standard Electric Corporation, New York, N. Y. Ribbon cable and manufacturing same. 2,433,346; Dec. 30.
- Deakin, Gerald, assignor to International Standard Electric Corporation, New York, N. Y. Telecommunication system. 2,433,347; Dec. 30.
- Deakin, Gerald, New York, N. Y., and H. F. Herbig, Madison, N. J., assignors to International Standard Electric Corporation, New York, N. Y. Electric selection controlling circuit. Re. 22,861; Apr. 8.
- Deakin, Gerald, New York, N. Y., and H. F. Herbig, Madison, N. J., assignors to International Standard Electric Corporation, New York, N. Y. Apparatus for phase and synchronism control. 2,426,181; Aug. 26.
- Deal, Harmon B., Glen Ridge, N. J., assignor to Radio Corporation of America. Signaling system. 2,420,232; May 6.
- Deal, Harmon B., Glen Ridge, N. J., assignor to Radio Corporation of America. Electronic counter circuit. 2,432,292; Dec. 9.
- Dean, Albert G.: *See*—  
Dean, Walter B. and A. G. Watter, Michael, and Dean.
- Dean, Albert G., Narberth, assignor to The Budd Company, Philadelphia, Pa. Trap door and step arrangement. 2,415,341; Feb. 4.
- Dean, Albert G., Narberth, assignor to The Budd Company, Philadelphia, Pa. Engine mount. 2,422,397; June 17.
- Dean, Dion K., Rahway, N. J., assignor to Foster Wheeler Corporation, New York, N. Y. Apparatus for deodorization of animal oils and vegetable oils. 2,422,185; June 17.
- Dean, Dion K., Rahway, N. J., assignor to Foster Wheeler Corporation, New York, N. Y. Heater. 2,432,985; Dec. 23.
- Dean, George A., Radburn, N. J., assignor to Curtiss-Wright Corporation. Fan blade and mounting means therefor. 2,425,088; Aug. 5.
- Dean, Walter A., Lakewood, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Mold coating. 2,426,987; Sept. 9.
- Dean, Walter A., Lakewood, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Mold coating. 2,426,988; Sept. 9.
- Dean, Walter B., Narberth, assignor to The Budd Company, Philadelphia, Pa. Drawbar carrier for railroad car coupling mechanism. 2,431,864; Dec. 2.
- Dean, Walter B. and A. G., Narberth, assignors to The Budd Company, Philadelphia, Pa. Diaphragm support for railway cars. 2,415,385; Feb. 4.
- Deans, Frederick E., assignor to The Bentley Engineering Company Limited, Leicester, England. Clutch mechanism of knitting machines. 2,420,524; May 13.
- Dear, Thomas A., assignor of one-half to A. F. Von Soden & Co., Los Angeles, Calif. Overload controlling plug. 2,427,390; Sept. 16.
- Dearborn, Frederick E., Washington, D. C. Cosmetic preparation containing triethanol amine salts of sulfurized fatty acids. 2,427,717; Sept. 23.
- De Atley, Wilbur W.: *See*—  
Harris, Charles R., and De Atley.
- Deauville, Fred: *See*—  
Miller, Dallas A., and Deauville.
- Debacher, Max O., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Polyvinyl acetals plasticized with partial esters of polyhydric alcohols with unsaturated aliphatic acids. 2,433,097; Dec. 23.
- Debacher, Max O., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Polyvinyl acetal resin composition. 2,433,098; Dec. 23.
- De Back, William, assignor to Chisholm-Ryder Company, Incorporated, Niagara Falls, N. Y. Horizontal rotary abrading drum for peeling fruit and vegetables. 2,424,803; July 29.
- Debaugh, Clarence N., Towson, Md. Vacuum producing massage device. 2,433,203; Dec. 23.
- De Bell, George W., Stamford, Conn. Safety socket for tubular lamps. 2,430,602; Nov. 11.
- Debenham, William S., Chicago, Ill., assignor to Carnegie-Illinois Steel Corporation. Apparatus for making basic furnace linings and bottoms. 2,426,673; Sept. 2.
- De Beers, Franklin M., Jr.: *See*—  
Pfeffer, Edward C., Jr., and de Beers, Jr.
- De Bella, Frank, Newark, and T. F. De Bella, Union, N. J. Umbrella ferrule pinning machine. 2,433,204; Dec. 23.
- De Bella, Thomas F.: *See*—  
De Bella, Frank and T. F.
- De Bey, Albert L. G., Aberdeen, Md., assignor to Purdue Research Foundation, West Lafayette, Ind. Variable frequency oscillator. 2,415,467; Feb. 11.
- De Boer, Jan, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Granulated carbon microphone. 2,420,737; May 20.
- De Bra, Donald W.: *See*—  
Reinsch, Earl W., De Bra, and Kunzog.
- De Bra, Donald W., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Composite article and manufacture. 2,424,557; July 29.
- Decca Record Company, Limited, The, assignee: *See*—  
O'Brien, William J.
- Dechau, Edward, Wrens, Ga. Roll truing mechanism for wood planers. 2,432,863; Dec. 16.
- De Cew, Judson A., Mount Vernon, N. Y. Controlling lubricating emulsions. 2,431,657; Nov. 25.
- De Chappedelaine, Jean O., Reading, Pa. Water sport device. 2,416,471; Feb. 25.
- Deck, Elbe W., Plainfield, N. J., assignor to Union Carbide and Carbon Corporation. Heating flame regulation. 2,416,161; Feb. 18.
- Decker, Alonzo G., Baltimore County, Md., assignor to The Black and Decker Manufacturing Company. Sanding pad. 2,417,680; Mar. 18.
- Decker, Elinor W., assignee: *See*—  
Decker, Herman W.
- Decker, Herman W., assignor to E. W. Decker, East Port Chester, Conn. Carriage return mechanism for typewriters. 2,423,586; July 8.
- Decker, Harry L., Ardmore, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Railway car seat with compartment. 2,429,050; Oct. 14.
- Decker, James L., Beverly Hills, Calif. Device for supporting garden hose. 2,413,813; Jan. 7.
- Decker, John B.: *See*—  
McArthur, Herbert A., and Decker.
- Decker, John F., Albany, N. Y. Electrically controlled air valve for carburetors. 2,433,205; Dec. 23.
- De Cordova, Reyes L., Tracy, Calif. Windshield wiper and defroster. 2,416,572; Feb. 25.
- De Craene, Edmond P.: *See*—  
Bassett, Charles H., and De Craene.
- De Curtis, Frank, Queens Village, N. Y. Drill support. 2,416,912; Mar. 4.
- Dedge, Ottomus G., Alma, Ga. Adjustable outlet box support. 2,423,757; July 8.
- Deebel, George F., Dayton, Ohio, assignor to Monsanto Chemical Company. Diallyl ether of 2-butene 1,4, diol. 2,426,863; Sept. 2.
- Deems, Frank E., and A. L. Smith, Birmingham, Ala., assignors to Continental Gin Company. Cotton cleaner. 2,421,483; June 3.
- Deere & Company, assignee: *See*—  
Andrews, Norman F.  
Brown, Theophilus.  
Court, Frank T.  
Ginkel, Fred.  
Johnson, Theodore W.  
Korum, Henry E.  
Lohse, Ora F.  
Martens, Maurice J.  
Neighbour, Leonard B.  
Oehler, William P.  
Silver, Walter H.  
Strandlund, Carl G.  
Walz, Claude W., Rasmussen, and Clausen.  
Walz, Claude W., Rasmussen and Griff.  
White, Charles H.
- Deere, John, Tractor Company, assignee: *See*—  
Johnson, Jay D.
- Deerhake, Franklin M., Schenectady, N. Y., assignor to General Electric Company. Pulse system. 2,416,088; Feb. 18.
- Deering, Roland F.: *See*—  
Doumani, Thomas F., Deery, and McKinnis.
- Deery, Roland: *See*—  
Doumani, Thomas F., Deery, and McKinnis.
- Defiance Machine Works, Inc., assignee: *See*—  
Colwell, Lester V.
- De Filippis, Raymond, Brooklyn, N. Y. Adjustable propeller. 2,415,421; Feb. 11.
- De Florez, Luis, U. S. Navy. Pistol trainer. 2,418,822; Apr. 15.
- Defoe, William H., Carmi, Ill. Sleeve. 2,423,009; June 24.
- De Forest, Alfred V., Marlboro, N. H., assignor to The Baldwin Locomotive Works. Strain measuring and recording apparatus. 2,416,090; Feb. 18.
- De Forest, Alfred V., Marlboro, N. H., assignor to The Baldwin Locomotive Works. Straightening apparatus. 2,426,390; Aug. 26.
- De Forest, Lee, Los Angeles, Calif., assignor to Allen B. Du Mont Laboratories, Inc. Method of and apparatus for determining absolute altitude. 2,421,248; May 27.
- De Forest, Taber, assignor to Magnaflex Corporation, Chicago, Ill. Magnetic inspection. 2,416,824; Mar. 4.
- De Forest's Training, Inc., assignee: *See*—  
Thompson, Orville I.
- De France, Henri, Lyon, France; vested in the Alien Property Custodian. Method and apparatus for the transmission of signals. 2,414,453; Jan. 21.
- De France, Heurl, Lyon, Rhone, France; vested in the Attorney General of the United States. Stable frequency conversion system. 2,420,303; May 13.
- De Frees, Joseph H., assignor to Pennsylvania Furnace and Iron Company, Warren, Pa. Bottom-fill truck tank. 2,423,879; July 15.
- De Geofroy, Louis: *See*—  
Rawlings, Franklin N., and de Geofroy.



- Deger, Thomas E.: *See*—  
Olin, John F., and Deger.  
Wolf, George M., and Deger.
- Degering, Edward F.: *See*—  
Spence, John A., and Degering.
- Gwynn, Bernard H., and Degering.
- De Giers, Clarence A., Forest Hills, assignor to The Liquidometer Corporation, Long Island City, N. Y. Air gun valve mechanism. 2,417,546; Mar. 18.
- De Giers, Clarence A., Forest Hills, and A. Edelman, New York, assignors to The Liquidometer Corporation, Long Island City, N. Y. Pointer return device. 2,425,366; Aug. 12.
- Degnen, William J., Westfield, assignor to The M. W. Kellogg Company, Jersey City, N. J. Catalytic conversion of hydrocarbon oils. 2,417,973; Mar. 25.
- De Good, Maynard J., assignor to Nelson Machine Tool Company, Grand Rapids, Mich. Clutch. 2,430,603; Nov. 11.
- De Graaf, Jacob Engel, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Making ball-bearings. 2,423,880; July 15.
- De Gramont, Armand A. A., Levallois-Perret, assignor to Optique et Precision De Levallois, Levallois-Perret, France. Telescope adjusting device. 2,424,011; July 15.
- De Groote, Melvin, University City, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,417,738; Mar. 18.
- De Groote, Melvin, University City, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,417,739; Mar. 18.
- De Groote, Melvin, University City, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,417,740; Mar. 18.
- De Groote, Melvin, St. Louis, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Oxidized dimer of 9,11-linolo-diricinolein and making same. 2,426,489; Aug. 26.
- De Groote, Melvin, St. Louis, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Hydroxyacetylated and oxidized dimer of 9,11-linolo-diricinolein, and making same. 2,426,490; Aug. 26.
- De Groote, Melvin, University City, and B. Keiser, Webster Groves, assignors to Petrolite Corporation, Ltd., St. Louis, Mo. Composition containing an esterified acidic sulfo-polycarboxy acid fractional ester of an oxyethylated alcoholiform polyhydroxy body. 2,413,814; Jan. 7.
- De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,429,996; Nov. 4.
- De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,429,997; Nov. 4.
- De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,429,998; Nov. 4.
- De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,429,999; Nov. 4.
- De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,430,000; Nov. 4.
- De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,430,001; Nov. 4.
- De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,430,002; Nov. 4.
- De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,430,003; Nov. 4.
- De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Certain dicarboxy acid esters of oxyalkylated polymerized hydroxyamines. 2,430,004; Nov. 4.
- De Haven, Oliver S., Beech Grove, assignor to Vonnegut Moulder Corporation, Indianapolis, Ind. Expanding head for abrasives. 2,432,731; Dec. 16.
- De Havilland Aircraft Company Limited, The, assignee: *See*—  
Halford, Frank B.  
Parkes, John J., and Durbec.
- Dehn, Edward, Klamath Falls, Oreg., assignor to E. Dehn and B. R. Smith, as joint tenants. Bolt-actuated cartridge feeding means for rifles. 2,422,532; June 17.
- Dehmel, Richard C., Summit, N. J. Variable potential integrating device. 2,432,140; Dec. 9.
- Dehmel, Richard C., Summit, N. J. Electromechanical integrating device with inverse feedback. 2,432,141; Dec. 9.
- Dehmel, Richard C., Summit, N. J. Amplifying apparatus. 2,432,142; Dec. 9.
- Dehn, Joseph W.: *See*—  
Busch, Aloysius J., Dehn, and Whitney.
- Dehn, William A., and A. E. Armstrong, assignors to Armstrong Machine Works, Three Rivers, Mich. Thermostat. 2,418,762; Apr. 8.
- Dehydration, Inc., assignee: *See*—  
Birdseye, Clarence.
- Delchmiller, Alwin, Pasadena, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for feeding material. 2,428,698; Oct. 7.
- Deily, Arthur T.: *See*—  
Andrews, Raynal W., and Deily.
- Deily, Arthur T., assignor to Aluminum Company of America, Pittsburgh, Pa. Automatic grab. 2,425,421; Aug. 12.
- Deimel, Albert H.: *See*—  
Peterson, Carl D., Deimel, and Zingsheim.
- Deinet, Joseph, Glassboro, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Oxazole compounds of the atriquinone series. 2,415,937; Feb. 18.
- Deinet, Joseph, Glassboro, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dye-stuffs of the anthraquinone series. 2,415,938; Feb. 18.
- Deitrich, Epily C., Brentwood, Pa., assignor to Carnegie-Illinois Steel Corporation. Automatic stamping hammer. 2,418,165; Apr. 1.
- De Jong, Johan J.: *See*—  
Van der Willigen, Paul C., Kreupeling, and De Jong.
- Dekle, Samuel D., Atlantic Beach, Fla. Engine shaft actuated locomotive valve gear of the suspended eccentric rod type. 2,416,982; Mar. 4.
- De Kurowski, Julian B., London, England. Gravity operated clock. 2,414,288; Jan. 14.
- De la Cierva, Juan, Madrid, Spain, assignor, by mesne assignments, to Autogiro Company of America. Sustaining-rotor-equipped aircraft, including autorotatable rotor construction and the regulation of rotor blade pitch. 2,421,364; May 27.
- De La Mater, Robert G., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Hoop lug. 2,429,454; Oct. 21.
- Delamere, Rudolf D., Toronto, Ontario, Canada. Time-delay device for actuating valves and the like. 2,419,337; Apr. 22.
- De Lancey, Ralph W., assignor to The Miller Company, Meriden, Conn. Method of and apparatus for burning liquid fuel. 2,423,808; July 8.
- De Lancey, Ralph W., assignor to The Miller Company, Meriden, Conn. Ignition means for liquid fuel burners. 2,423,809; July 8.
- De Lancey, Ralph W., assignor to The Miller Company, Meriden, Conn. Fuel control for furnaces. 2,428,867; Oct. 14.
- De Lancey, Ralph W., assignor to The Miller Company, Meriden, Conn. Liquid fuel feeding and burning apparatus. 2,432,143; Dec. 9.
- De Lancey, Warren H., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Fluid pressure motor of the expansible chamber type with piston operated snap action valve. 2,421,318; May 27.
- De Lancey, Warren H., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Pump and air separator unit. 2,423,439; July 8.
- De Lancey, Warren H., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Liquid measuring and dispensing apparatus. 2,427,551; Sept. 16.
- De Lancey, Warren H., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Liquid measuring and dispensing apparatus. 2,427,552; Sept. 16.
- Delaney, Cyril T.: *See*—  
Churchill, John A., Belaieff, and Delaney.
- Delaney, Cyril T., assignee: *See*—  
Belaieff, James F.
- Delaney, John J.: *See*—  
Griffith, Clement P., Pressler, and Delaney.
- De Lange, Owen E., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Time division radar ranging system. 2,426,182; Aug. 26.
- Delano, Howard A., York, Pa., assignor to American Chain & Cable Company, Inc., Bridgeport, Conn. Chain link. 2,421,186; May 27.
- Delano, Richard, Inc., assignee: *See*—  
Delano, William R. P.
- De Lano, Sidney, Los Altos, Calif. Automobile transporting vehicle. 2,432,228; Dec. 9.
- Delano, William R. P., Syosset, assignor to Richard Delano, Inc., Setauket, N. Y. Head gear. 2,418,069; Mar. 25.
- Delano, William R. P., New York, assignor to Richard Delano, Inc., Setauket, N. Y. Humidifier. 2,424,268; July 22.
- Delano, William R. P., New York, N. Y., assignor, by mesne assignments, to American Viscose Corporation, Wilmington, Del. Apparatus for heat sealing. 2,424,558; July 29.
- Delano, William R. P., Syosset, N. Y., assignor to Gal-lowhur Chemical Corporation. Inflatable solar still. 2,427,262; Sept. 9.



- De Lanty, Loren J.: *See*—  
Braddon, Frederick D., De Lanty, and Esval.
- Delany, John J., Brooklyn, N. Y. Flush valve. 2,433,507; Dec. 30.
- De la Roza, Joaquin J., Sr., New York, N. Y. Fluid extracting piston press. 2,427,446; Sept. 16.
- De la Roza, Joaquin J., Sr., New York, N. Y. Self-cleaning fluid extractor for high consistency mixtures. 2,427,662; Sept. 23.
- De Laval Separator Company, The, assignee: *See*—  
Ayres, Donald F.  
Flowers, Alan E.  
Flowers, Alan E., and Merget.  
Scott, Walter A., and Ayres.  
Strezynski, George J.  
Vandewater, Donald B.
- De Laval Steam Turbine Company, assignee: *See*—  
Gartmann, Hans.  
Waller, Carl R.
- De La Vergne, William H.: *See*—  
Donahew, Arthur L., and De La Vergne.
- Delaware Engineering Corporation, assignee: *See*—  
Moore, William E.
- Del Camp, Scipione M., Maywood, assignor to Cinch Manufacturing Corporation, Chicago, Ill. High voltage tube socket. 2,427,991; Sept. 23.
- Del Camp, Scipione M., Maywood, assignor to Cinch Manufacturing Corporation, Chicago, Ill. Electrical connector. 2,432,966; Dec. 16.
- Del Cano, Henry P., Los Angeles, Calif. Device for supporting bicycles on automobile bumpers. 2,432,732; Dec. 16.
- Del Debbio, Bruno, and W. Lister, San Francisco, Calif. Linoleum knife. 2,416,913; Mar. 4.
- Deli, Frank C.: *See*—  
Bauer, Hans A., Deli, and Krajniak.
- Dellinger Manufacturing Company, assignee: *See*—  
Sensenig, Miles L.
- Del Llano, Jose S., assignor of one-fourth to R. M. Ferrer, Habana, Cuba. Closure for nonrefillable containers. 2,420,870; May 20.
- Dellon, Earl, assignor to Paragon Utilities Corp., New York, N. Y. Plumbing fixture and accessory therefor. 2,429,455; Oct. 21.
- Delmonte, John, Glendale, assignor of ten per cent to E. F. Lougee, La Canada, Calif., and sixty-five per cent to Hemphill Company. Low-pressure laminate. 2,419,440; Apr. 22.
- Delmonte, John, Glendale, assignor of one-tenth to E. F. Lougee and sixty-five one hundredths to R. Hamphill, Los Angeles, Calif. Chlorinated furane resin. 2,423,139; July 1.
- Deloghia, Louis E., Agawam, assignor to Perkins Machine and Gear Company, West Springfield, Mass. Protective means for heating furnace fronts. 2,426,084; Aug. 19.
- De Long, Herbert K., assignor to The Dow Chemical Company, Midland, Mich. Surface treatment of magnesium alloys. 2,428,749; Oct. 7.
- Deloraine, Edmond M., and E. Labin, New York, N. Y., assignors to Federal Telephone and Radio Corporation. Radar testing apparatus. 2,421,016; May 27.
- Deloraine, Edmond M., New York, N. Y., and P. R. Adams, Cranford, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y. Communication and guiding system. 2,421,017; May 27.
- Deloraine, Edmond M., and E. Labin, New York, and H. G. Busignies, Forest Hills, assignors to International Standard Electric Corporation, New York, N. Y. Reflected wave direction finder. 2,426,183; Aug. 26.
- Deloraine, Edmond M., and G. J. Lehmann, assignors to Federal Telephone and Radio Corporation, New York, N. Y. Radio guiding system. 2,426,184; Aug. 26.
- Deloraine, Edmond M., New York, and J. L. Fearing, Scarsdale, assignors to Federal Telephone and Radio Corporation, New York, N. Y. Pulse multiplex communication system. 2,429,613; Oct. 28.
- De Lorenzo, Sylvio A.: *See*—  
Poitras, Herman A., Snow, and De Lorenzo.
- Deloye, James J., Neenah, Wis., assignor to International Cellucotton Products Company, Chicago, Ill. Interfolding machine. 2,420,525; May 13.
- Delphos Bending Company, The, assignee: *See*—  
Peltier, Leslie C.
- Del Riccio, Lorenzo, assignor of one-half to K. Allen, Los Angeles, Calif. Photographically recording the order of passage of moving objects. Re. 22,881; May 20.
- Delsole, Joseph H., assignor to Olin Industries, Inc., New Haven, Conn. Extractor-and-breech-bolt assembly for firearms. 2,421,249; May 27.
- Delsoordo, Carlos F., Mexico City, Mexico. Pneumatic device for the manufacture of glued shoes. 2,430,214; Nov. 4.
- Delta Electric Company, assignee: *See*—  
Crimmins, William C.
- De Luca, Gaetano, Brooklyn, N. Y. Shoe and making the same. 2,416,868; Mar. 4.
- De Luca, Joseph, Brooklyn, assignor, by mesne assignments, to William R. Warner & Co., Inc., New York, N. Y. Dispensing apparatus. 2,422,226; June 17.
- Dely, Joseph G., Queens Village, N. Y., assignor to Tennessee Valley Authority. Making a carbon monoxide oxidation catalyst. 2,419,255; Apr. 22.
- Del Zoppo, Menotti, New York, N. Y. Method and apparatus for waving hair. 2,426,343; Aug. 26.
- Demaline, Donald K., Toledo, Ohio. Aircraft landing wheel support. 2,414,859; Jan. 28.
- De Mar, Michael, assignor to J. White, New York, N. Y. Dog's garment. 2,417,803; Mar. 25.
- De Marco, Joseph C., St. Paul, Minn. Portable paint applying device. 2,419,338; Apr. 22.
- De Marco, Louis, assignee: *See*—  
Preneta, Peter A.
- De Marco, Louis, Cleveland, Ohio. Carburetor. 2,430,806; Nov. 11.
- De Marco, Louis, Cleveland, Ohio. Carburetor. 2,430,807; Nov. 11.
- DeMasters, Ben B., Kansas City, Mo., by decree of distribution, assignor to J. M. DeMasters. Measuring stick coupler. 2,429,871; Oct. 28.
- DeMasters, Josephine M., assignee, by decree of distribution: *See*—  
DeMasters, Ben B.
- Demb, Kenneth, Salem, and M. L. Hayes, Beverly, assignors to Sylvania Electric Products Inc., Salem, Mass. Apparatus for coating fluorescent lamp. 2,431,658; Nov. 25.
- De Merritt, Roger F., Newburyport, assignor to Sylvania Electric Products Inc., Salem, Mass. Fixture for gaseous discharge lamps. 2,432,392; Dec. 9.
- De Mers, Edward F.: *See*—  
Goldberg, Harold, and De Mers.
- Demeulenaere, Marcel, Brussels, Belgium; vested in the Attorney General of the United States. Register selecting mechanism. 2,422,186; June 17.
- Demeulenaere, Marcel and R., New York, N. Y. Automatic dial operator. 2,426,600; Sept. 2.
- Demeulenaere, Robert: *See*—  
Demeulenaere, Marcel and R.
- Deming Company, The, assignee: *See*—  
Mueller, Alexander V.  
Samelson, Bernard.
- Deming, Earl R.: *See*—  
Corey, Clement P., and Deming.
- Deming, George M., Orange, N. J., assignor to Air Reduction Company, Incorporated. Thermochemically cutting metal. 2,415,815; Feb. 18.
- Deming, George M., Orange, N. J., assignor to Air Reduction Company, Incorporated. Motor governor. 2,420,360; May 13.
- De Moore, Eugene W., New York, N. Y. Shell separator for semified ammunition. 2,417,457; Mar. 18.
- De Mott, Armand, Fords, assignor to Amity Foundry and Machine Co., Inc., Perth Amboy, N. J. Article ejecting device. 2,432,561; Dec. 16.
- Dempsey, Jack T., Baton Rouge, La. Combined comb and hair curler. 2,431,865; Dec. 2.
- Dempsey, Michael J., and F. W. Reher, assignors to Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Multiple-mold rotary casting apparatus. 2,433,032; Dec. 23.
- Dempster Brothers, Incorporated, assignee: *See*—  
Bamberg, Paul E.
- Denault, Clinton L., Sharpville, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Motor plugging brake. 2,424,306; July 22.
- Denault, Clinton L., Sharpville, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,425,147; Aug. 5.
- Denault, Clinton L., Sharpville, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Safety mechanism. 2,426,001; Aug. 19.
- Den Besten, Cornelius: *See*—  
Den Besten, Gerrit and C.
- Den Besten, Gerrit, Newton, Iowa, and C. Den Besten, Corsica, S. Dak. Fifth wheel. 2,426,002; Aug. 19.
- De Neergaard, Leif E., New York, N. Y., assignor, by mesne assignments, to Actrol Incorporated. Automatic control of machine tools and fabricating devices. 2,423,440; July 8.
- Den Hertog, Martinus: *See*—  
Simon, Stephane, Kruithof, and den Hertog.
- Den Hertog, Martinus, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y. Alternative routing telephone system. 2,431,313; Nov. 25.
- Den Hertog, Martinus, Antwerp, Belgium, and E. P. G. Wright, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Telecommunication system employing voice frequency current for selective signaling. 2,423,084; July 1.
- De Niederhäusern, George, and E. Tschan, assignors to the Swiss firm of Durand & Huguenin A. G., Basel, Switzerland. Printing process for the fixation of chrome mordant dyestuffs. 2,416,382; Feb. 25.
- Denison Engineering Company, The, assignee: *See*—  
Wright, Fred J.
- Denison, William C., Jr., Delaware, Ohio. Hydraulic apparatus. 2,427,591; Sept. 16.
- Dennedy, James H.: *See*—  
Richard, William E., and Dennedy.
- Denneen, Francis S., Cleveland, and W. C. Dunn, Shaker Heights, assignors to The Ohio Crankshaft Company, Cleveland, Ohio. Controlling inductive heating. 2,414,141; Jan. 14.



- Denneen, Francis S., Cleveland, and W. C. Dunn, Shaker Heights, assignors to The Ohio Crankshaft Company, Cleveland, Ohio. Continuous heat treating. 2,414,362; Jan. 14.
- Denneen, Francis S., Cleveland, and W. C. Dunn, Shaker Heights, assignors to The Ohio Crankshaft Company, Cleveland, Ohio. Differential heat treating. 2,430,005; Nov. 4.
- Dennie, Edward B., North Hollywood, Calif. Container handling apparatus. 2,423,441; July 8.
- Denning, Paul S., assignor to F. E. Schundler & Co., Inc., Joliet, Ill. Manufacture of magnesia products. 2,433,265; Dec. 23.
- Dennis, Robert N., Pelham Manor, N. Y. Transparent picture viewer. 2,419,339; Apr. 22.
- Dennis, Wolcott, Darien, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Expansion engine. 2,413,751; Jan. 7.
- Dennis, Wolcott, Darien, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Separation of the constituents of gaseous mixtures. 2,413,752; Jan. 7.
- Dennis, Wolcott, Stamford, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Separation of the constituents of gaseous mixtures. 2,431,866; Dec. 2.
- Dennis, Wolcott, Stamford, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Separation of the constituents of gaseous mixtures. 2,433,508; Dec. 30.
- Dennis, Wolcott, Darien, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Separation of the constituents of gaseous mixtures. 2,433,604; Dec. 30.
- Dennison, Ernest A., Goodworth, Clatford, Andover, assignor to Kennedy and Kempe Limited, Longparish, Andover, England. Nonskid device. 2,420,361; May 13.
- Dennison Manufacturing Company, assignee: *See*—Asnes, Benjamin.
- Denny, Harold G., and Peterson.
- Denny, Joseph G., Jr., assignee: *See*—Pratt, William B.
- Denny, Patrick W., Runcorn, England, assignor to Imperial Chemical Industries Limited. Manufacture of polymerization products. 2,414,934; Jan. 28.
- De Normanville, Edgar J., Hatch End, England. Control means for variable speed vehicle driving mechanisms. 2,433,099; Dec. 23.
- Dent, Hettie, assignee: *See*—Wolf, Joachim.
- Dent, Wallace R., Chicago, Ill. Welder's heat guard. 2,424,437; July 22.
- Dentists' Supply Company of New York, assignee: *See*—Saffir, Jacob A.
- Denton, Harvey R., Oakland, assignor to Moist-R-Proof Container Co., San Francisco, Calif. Molded fibrous pulp container having closure securing means. 2,418,248; Apr. 1.
- Denton, Harvey R., assignor to Moist-R-Proof Container Co., San Francisco, Calif. Machine for making bags. 2,428,837; Oct. 14.
- Denton, John J.: *See*—Goulding, John P., Parker, and Denton.
- Denton, William I.: *See*—Krieble, Robert H., and Denton.
- Denton, William I., Woodbury, R. B. Bishop, Haddonfield, and E. M. Nygaard, Woodbury, N. J., and T. T. Noland, Richmond, Ky., assignors to Socony-Vacuum Oil Company, Incorporated. Preparation of polynitroparaffins. 2,425,367; Aug. 12.
- Denys, Orban, Brooklyn, assignor to Distillation Products, Inc., Rochester, N. Y. Vacuum distillation with circulation of gas. 2,427,718; Sept. 23.
- Denysen, Ivanhoe P., Yeadon, and R. W. Stanley, Drexel Hill, Pa., assignors to American Viscose Corporation, Wilmington, Del. Cleaning and washing machine. 2,417,241; Mar. 11.
- Denzler, Felix F., Pomona, Calif. Alarm system. 2,426,085; Aug. 19.
- De Otto, Joseph R.: *See*—Burton, Reed H., Herman, and De Otto.
- De Palma, Anthony, Greece, and P. Syracuse, Rochester, N. Y. Gravity conveying chute and controlling mechanism. 2,431,791; Dec. 2.
- Dependable Manufacturing Company, assignee: *See*—Vitek, Charles.
- De Permentier, Paul R., Casablanca, Morocco. Thermostatically controlled firearm cooling system. 2,428,359; Oct. 7.
- Depew, Charles, Oakland, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ionic discharge device. 2,432,513; Dec. 16.
- Depew, Charles, Oakland, N. J., W. A. Depp, Elmhurst, A. N. Luce, Port Washington, N. Y., and J. R. Haynes, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ionic discharge device. 2,415,816; Feb. 18.
- Depew, Charles, Oakland, N. J., W. A. Depp, Elmhurst, and A. N. Luce, Port Washington, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Spark gap discharge device. 2,422,659; June 24.
- De Pew, Chester C., assignor to Fairchild Engine and Airplane Corporation, Farmingdale, N. Y. Engine cylinder construction. 2,426,438; Aug. 26.
- Depp, Marlin C., Hempstead, and C. F. Fragola, East Hempstead, N. Y., assignors to Sperry Gyroscope Company, Inc. Adjustable flux valve. 2,432,514; Dec. 16.
- Depp, Wallace A.: *See*—Depew, Charles, Depp, and Luce.
- Depew, Charles, Depp, Luce, and Haynes.
- Depp, Wallace A., Elmhurst, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cathode-ray oscilloscope circuit. 2,416,290; Feb. 25.
- De Puydt, Frank A., Des Moines, Iowa. Filter with temperature control means. 2,428,486; Oct. 7.
- Dequick, Henry J., assignor to Illinois Lock Company, Chicago, Ill. Lock. 2,430,391; Nov. 4.
- Derby, Harold K., Berkeley, assignor to F. E. Booth Company, Inc., San Francisco, Calif. Making dehydrated fruits and vegetables. 2,415,995; Feb. 18.
- Derby, John H., Scarsdale, N. Y. Thermostatic fire detector. 2,428,838; Oct. 14.
- Derby, Richard I.: *See*—Hutchinson, Willis S., and Derby.
- De Reamer, William J., Crown Point, assignor to Mapes Consolidated Manufacturing Company, Griffith, Ind. Molded pulp cushion pad. 2,414,724; Jan. 21.
- Derfler, Frank, East St. Louis, Ill., assignor to Aluminum Company of America, Pittsburgh, Pa. Agglomerating device. 2,413,693; Jan. 7.
- Derman, Harry, Great Neck, N. Y. Tripanelled collapsible wardrobe. 2,433,100; Dec. 23.
- Der Mateosian, Edward, and M. McKeown, Washington, D. C. Geiger-Mueller tube. 2,427,663; Sept. 23.
- Dermond, Lawrence C.: *See*—Jorgensen, Clarence H., and Dermond.
- Dern, Frank F., Jr., Willow Grove, and A. J. Williams, Jr., assignors to Leeds and Northrup Company, Philadelphia, Pa. Compensating means for dimensional changes in recorder charts. 2,432,229; Dec. 9.
- De Roda, Nicanor P., Somerville, N. J. Kite. 2,419,441; Apr. 22.
- De Rosa, Louis A., Staten Island, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Control circuits. 2,414,454; Jan. 21.
- De Rosa, Louis A., Staten Island, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Synchronizing system. 2,418,112; Apr. 1.
- De Rosa, Louis A., Staten Island, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Distance indicating detection system. 2,419,541; Apr. 29.
- De Rosa, Louis A., Staten Island, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Radio detection system. 2,421,018; May 27.
- De Rosa, Louis A., West Brighton, Staten Island, assignor to Federal Telephone and Radio Corporation, Newark, N. J. Delay device. 2,423,085; July 1.
- De Rosa, Louis A., Staten Island, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Radio detection system. 2,426,989; Sept. 9.
- De Rose, John P., Albany, Calif. Adjustable seat support. 2,429,017; Oct. 14.
- Derr, Willard A., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system and telemetering circuit. 2,420,871; May 20.
- Derryberry, Benjamin F., Lewisburg, Tenn. Dipping board. 2,415,127; Feb. 4.
- De Rugeris, John, Atlantic City, assignor of one-half to J. Budnick, Pleasantville, N. J. Crash marker. 2,418,549; Apr. 8.
- Derungs, Ernest A., Le Locle, Switzerland. Braking device regulated by motor speed and load. 2,421,187; May 27.
- Derungs, Ernest A., Le Locle, Switzerland. Transmission control device. 2,421,188; May 27.
- De Ryder, Herbert, Bloomfield, N. J., assignor to Radio Corporation of America. System for producing a single non-repetitive scanning trace. 2,415,870; Feb. 18.
- De Sanders, Neil J., Jr., Dallas, Tex. Jettison tank. 2,427,352; Sept. 16.
- De Sanno, Albert P., Jr., Valley Forge, Pa. Coated abrasive strip holder. 2,427,090; Sept. 9.
- Desch, Joseph R., Oakwood, and R. E. Mumma, assignor to The National Cash Register Company, Dayton, Ohio. Electronic device. 2,419,485; Apr. 22.
- Desch, Joseph R., E. V. Gulden, and R. E. Mumma, assignors to The National Cash Register Company, Dayton, Ohio. Communication system. 2,425,307; Aug. 12.
- Desch, Joseph R., and R. E. Mumma, assignors to The National Cash Register Company, Dayton, Ohio. Multi-anode, gas-filled discharge device. 2,432,608; Dec. 16.
- Deschamps, Desire J., Rutherford, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Pump. 2,429,403; Oct. 21.
- Deschamps, Desire J., Rutherford, N. J., assignor to Deschamps Fuel Injection Corporation, New York, N. Y. Fuel injection pump. 2,429,806; Oct. 28.
- Deschamps, Desire J., Rutherford, N. J., assignor to Deschamps Fuel Injection Corporation, New York, N. Y. Variable capacity pump. 2,431,686; Dec. 2.
- Deschamps Fuel Injection Corporation, assignee: *See*—Deschamps, Desire J.
- De Sessa, Daniel, assignee, et al.: *See*—Warren, Lucille P.
- De Sherbinin, William N., Mount Kisco, N. Y. Toy block. 2,425,729; Aug. 19.



- De Sherbinin, William N., Mount Kisco, N. Y. Film file. 2,432,515; Dec. 16.
- Design Service, Inc., assignee: *See*—  
Elphée, Leon E.
- Designers for Industry, Inc., assignee: *See*—  
Papay, Charles R.  
Paul, William M.
- De Sino, Martin, Chicago, Ill., and F. M. McMillan, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Vapor phase isomerization of hydrocarbons. 2,415,061; Jan. 28.
- Deslmoné, Anthony J., Lyndhurst, assignor to Columbia Protektosite Company, Inc., Carlstadt, N. J. Apparatus for molding wire core temples. 2,418,823; Apr. 15.
- Despo Manufacturing Co. Limited, assignee: *See*—  
Bergstein, Gerson K.
- Desrosiers, Zénon, Quebec, Quebec, Canada. Shoe tree. 2,417,589; Mar. 18.
- D'Essen, Charles E., New York, N. Y. Dental articulator. 2,418,824; Apr. 15.
- De Stefano, John, Jackson Heights, N. Y. Portable sea water still. 2,420,819; May 20.
- De Swart, Jan, Los Angeles, Calif., assignor, by mesne assignments, to Shellmar Products Corporation, Mount Vernon, Ohio. Lipstick holder. 2,417,155; Mar. 11.
- De Swart, Jan, Los Angeles, Calif., assignor, by mesne assignments, to Shellmar Products Corporation, Mount Vernon, Ohio. Lipstick holder. 2,421,250; May 27.
- De Swart, Jan, Los Angeles, Calif., assignor, by mesne assignments, to Shellmar Products Corporation, Mount Vernon, Ohio. Flush rivet. 2,424,602; July 29.
- De Swart, Jan, Los Angeles, Calif., assignor to Shellmar Products Corporation, Mount Vernon, Ohio. Pass-through insulator. 2,424,804; July 29.
- Detling, Kenneth D.: *See*—  
Peterson, Walter H., and Detling.
- Detroit Edison Company, The, assignee: *See*—  
Matthews, George A.
- Detroit Lubricator Company, assignee: *See*—  
Carter, Franklin Y.  
Dillman, Earnest J.  
Dillman, Earnest J., and Fleury.  
Foulds, Andrew K.  
Landon, Walter S.
- Detwiler, George T., Chester, M. P. Kulp, Linwood, S. A. Moss, Jr., Ridley Park, and H. D. Merion, West Chester, Pa., assignors to American Viscose Corporation, Wilmington, Del. Methods and apparatus for spinning synthetic shapes. 2,416,291; Feb. 25.
- Detwiler, Harold P., Fort Monroe, Va., assignor to The United States of America as represented by the Secretary of War. Circuit closer. 2,415,086; Feb. 4.
- Deuchler, Philip G., Snyder, assignor to Certain-teed Products Corporation, New York, N. Y. Apparatus for producing fiber from vegetable growth materials. 2,427,495; Sept. 16.
- Deutsch, Fritz Albert, Caracas, Venezuela. Apparatus for the extraction of a kernel or kernels from nuts. 2,424,022; July 15.
- Deutsch, Irving, Jamaica, assignor of one-fifth to I. M. Maron, Mount Vernon, N. Y. Combination clothes and dish washing machine. 2,416,616; Feb. 25.
- Devaux, Lucien, Lyon, France, assignor to International Standard Electric Corporation, New York, N. Y. Synchronizing device. 2,423,086; July 1.
- Devaux, Lucien, Lyon, France, assignor to International Standard Electric Corporation, New York, N. Y. Printing telegraph system controlled by vibrations of tuning forks. 2,431,314; Nov. 25.
- Devaux, Lucien, Boulogne-Billancourt, France, assignor to International Standard Electric Corporation, New York, N. Y. Remote control system. 2,428,017; Sept. 30.
- Developers Corporation, assignee: *See*—  
Goldbert, Max L.
- Dever, James A.: *See*—  
Waldeck, Christ L., and Dever.
- Dever, Otto E., Burbank, Calif. Motor wheel. 2,430,163; Nov. 4.
- De Verter, Paul L., Baytown, Tex., assignor to Standard Oil Development Company. Stabilization of motor fuels. 2,433,033; Dec. 23.
- De Vigier, William A., Northwood, England. Adjustable centering and like supports. 2,415,236; Feb. 4.
- De Vilbiss Company, The, assignee: *See*—  
Roselund, Harold A.
- De Vilbiss, John A., St. Marys, assignor to Rockhurst College, Kansas City, Mo. Apparatus for cooling air by liquid contact. 2,430,110; Nov. 4.
- De Villiers, Charente P. R., Tokai, Cape Town, Cape Province, Union of South Africa. Apparatus for the hydraulic transmission of power. 2,419,059; Apr. 15.
- Devine, J. E., assignee, et al.: *See*—  
Ellis, Clarence M.
- De Virgiliis, Richard, Detroit, Mich. Illuminated mirror. 2,414,223; Jan. 14.
- De Vita, Alberto, Buenos Aires, Argentina. Artificial creation of accumulations of subterranean courses of water. 2,426,730; Sept. 2.
- De Vlieg, Charles B., Birmingham, Mich., assignor to Vane Wheel Company, Cleveland, Ohio. Method of and machine for grinding. 2,422,475; June 17.
- Devos & Reynolds Company, Inc., assignee: *See*—  
Neville, Harvey A., and Harris.  
Rheinbeck, Alfred E., and Creelius.  
Scott, Lawrence K.
- De Vore, Henry B., Grover's Mill, N. J., assignor to Radio Corporation of America. Magnetron. 2,415,470; Feb. 11.
- De Vore, Weber: *See*—  
D'Ardenne, Walter H. D., Meinel, de Vore, and Wolf.
- Devorss, Joseph W., Jr., Scarsdale, assignor to United States Rubber Company, New York, N. Y. Resilient mounting. 2,430,709; Nov. 11.
- De Vriendt, Charles, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y. Impulse signal transmission system. 2,423,087; July 1.
- De Vriendt, Charles, and C. De Zeeuw, Antwerp, Belgium, assignors to International Standard Electric Corporation, New York, N. Y. Electrical signalling system with remote control. 2,423,077; July 1.
- De Vry Corporation, assignee: *See*—  
Ress, Thomas I.  
Schramka, Bernard.
- Dew, Adrian O., Jr., Knoxville, Tenn. Gun cleaner or the like. 2,430,164; Nov. 4.
- De Wald, William E., Chicago, Ill. Fastening apparatus. 2,425,031; Aug. 5.
- De Walt, Kenneth C., Schenectady, N. Y., assignor to General Electric Company. High-frequency magnetron. 2,424,805; July 29.
- De Walt, Stuard, Leavenworth, Kans. Saw-tooth gage and jointer. 2,420,468; May 13.
- Dewan, Leon, assignor of one-half to P. W. Andrews, New York, N. Y. Hysterisis motor. 2,429,807; Oct. 28.
- Dewas, Raymond, Amiens, France. Device for stretching the selvage threads on looms. 2,433,101; Dec. 23.
- De Weese, Joseph C.: *See*—  
Gray, Reid B., and De Weese.
- De Welles, Roy W., Kansas City, Mo. Colon therapy apparatus. 2,420,586; May 13.
- Dewey and Almy Chemical Company, assignee: *See*—  
Day, Morgan R.  
Egan, Charles H., Leydon, and Fahey.  
Mark, Jacob G.  
Mark, Jacob G., and Rubinstein.
- Dewey, Clarence L., Elkhart, Ind. Metallic drawer cabinet. 2,414,095; Jan. 14.
- De Witt, Elvin D., San Juan Bautista, Calif. Caster wheel assembly for tractors. 2,425,516; Aug. 12.
- De Woody, Charles M., assignor to Ace Glass Incorporated, Vineland, N. J. Container for aseptic filling and dispensing of sterile liquids. 2,415,871; Feb. 18.
- Dexter, C. H., & Sons, Inc., assignee: *See*—  
Osborne, Fay H.
- Dexter Folder Company, assignee: *See*—  
Williams, Leo C.
- Dextone Company, The, assignee: *See*—  
Falco, Louis A.
- Deye, Erwin G., assignor to The Quality Engraving & Electrolyte Company, Cincinnati, Ohio. Manufacture of composite metal moulds for electrotyping. 2,433,653; Dec. 30.
- Deyrup, Alden J., Westfield, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Enamel for resistors. 2,425,032; Aug. 5.
- De Zeeuw, Constant: *See*—  
De Vriendt, Charles, and De Zeeuw.
- Dhein, Leonard H.: *See*—  
Kuh, Erwin, Dhein, and Ebel.
- Diagraph-Bradley Stencil Machine Corporation, assignee: *See*—  
Magann, Merritt W., and McElvain.
- Dial Light Co. of America, Inc., assignee: *See*—  
Foreman, Paul.
- Diamond, Blaise L., Detroit, Mich., assignor to Tyson Bearing Corporation, Massillon, Ohio. Pneumatic gaging machine for selecting rolls according to size. 2,421,484; June 3.
- Diamond Chain and Manufacturing Company, assignee: *See*—  
Focke, Arthur E. and Mize.  
Wolfe, Russell G.
- Diamond, Hyman, Berkeley, assignor to Shell Development Company, San Francisco, Calif. Compounded lubricating oil. 2,427,766; Sept. 23.
- Diamond, Thomas L., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Scanning system. 2,414,096; Jan. 14.
- D'Ianni, James D., assignor to Wingfoot Corporation, Akron, Ohio. Nitrile copolymers. 2,429,018; Oct. 14.
- Diaphragm & Chemical Company, assignee: *See*—  
Waterbury, Carl C.
- Diard, Ray, Priest River, Idaho. Logging trailer. 2,413,910; Jan. 7.
- Diaz-Compain, Jerónimo, Central Senado, Cuba. Recovery of juices from sugar muds. 2,431,634; Nov. 25.
- Diaz, Pascual M., San Antonio, Tex. Fluid drive or transmission. 2,425,089; Aug. 5.
- Dibrell, Fennell, Jr.: *See*—  
Dibrell, James W., and Dibrell.
- Dibrell, James W., Coleman, and F. Dibrell, Jr., Arlington, Tex. System for transforming and converting electric power. 2,431,994; Dec. 2.



- Dice, Harold E., Canton, Ohio. Reflector skullcap. 2,431,169; Nov. 18.
- Dichter, Morris, Brooklyn, assignor to Film Crafts Engineering Co., New York, N. Y. Telescopic mast. 2,427,841; Sept. 23.
- Dichter, Morris, Brooklyn, assignor to Film Crafts Engineering Co., New York, N. Y. Phase indicator. 2,431,794; Dec. 2.
- Dick, A. B., Company, assignee: *See*—Cochran, Theodore R.
- Dick, Burns, Ferguson, assignor to Wagner Electric Corporation, St. Louis, Mo. Seal construction. 2,424,225; July 22.
- Dick, M. Everett, assignor to Buss Machine Works, Holland, Mich. Shearing bar for planing machines. 2,432,190; Dec. 9.
- Dicke, Oscar H.: *See*—Scheg, Marcian A., and Dicke.
- Dicken, Paul and R., Dysart, Iowa. Face and neck protector for hair dryers. 2,424,744; July 29.
- Dicken, Ruth: *See*—Dicken, Paul and R.
- Dickens, La Verne, Montour Falls, assignor of fifty per cent to J. E. Osborne, Elmira, N. Y. Electric safety centering device. 2,433,743; Dec. 30.
- Dickens, Virgil E.: *See*—Miller, William P., Davalle, and Dickens.
- Dickenson, John G., Toronto, Ontario, Canada. Device for splitting diamond drill cores. 2,426,344; Aug. 26.
- Dickerman, Fred N., Nichols, assignor to United Aircraft Corporation, East Hartford, Conn. Gun turret swivel. 2,424,650; July 29.
- Dickerman, Gilbert R., and R. W. Riley, assignors to Consolidated Water Power & Paper Company, Wisconsin Rapids, Wis. Coating paper and composition therefor. 2,425,231; Aug. 5.
- Dickerman, Harry K., assignor to F. N. Burt Company, Inc., Buffalo, N. Y. Paper powder can. 2,420,738; May 20.
- Dickerson, Charles E., Philadelphia, Pa. Spring wheel. 2,423,690; July 8.
- Dickey, Edwin L., New Castle, Del. Pocket closing device. 2,427,553; Sept. 16.
- Dickey, Frank H.: *See*—Rust, Frederick F., and Dickey.
- Dickey, Joseph B.: *See*—McNally, James G., and Dickey.
- Dickey, Joseph B., Rochester, N. Y., and J. G. McNally, Oak Ridge, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Method of preparing sulfoalkyl ethers of cellulose. 2,422,000; June 10.
- Dickey, Joseph B., and J. G. McNally, assignors to Eastman Kodak Company, Rochester, N. Y. Monoazo compounds containing a CF<sub>3</sub> group. 2,432,393; Dec. 9.
- Dickey, Joseph B., Rochester, N. Y., and C. G. Stuckwisch, Wichita, Kans., assignors to Eastman Kodak Company, Rochester, N. Y. 1-acyloxy-2-alkylbutadiene-1,3 compounds. 2,432,394; Dec. 9.
- Dickey, Paul S.: *See*—Bailey, Ervin G., and Dickey.
- Dickinson, Arthur H., Scarsdale, assignor to International Business Machines Corporation, New York, N. Y. Gas-filled tube type of relaxation oscillator system. 2,428,617; Oct. 7.
- Dickinson, Arthur H., Scarsdale, and J. N. Wheeler, Hawthorne, assignors to International Business Machines Corporation, New York, N. Y. Relay type cross-totalizing device for record card data. 2,420,167; May 6.
- Dickinson, Berton C.: *See*—Ruthruff, Robert F., Grummitt, and Dickinson.
- Dickinson, Edna V., assignee, et al.: *See*—Bruen, George C.
- Dickinson, Harold O.: *See*—Collins, Ronald B., and Dickinson.
- Dickinson, Robert C.: *See*—Baker, Benjamin P., and Dickinson.
- Dickno, Alexander, Fullerton, assignor to Blossom Products Corporation, Allentown, Pa. Releasable roll take-up device for knitting machines. 2,429,674; Oct. 28.
- Dicks, Clarence O., Detroit, Mich. Combined stencil sheet and liner. 2,427,447; Sept. 16.
- Dickson, James T., Los Angeles, Calif. Fluid actuated brake. 2,417,156; Mar. 11.
- Dickson, Ross O., Mexico City, Mexico. Artificial teeth. 2,416,983; Mar. 4.
- Dickson, Thomas A., assignor to Colorado Iron Works Company, Denver, Colo. Spiral conveyor classifier. 2,428,789; Oct. 14.
- Dickson, William F., St. Louis, Mo. Broom holder. 2,422,891; June 24.
- Dickten, Emil, Jr., Totowa, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Alternating current relays. 2,416,681; Mar. 4.
- Dictaphone Corporation, assignee: *See*—Frederick, Carl L., and Curtis.
- Norton, Leland D.
- Diebold, Incorporated, assignee: *See*—Miller, Karl H.
- Diehl, Walter S., U. S. Navy, Washington, D. C. Articulated balance for aircraft controls. 2,421,374; June 3.
- Diem, Donald T., Saginaw, Mich. Spent bullet trap. 2,420,304; May 13.
- Diener, John A., assignee: *See*—Tornquist, Earl L.
- Diepstraten, Gerardus A. M.: *See*—Pressel, Otto, and Diepstraten.
- Dierichs, Alfred, Leverkusen-Wiesdorf, Germany; vested in the Alien Property Custodian. Recovery of extraction agents for phenolic compounds. 2,415,087; Feb. 4.
- Dieringer, Henry W., assignee: *See*—Vandersee, Arnold E.
- Diesel Filter Co., assignee: *See*—Sager, Victor.
- Dieterle, Edward A., Glen Ellyn, assignor to The Bastian-Blessing Company, Chicago, Ill. Fuel gas dispensing system. 2,433,744; Dec. 30.
- Dieter, Harry W., and C. M. King, Detroit, Mich., assignors to M. F. Hasler and R. W. Lindhurst, co-partners, doing business as Applied Research Laboratories, Glendale, Calif. Generating radiant energy for spectrum analysis. 2,414,363; Jan. 14.
- Dieter, Harry W., and R. L. Doelman, Detroit, Mich.; said Doelman assignor to said Dieter. Molding material gas determinator. 2,414,364; Jan. 14.
- Dietrich, Melvin A., Claymont, and J. E. Kirby, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymeric materials. 2,414,028; Jan. 7.
- Dietrich, Michael, assignor to Eastman Kodak Company, Rochester, N. Y. Self-threading device for projectors. 2,420,587; May 13.
- Dietz, Harry F.: *See*—Guy, Hubert G., and Dietz.
- Dietz, Karl, Kronberg in Taunus, Germany; vested in the Attorney General of the United States. Preparing cement powders and acidproof mortars. 2,425,976; Aug. 19.
- Diesel, Willy, Fairfield, assignor to The Max Ams Machine Company, Bridgeport, Conn. Can cover lining machine. 2,418,400; Apr. 1.
- Di Filippo, Abramo, Silver Spring, Md. Heat storing and dissipating apparatus for furnaces. 2,419,710; Apr. 29.
- Di Frasso, Dorothy, assignee: *See*—Bonotto, Michele.
- Di Gesare, Samuel A., Buffalo, N. Y. Covering for the board of ironing tables. 2,418,969; Apr. 15.
- Di Giovanni, Joseph, Fairview, N. J., assignor to United Elevator Service, Inc., New York, N. Y. Elevator car door control mechanism. 2,432,293; Dec. 9.
- Di Ianni, Emanuel, Norristown, Pa. Garment fastening device. Re. 22,888; June 10.
- Dijkstra, Simon A., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., trustee. Low-frequency amplifier circuits. 2,417,296; Mar. 11.
- Dilks, James J., Jr., Haddon Heights, N. J. Recorder and reproducer for spiral photographic disk sound records. 2,422,398; June 17.
- Dill Manufacturing Company, The, assignee: *See*—Crowley, John C.
- Dill, Uland S., Twin Falls, Idaho. Portable power-driven timber and log sawing machine. 2,432,562; Dec. 16.
- Dilley, Donald C., Cleveland, and R. R. McGregor, South Euclid, assignors to The Lindsay Wire Weaving Company, Cleveland, Ohio. Seam for woven wire belts and making the same. 2,414,935; Jan. 28.
- Dilley, Donald C., Cleveland, and R. R. McGregor, South Euclid, assignors to The Lindsay Wire Weaving Company, Cleveland, Ohio. Seam for woven wire fabric. 2,421,601; June 3.
- Dillman, Earnest J., assignor to Detroit Lubricator Company, Detroit, Mich. Pressure regulated electrical control. 2,422,342; June 17.
- Dillman, Earnest J., and J. E. Fleury, assignors to Detroit Lubricator Company, Detroit, Mich. Control device for switches or the like. 2,422,292; June 17.
- Dillon, Harry R., Niagara Falls, N. Y. Supporting frame for fabricating material. 2,421,189; May 27.
- Dillon, Harry R., Niagara Falls, N. Y. Hand loom. 2,424,880; July 29.
- Dillon, Irving W., Melrose, Mass. Variable delivery movable vane pump for a fluid transmission mechanism. 2,426,491; Aug. 26.
- Dillon, Lyle, assignor to Union Oil Company of California, Los Angeles, Calif. Method and apparatus for logging drill holes. 2,425,868; Aug. 19.
- Dillon, Lyle, San Gabriel, assignor to Union Oil Company of California, Los Angeles, Calif. Method and apparatus for logging drill holes. 2,425,869; Aug. 19.
- Dillon Patents Limited, assignee: *See*—Dillon, Thomas A.
- Dillon, Ralph R., assignor to W. C. Dillon & Company, Inc., Chicago, Ill. Grip for tensile testing. 2,419,711; Apr. 29.
- Dillon, Robert W., Morgantown, W. Va. Vibration damping device. 2,421,549; June 3.
- Dillon, Stephen V., Tulsa, Okla., assignor to Hanlon-Waters, Division of General Finance Corporation. Split packing ring coupling. 2,417,741; Mar. 18.
- Dillon, Thomas A., assignor to Dillon Patents Limited, Toronto, Ontario, Canada. Vibrating apparatus. 2,421,485; June 3.



- Dillon, W. C., & Company, Inc., assignee: *See*—  
Dillon, Ralph R.
- Dilworth, Thomas B., Hinsdale, and Milo M. Schalla, Oak Lawn, Ill., assignors to General Motors Corporation, Detroit, Mich. Locomotive cooling system. 2,423,929; July 15.
- Dimmer, Robert P., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Electric switch. 2,432,294; Dec. 9.
- Dimmick, Glenn L., Indianapolis, Ind., assignor to Radio Corporation of America. Color selective prism. 2,418,627; Apr. 8.
- Dimmick, Glenn L., Indianapolis, Ind., assignor to Radio Corporation of America. Achromatic light reflecting and transmitting film. 2,420,168; May 6.
- Dimmick, Glenn L., Indianapolis, Ind., assignor to Radio Corporation of America. Selective reflector. 2,422,954; June 24.
- Dimmick, Glenn L., Indianapolis, Ind., assignor to Radio Corporation of America. Thorium compound protective coatings for reflecting surfaces. 2,427,592; Sept. 16.
- Dimmick, Glenn L., Indianapolis, Ind., assignor to Radio Corporation of America. Apparatus for producing hardened optical coatings by electron bombardment. 2,428,868; Oct. 14.
- Dimmick, Glenn L., Indianapolis, Ind., assignor to Radio Corporation of America. Photographic record and method of forming same. 2,431,923; Dec. 2.
- Dimond, Thomas L., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Key control sender. 2,430,457; Nov. 11.
- Dimsdale, Wilfrid H., and R. R. Robinson, assignors to Ilford Limited, Ilford, England. Photographic elements bearing silver halide emulsion layer and adjacent light-insensitive colloid layer containing silver derivatives of azoles. 2,432,864; Dec. 16.
- Dimsdale, Wilfrid H., and R. R. Robinson, assignors to Ilford Limited, Ilford, England. Photographic elements having light-sensitive silver halide layers containing iron, cobalt and nickel derivatives of mercapto tetrazoles, triazoles or diazoles. 2,432,865; Dec. 16.
- Dinerstein, Samuel, Delavan, Wis., assignor, by mesne assignments, to George W. Borg Corporation, Chicago, Ill. Compensating spring and alloy for timepieces. 2,419,825; Apr. 29.
- Dinger, Jacob E.: *See*—  
Dudley, Frank E., and Dinger.
- Dingley, Edward N., Jr., Arlington, Va. Omnidirectional radio beacon. 2,413,694; Jan. 7.
- Dingley, Edward N., Jr., Arlington, Va. Radio direction finder. 2,415,088; Feb. 4.
- Dingley, Edward N., Jr., U. S. Navy. Electrical guidance system for surface vessels. 2,428,360; Oct. 7.
- Dinkfeld, August M.: *See*—  
Abrahams, Samuel A., Lewon, and Dinkfeld.  
Cummins, Arthur B., and Dinkfeld.
- Dinkfeld, August M., La Crescenta, Calif., and H. F. Vieweg, Highland Park, N. J., assignors to Johns-Manville Corporation, New York, N. Y. Molded magnesium insulation and manufacture. 2,413,958; Jan. 7.
- Dinklage, Ralph, Manhasset, N. Y., assignor to Safety-Fuel Incorporated, West Cheshire, Conn. Blow torch for use with solidified fuel. 2,414,455; Jan. 21.
- Dinmore, Harry C., Jr., Lowell, and R. K. Fraser, assignors to Tyer Rubber Company, Andover, Mass. Apparatus and process for the heat-treating of collapsible hollow articles of rubber and the like. 2,418,166; Apr. 1.
- Di-Noc Manufacturing Company, assignee: *See*—  
Reese, Thomas S.
- Dinsmore, Albert P., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Synchronizing device. 2,427,125; Sept. 9.
- Dinsmore, Clarence B., Flint, Mich. Magnetic compass compensating field device. 2,417,864; Mar. 25.
- Dinsmore, Theodore R.: *See*—  
Curtis, Russell R., and Dinsmore.
- Dintelmann, George C.: *See*—  
Silk, Charles E., and Dintelmann.
- Dinzl, Richard W., Westfield, assignor to The Watson-Stillman Co., Roselle, N. J. Injection molding machine. 2,433,654; Dec. 30.
- Dion, Raymond F., Leominster, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electric weft detector. 2,433,102; Dec. 23.
- Direccion General de Yacimientos Petroliferos Fiscales, assignee: *See*—  
Schlavyon, Juan B.
- Dirks, Norman: *See*—  
Isgren, Elmer E., and Dirks.
- Diroff, Alton J.: *See*—  
Peltier, Walter J., and Diroff.
- Di Salino, Marco, New York, N. Y. Hood for cooking utensils. 2,428,839; Oct. 14.
- Dishmaker, Orville A., Oshkosh, assignor of one-half to L. J. Kaufman, Manitowoc, Wis. Hare and tortoise toy. 2,419,990; May 6.
- Dispensiere, Joseph, Newark, N. J. Abrasive sheet holder. 2,428,618; Oct. 7.
- Disse, Josef A., Detroit, Mich. Universal vise. 2,419,887; Apr. 29.
- Dissel, Theodore A.: *See*—  
Lampton, Glen T., Vaszinder, and Dissel.
- Disser, Charles E. and U. S., St. Charles, Mo. Phonograph record cleaner. 2,417,590; Mar. 18.
- Disser, Urna S.: *See*—  
Disser, Charles E. and U. S.
- Distad, Merril F.: *See*—  
Page, Robert M., Distad, and Willson.
- Distillation Products, Inc., assignee: *See*—  
Cawley, John D.  
Denys, Urban.
- Distillers Company Limited, The, assignee: *See*—  
Grover, Cyril E.  
Tuerck, Karl H. W., and Lichtenstein.
- Ditchburn, Herbert, Trenton, Ontario, Canada. Boat hull construction. 2,433,745; Dec. 30.
- Ditchfield, Frank, assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Car construction. Re. 22,868; Apr. 15.
- Ditchfield, Frank, assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Car door. 2,415,731; Feb. 11.
- Ditchfield, Frank, assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Lifting device for sliding doors. 2,417,471; Mar. 18.
- Ditchfield, Frank, assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Lifting mechanism for sliding car doors. 2,432,733; Dec. 16.
- Di Tirro, Domenic A.: *See*—  
Parker, Arthur L., and Di Tirro.
- Ditmars, John E., assignee: *See*—  
Grupe, William F.
- Dittmar, Frank H., St. Louis, Mo., assignor to United States of America, as represented by the Secretary of War. Package of cartridge boxes. 2,421,486; June 3.
- Dittmar, Harry P., and D. J. Loder, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of ethyleneurea. 2,416,046; Feb. 18.
- Dittmar, William R., Williamsport, Pa., assignor to The Aviation Corporation, New York, N. Y. Cooling means for engines. 2,413,753; Jan. 7.
- Ditto, Incorporated, assignee: *See*—  
Cochran, William S.  
Kramsky, Irwin, and Holik.  
Levenhagen, Arthur J.  
Peterson, Eric W.
- Dittrich, Raymond, Forest Hills, N. Y. Electric underwater torch. 2,431,544; Nov. 25.
- Ditzler, John N., Silver Spring, Md., C. Oberdorfer, Birmingham, Ala., and H. D. Oberdorfer, assignors to New Castle Products, New Castle, Ind. Engine heating cover system. 2,417,636; Mar. 18.
- Diver, James D., Detroit, Mich. Device for inserting and removing lighting. 2,427,842; Sept. 23.
- Dixen, Einar B., Seattle, Wash. Mortising guide. 2,426,003; Aug. 19.
- Dixie Cup Company, assignee: *See*—  
Barbieri, Cesare.  
Carew, Herman.
- Dixon, Charles H., assignor to Ex-Cell-O Corporation, Detroit, Mich. Vending machine. 2,425,870; Aug. 19.
- Dixon, Frank T., assignor to Dixon Truck Parts Company, Altoona, Pa. Drive shaft brake. 2,420,526; May 13.
- Dixon, James K.: *See*—  
May, Donald R., and Dixon.  
Park, Robert H., and Dixon.  
Pfann, Harry F., and Dixon.
- Dixon, James K., Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y. Catalytic conversion of aromatic compounds. 2,422,163; June 10.
- Dixon, James K., Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y. Catalytic producing aromatic compounds. 2,422,164; June 10.
- Dixon, James K., Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y. Production of aromatic compounds. 2,422,165; June 10.
- Dixon, James K., Riverside, and D. R. May, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Producing aromatic compounds. 2,422,166; June 10.
- Dixon, James K., Riverside, and R. L. Morgan, Noroton, Conn., assignors to American Cyanamid Company, New York, N. Y. Medicinal preparations containing sulfonamides. 2,429,404; Oct. 21.
- Dixon, Lewis M., Sea Cliff, N. Y. Drape fixture. 2,419,486; Apr. 22.
- Dixon, Paul H., Wenham, and J. R. Ioannilli, Boston, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Sole attaching with thermoplastic cement. 2,417,065; Mar. 11.
- Dixon, Thomas R., Pampisford, assignor to The Enzymic Malt Company Limited, Ipswich, Suffolk, England. Production of acidified malt. 2,427,323; Sept. 9.
- Dixon Truck Parts Company, assignee: *See*—  
Dixon, Frank T.
- Di Zoppola, Mario, assignor, by mesne assignments, to Reconstruction Finance Corporation, New York, N. Y. Quick freeze unit. 2,433,655; Dec. 30.
- Djerassi, Carl, Chatham, and C. R. Scholz, assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J. Thymoxy-acetamides. 2,425,730; Aug. 19.
- Doane, Foster B., Wilmette, assignor to Magnaflex Corporation, Chicago, Ill. Method and apparatus for magnetic testing. 2,421,775; June 10.



- Doba, Stephen, Jr., Long Island City, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Drift meter. 2,418,465; Apr. 8.
- Doba, Stephen, Jr., Long Island City, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Keyed pulse generator. 2,432,516; Dec. 16.
- Dobbs, Richard H., Atlanta, Kans. Hydraulic jack. 2,416,796; Mar. 4.
- Dobell, Curzon, New York, N. Y. Fabrication of concrete elements or structures. 2,413,911; Jan. 7.
- Doble, Edward R., assignor to The Aero Equipment Corporation, Bryan, Ohio. Reversing valve. 2,414,638; Jan. 21.
- Dobrin, Harry, assignor to Furnace Engineers, Inc., Pittsburgh, Pa. Metal coating apparatus. 2,414,860; Jan. 28.
- Dodd, Paul R., Maryville, assignor of fifty per cent to I. D. Kenner, Mooresburg, Tenn. Chlorinating apparatus. 2,418,628; Apr. 8.
- Dodds, John M., Timperley, and J. H. Ludlow, Bowdon, England. Tuner. 2,420,657; May 20.
- Dodds, John M., Timperley, and J. H. Ludlow, Bowdon, England. Radio transmitter. 2,433,442; Dec. 30.
- Dodds, John M., Timperley, and G. J. Scoles, East Sheen, London, assignors to Metropolitan-Vickers Electrical Company, Limited, London, England. Control circuits for cathode-ray apparatus. 2,427,263; Sept. 9.
- Dodgege, Carl, Maywood, assignor to Aero Metal Products Corporation, Chicago, Ill. Ticket machine. 2,419,012; Apr. 15.
- Dodelin, Frederick A., Glen Ridge, and P. G. MacGregor, Pequannock, assignors to Pyrene Manufacturing Company, Newark, N. J. Explosively operated shearing device for frangible closure discs of pressure fluid containers. 2,419,826; Apr. 29.
- Dodenhoff, William D., assignee: *See*—Kottelman, Otto A.
- Roach, John A.
- Dodge, Adiel Y., Rockford, Ill. Hydraulic transmission control. 2,421,190; May 27.
- Dodge, Adiel Y., Rockford, Ill. One-way clutch and bearing. 2,423,178; July 1.
- Dodge, Adiel Y., and R. W. Hays, Rockford, Ill.; said Hays assignor to said Dodge. Torque transmitting coupling. 2,429,091; Oct. 14.
- Dodge, Floyd L., assignor to Craftsman Line-Up Table Corporation, Waltham, Mass. Spacing mechanism for line-up and register tables. 2,421,686; June 3.
- Dodge, Frederick G., La Vale, Md., assignor to Celanese Corporation of America. Heated cutter for plastics. 2,430,496; Nov. 11.
- Dodge, Frederick G., La Vale, Md., assignor to Celanese Corporation of America. Electrically heated tool for uniting sheet material. 2,430,920; Nov. 18.
- Dodge, Katharine E., New York, N. Y. Glove with change pocket. 2,421,412; June 3.
- Dodge Manufacturing Corporation, assignee: *See*—Fast, Maria L.
- Firth, David.
- Dodge, Mary L.: *See*—Wilson, Chester E., and Dodge.
- Dodge, Milton L., Newburyport, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Shoe upper shaping and smoothing machine. 2,433,266; Dec. 23.
- Dodge, Raymond V., Jr.: *See*—Thompson, Donald C., Dodge, and Nichols.
- Dodginton, Sven H. M., Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation. Saw-tooth wave generation. 2,416,292; Feb. 25.
- Dodkin, Donald, assignor to American Optical Company, Southbridge, Mass. Means for unblocking lenses. 2,428,412; Oct. 7.
- Dodson, Edward, Oaks, Puriton, near Bridgwater, England. Fuel injection system for internal-combustion engines. 2,416,797; Mar. 4.
- Dodwell, John M., Shawbridge, Quebec, Canada. Clutch. 2,422,533; June 17.
- Dodwell, John M., Shawbridge, Quebec, Canada. Clutch. 2,425,731; Aug. 19.
- Doe, Hans H., Milwaukee, Wis. Roofing. 2,428,361; Oct. 7.
- Doelling, George L., assignor to Wagner Electric Corporation, St. Louis, Mo. Corrosion preventive composition. 2,420,127; May 6.
- Doelman, Robert L.: *See*—Dietert, Harry W., and Doelman.
- Doering, Charles and H. H., E. W. Anderson, and B. J. Skoglund, Chicago, Ill.; said Anderson and said Skoglund assignors to said C. and H. H. Doering. Apparatus for producing molding dies and the like. 2,421,454; June 3.
- Doering, Henry H.: *See*—Doering, Charles and H. H., Anderson, and Skoglund.
- Doermann, Albert J., Chicago, Ill., assignor to Titan Abrasives Company. Abrasive disk unit. 2,425,363; Aug. 12.
- Doerr, Fredrick H., Lakewood, Ohio. Smoker's cabinet. 2,428,413; Oct. 7.
- Doesken, Henry, assignor to Filtrol Corporation, Los Angeles, Calif. Extrusion device for forming pellets. 2,432,734; Dec. 16.
- Doherty, William H., Elmhurst, N. Y. Supporting frame for articles of footwear. 2,421,019; May 27.
- Doherty, William H., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Translation of microwaves. 2,426,185; Aug. 26.
- Dojan, Oscar: *See*—Schmidt, Harry J., and Dojan.
- Doke, Ernest G., Winnetka, assignor to MacLean-Fogg Lock Nut Company, Chicago, Ill. Threshold plate for railroad cars. 2,429,182; Oct. 14.
- Dolan, George A., Hasbrouck Heights, N. J. Combined reactor and induction preheater for use in electrode arc welding. 2,416,047; Feb. 18.
- Dolberg, Charles E.: *See*—Clapp, Richard G., and Dolberg.
- Dolberg, Charles E., Philadelphia, and R. G. Clapp, Haverford, assignors, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Blanking circuit. 2,427,523; Sept. 16.
- Dolch, George D., Jr.: *See*—Wischhusen, John, and Dolch.
- Dole Valve Company, The, assignee: *See*—Bauerlein, Carl C., and Cramer.
- Brown, Clyde A.
- Doll, Henri-Georges, assignor to Schlumberger Well Surveying Corporation, Houston, Tex. Method and apparatus for determining the dip of strata traversed by a borehole. 2,427,950; Sept. 23.
- Doll, Henri-Georges, assignor to Schlumberger Well Surveying Corporation, Houston, Tex. Method and apparatus for investigating earth formations traversed by boreholes. 2,433,746; Dec. 30.
- Dollar, Harry C., Mebane, N. C. Hobbyhorse. 2,425,517; Aug. 12.
- Dollinger, Lewis L., Rochester, N. Y. Fireplace construction together with a heat distributor. 2,429,748; Oct. 28.
- Dollinger, Lewis L., assignor to Staynew Filter Corporation, Rochester, N. Y. Filter device. 2,421,776; June 10.
- Dolnick, Arthur A.: *See*—Wilder, Richard S., and Dolnick.
- Dols, Charles G., Long Beach, Calif., assignor to D. W. Onan & Sons, Minneapolis, Minn. Magneto. 2,420,169; May 6.
- Domash, Ruth L., Chicago, Ill. Combination table and separable service cabinet. 2,419,766; Apr. 29.
- Dome, Robert B., Bridgeport, Conn., assignor to General Electric Company. System of communication. 2,424,079; July 15.
- Dome, Robert B., Bridgeport, Conn., assignor to General Electric Company. Signal portraying apparatus. 2,426,439; Aug. 26.
- Domestic Industries, Inc., assignee: *See*—Sleeper, Paul H.
- Domingo, Emil, New York, N. Y. Microscope condenser. 2,415,732; Feb. 11.
- Domingos, James S.: *See*—Cox, Edward F., and Domingos.
- Dominion Electrical Manufacturing, Inc., assignee: *See*—Hanner, George E.
- Jordan, Richard H.
- Dominion Engineering Works Limited, assignee: *See*—Maude, John H.
- Muir, William P.
- Dominion Magnesium Limited, assignee: *See*—Tetu, Douglas A.
- Dominion Tar & Chemical Company Limited, assignee: *See*—Sturrock, Murray G., and Lawe.
- Domoj, John J.: *See*—Elder, Robert M., Domoj, Wise, and Konikoff.
- Domville, Charles H., Jr., Glen Ellyn, and E. E. Gray, assignors to Caspers Tin Plate Company, Chicago, Ill. Stacking device. 2,423,691; July 8.
- Donahew, Arthur L., U. S. Army, and W. H. De La Vergne, Washington, D. C. Hydraulic transmission and clutch. 2,420,305; May 13.
- Donahue, William J., Jr.: *See*—Graumann, Raymond L., and Donahue.
- Donahue, William T., Chicago, Ill., assignor to Addison-Semmes Corporation, Racine, Wis. Pallet. 2,432,295; Dec. 9.
- Donald, Archibald, Prospect Park, and J. Jacobstein, Crum Lynne, Pa. Heating apparatus. 2,418,015; Mar. 25.
- Donald, John M., Birmingham, England. Hand truck for handling barrels. 2,419,314; Apr. 22.
- Donaldson, Donald D., Marshfield, Ore. Pump. 2,425,423; Aug. 12.
- Donaldson, William J.: *See*—Wright, Harold R., and Donaldson.
- Donaldson, William R., assignee, trustee, administrator: *See*—Monroe, Thomas E.
- Donath, Ralph: *See*—Shandor, Marion E., and Donath.
- Doner, Halbert C., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Combination food processing unit and home power tool. 2,415,939; Feb. 18.
- Doniak, Michael, Lynwood, Calif. Drive unit. 2,419,392; Apr. 22.
- Doniger, Sundel, New York, N. Y. Knife gauge. 2,420,469; May 13.



Donnelly, Emmett, administrator, et al.: *See*—

Sloan, Edward C.  
Donnelly, Henry G., Baltimore, Md., assignor to C. R. Daniels, Inc., Newark, N. J. Portable container handle structure. 2,421,687; June 3.

Donnelly, John C., Greenwich, Conn. Processing food-stuffs. 2,433,348; Dec. 30.

Donnelly, Thomas S., Detroit, Mich. Electrode holder. 2,417,547; Mar. 18.

Donnelly, Thomas S., Detroit, Mich. Electrode holder. 2,423,758; July 8.

Donnelly, William J., New Britain, Conn. Steam trap. 2,421,144; May 27.

Donner-Hanna Coke Corporation, assignee: *See*—

Segur, Daniel K.

Donner, Lawrence F., London, England. Apparatus for use in learning reading and arithmetic. 2,415,342; Feb. 4.

Donovan, Alfred J., Danvers, Mass., assignor to Sylvania Electric Products Inc. Coating tubular glass articles with luminous material. 2,421,550; June 3.

Donroe, Louis J., Irvington, assignor to Pyrene Manufacturing Company, Newark, N. J. Electrolytically depositing iron and iron alloys. 2,418,970; Apr. 15.

Dons, Eddie M., and O. G. Mauro, assignors to Mid-Continent Petroleum Corporation, Tulsa, Okla. Apparatus for dewaxing oils. 2,420,418; May 13.

Doody, Walter J., Boston, Mass. Hydrant marker. 2,424,269; July 22.

Dooley, Robert H.: *See*—

Fontenot, Remie E., and Dooley.  
Dooling, John H., Fitchburg, assignor of one-half to L. J. O'Malley, Newton, Mass. Expansion repair plate for worn railway ties. 2,421,602; June 3.

Doolittle, Duane, Lincolnville, Maine. Rotary stencil printer having clamping means and guiding means. 2,429,927; Oct. 28.

Doppelhammer, John, Twin Lakes, Minn. Mail box signaling device. 2,421,603; June 3.

Doppelt, Charles, Chicago, Ill. Combination billfold and coin purse. 2,428,267; Sept. 30.

Doran, John E., assignor to The G. A. Gray Company, Cincinnati, Ohio. Electric control for planers and the like. 2,422,476; June 17.

Dorer, Oscar H., East Orange, assignor to Worthington Pump and Machinery Corporation, Harrison, N. J. Power system. 2,426,765; Sept. 2.

Dorfan, Morton I., Pittsburgh, Pa. Fume removing and treating apparatus. 2,415,471; Feb. 11.

Dorff, Russell S., assignor to The Hall China Company, East Liverpool, Ohio. Rotary conveyor for coating machines. 2,417,472; Mar. 18.

Dorfman, Harry, Montreal, Quebec, Canada. Lady's undergarment. 2,417,473; Mar. 18.

Dorfman, Hiller D.: *See*—  
Dyer, Lloyd W., and Dorfman.

Dorfman, Hiller D., Forest Hills, and G. J. Freese, East McKeesport, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,419,125; Apr. 15.

Dorfman, Irving, assignor to Federal Carton Corporation, New York, N. Y. Display box with adjustable bottom. 2,420,773; May 20.

Dorfman, Isadore, Brownsville, Tex. Lighter. 2,430,670; Nov. 11.

Dorfman, Oscar, New York, N. Y. Interchangeable insertion type wiring device. 2,428,110; Sept. 30.

Dorman, Jack, assignee: *See*—  
Kubice, John A.

Dorman, Jack R., Cincinnati, Ohio. Tube and coupling assembly. 2,415,472; Feb. 11.

Dorman, Stephen C., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Insecticidal composition. 2,429,092; Oct. 14.

Dormeyer, A. F., Mfg. Company, assignee: *See*—  
Kennedy, Verne C.

Dorn, Herman W., Toledo, Ohio, assignor to International Minerals & Chemical Corporation. Manufacture of salts of glutamic acid. 2,419,256; Apr. 22.

Dorne, Arthur, Freeport, N. Y., assignor to United States of America as represented by the Secretary of War. Electrical apparatus. 2,432,230; Dec. 9.

Dorner, Frank H. C., assignor to Whitehall Machine and Tools Limited, Galt, Ontario, Canada. Fishing rod handle. 2,422,084; June 10.

Dornfeld, Edmund G.: *See*—  
Smith, Perry C., Runge, and Dornfeld.

Dornier, Claude, F. Stauffer, and H. Wöhner, Friedrichshafen-on-the-Bodensee, and F. Bottling, Friedrichshafen-Manzell, Germany; vested in the Attorney General of the United States. Air brake for aircraft. 2,421,870; June 10.

Dorough, George L., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Stabilized chlorine containing polymers. 2,432,296; Dec. 9.

Dorr Company, The, assignee: *See*—

Bhoota, Baboobhai.  
Clemens, Robert F.  
Contant, Peter M., Fischer, and Kivell.  
Gutzeit, Gregoire, Roberts, and Thompson.  
Kivari, Arthur M.

Dorr Company, The, assignee: *See*—Continued.

McKay, James B.  
Rawlings, Franklin N.  
Rawlings, Franklin N., and de Geoffroy.  
Shafer, Ralph W.

Dorsch, William C., Jamaica, N. Y., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del. Drying unit using steam jets. 2,420,739; May 20.

Dorschner, Irvin E., Spirit Lake, Iowa. Corn harvester. 2,420,470; May 13.

Dorsey, Claude B., Jr., Elba, Ala. Logging trailer. 2,419,442; Apr. 22.

Dorsey, John J., Bay City, Grays Harbor, Wash. Handling of fish meal and the like. 2,420,393; May 13.

Dorsey, Sherman H., Webster Groves, A. D. Reisert, St. Louis, A. P. Fox, University City, and C. H. Mueller, Ferguson, assignors to Lincoln Engineering Company, St. Louis, Mo. Hydropneumatic pressure system. 2,432,609; Dec. 16.

Dorst, Stanley O.: *See*—

Robinson, Preston, and Dorst.

Dorst, Stanley O., assignor to Sprague Electric Company, North Adams, Mass. Noninductive resistance element. 2,421,688; June 3.

Dorton, John M., Bonner Springs, Kans. Reclining spring supported back rest. 2,430,604; Nov. 11.

Dory, Albert J., Chicago, Ill. Artificial fishing lure. 2,430,111; Nov. 4.

Dosio, Italo R., assignor to B. R. Rand, Buenos Aires, Argentina. Circuit for gaseous discharge tubes. 2,417,742; Mar. 18.

Dosker, Cornelius D., assignor to Gamble Brothers, Louisville, Ky. Angular glued wood joint. 2,413,912; Jan. 7.

Dosker, Cornelius D., assignor to Gamble Brothers, Louisville, Ky. Camel. 2,426,345; Aug. 26.

Dostal, James J., Detroit, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Indexing apparatus. 2,415,872; Feb. 18.

Doty, Charles R., Yonkers, assignor to International Business Machine Corporation, New York, N. Y. Ciphering apparatus. 2,425,518; Aug. 12.

Doub, Peter B., Los Angeles, Calif. Computer. 2,415,581; Feb. 11.

Doucette, Edmund, assignor to The Daven Company, Newark, N. J. Electrical switch. 2,424,745; July 29.

Doucette, Edmond, assignor to The Daven Company, Newark, N. J. Contact switch. 2,430,215; Nov. 4.

Dougherty, Charles A., Wilmington, Del. Keeper inserting tool. 2,423,010; June 24.

Dougherty, Charles A., Wilmington, Del. Keeper inserting tool. 2,431,636; Nov. 25.

Dougherty, James E.: *See*—  
Reno, Michael W., and Dougherty.

Dougherty, John J., assignee: *See*—  
Cobi, Walter H.

Dougherty, Martinello P., Marysville, Kans. Multiported spray device. 2,430,045; Nov. 4.

Dougherty, Raymond L., assignor to W. M. Chace Company, Detroit, Mich. Snap acting thermostat. 2,415,473; Feb. 11.

Douglas Aircraft Company, Inc., assignee: *See*—  
Berberich, Frank J., Jr.  
Bruderlin, Henry H.  
Cadman, George E.

Castle, John B.  
Glasgow, Charles S., and Burton.  
Klemperer, Wolfgang B., and Pier.  
Ostergren, Ralph H.

Rose, Edward H.  
Thomas, Hal M., and D'Amico.  
Thorngren, Alfred.  
Ward, Delvert J.  
Watson, Jack H.  
Wheeler, Orville A.

Douglas, Alan, Burnham Green, England. Electrical measurement of displacement. 2,414,224; Jan. 14.

Douglas, George R., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Stabilizing apparatus. 2,417,066; Mar. 11.

Douglas, H. A., Mfg. Co., assignee: *See*—  
Bolley, Herschel C.  
Penfold, Charles S.

Douglas, James L., Cleveland Heights, Ohio. Marking device. 2,417,865; Mar. 25.

Douglas, Norvel, Dallas, Tex. Rotary pump or the like. 2,428,619; Oct. 7.

Douglass, Claude F., Comache, Tex. Peanut plow. 2,419,633; Apr. 29.

Douma, Tjlske, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Frequency-doubling device for high-frequency oscillations. 2,420,740; May 20.

Douman, Thomas F., Los Angeles, and C. S. Coe, Long Beach, assignors to Union Oil Company of California, Los Angeles, Calif. Nitric acid as selective solvent in oxidation of naphthalenes. 2,420,938; May 20.

Doumani, Thomas F., R. Deery, and A. C. McKinnis, Long Beach; said R. Deery, now by judicial change of name to R. F. Deering, assignors to Union Oil Company of California, Los Angeles, Calif. Recovery of dienes by polymerization and depolymerization. 2,423,179; July 1.



- Doumani, Thomas F., Los Angeles, and C. S. Coe, Long Beach, assignors to Union Oil Company of California, Los Angeles, Calif. Reduction of nitronaphthenes. 2,423,180; July 1.
- D'Ouville, Edmond L., assignor to Standard Oil Company, Chicago, Ill. Unitary isomerization-alkylation system. 2,415,733; Feb. 11.
- Dove, John F.: *See*—  
Mott, Chester, Chouinard, and Dove.
- Dow Chemical Company, The, assignee: *See*—  
Alquist, Francis N., Groom, and Haney.  
Amos, James L., and Stober.  
Bass, Shailer L.  
Boyer, Raymond F.  
Britton, Edgar C., and Hansen.  
Britton, Edgar C., Livak, and Murray.  
Britton, Edgar C., Livak, and Vander Weele.  
Coleman, Gerald H., and Schroeder.  
Coleman, Gerald H., and Smith.  
De Long, Herbert K.  
Dreisbach, Robert R., and Fletcher.  
Dulmage, Frederick E.  
Fletcher, Fred W., and Kenaga.  
Freeman, Richard D.  
Frevel, Ludo K.  
Griswold, Thomas, Jr., and McConica.  
Hammer, Oscar H.  
Hansen, John N., and Smith.  
Hanson, Alden W.  
Heath, Sheldon B., and Kuehl.  
Highhill, Charles A.  
Houtman, Thomas, Jr.  
Hunter, Melvin J., Fletcher, and Currie.  
Kagy, John F., and Prendergast.  
Kagy, John F., and Sloop.  
Lynn, George E., and Thiels.  
Matheson, Lorne A., and Boyer.  
Nutting, Howard S., and Horsley.  
Peake, John S., and Sermon.  
Pelton, Earl L., and Holzschuh.  
Perkins, Ralph P., and Rigerink.  
Pye, David J., and Leduc.  
Stephenson, Wilbur T., and Palmer.  
Williams, William H., Holmes, and Fruehauf.  
Williams, William H., Holmes, and Widiger.
- Dow, James N., Longmeadow, Mass., assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Mothproofing pile fabrics. 2,417,916; Mar. 25.
- Dow, Orville E., Port Jefferson, N. Y., assignor to Radio Corporation of America. High-frequency wave meter. 2,419,126; Apr. 15.
- Dow, Orville E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Pulse repeater system. 2,425,816; Aug. 12.
- Dow, Orville E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Ultra high frequency switch. 2,426,186; Aug. 26.
- Dow, Raymond, Flushing, N. Y. Saw holder. 2,432,866; Dec. 16.
- Dowd, Raymond E., Chicago, Ill. Flying wing. 2,432,297; Dec. 9.
- Dowdakin, Clarence E., Los Angeles, Calif. Hat. 2,427,391; Sept. 16.
- Dowe, George P., assignor to Geo. P. Dowe Company Limited, Toronto, Ontario, Canada. Electric tank water heater. 2,423,488; July 8.
- Dowe, Geo. P., Company Limited, assignee: *See*—  
Dowe, George P.
- Dowell, Ralph L., assignor to Tennessee Coal, Iron and Railroad Company, Birmingham, Ala. Apparatus for separating defective sheets as sheared from continuous strip. 2,433,685; Dec. 30.
- Dowsinsky, Samuel, New York, N. Y. Steaming and pressing iron. 2,427,264; Sept. 9.
- Dowling, Clinton, Bethesda, Md., assignor of eight percent to J. K. Althaus, eight percent to R. K. Althaus, sixteen percent to R. A. Vogeley, sixteen percent to C. R. Meininger. Feeder and exerciser. 2,416,825; Mar. 4.
- Downer, Elon H., assignee: *See*—  
Pelham, Harry D.
- Downer, Richard F.: *See*—  
Johnstone, Roy L., and Downer.
- Downes, Frank A., Westport, Conn., assignor, by mesne assignments, to Bird Machine Company, Walpole, Mass. Cement manufacture. 2,424,746; July 29.
- Downie, John W., Schenectady, N. Y., assignor to General Electric Company. Protective system for electric blankets. 2,424,438; July 22.
- Downie, John W., Schenectady, N. Y., assignor to General Electric Company. Aircraft landing system. 2,426,440; Aug. 26.
- Downing, Frederick B., Carney's Point, A. F. Benning, Woodstown, and R. C. McHarness, Carney's Point, N. J., assignors to Kinetic Chemicals, Inc., Wilmington, Del. Fluorinated compounds and pyrolytic methods for preparing them. 2,413,695; Jan. 7.
- Downing, Frederick B., Carney's Point, and A. F. Benning and R. C. McHarness, Woodstown, N. J., assignors to Kinetic Chemicals, Inc., Wilmington, Del. Fluorohydrocarbon. 2,413,696; Jan. 7.
- Downing, Frederick B., and C. J. Pedersen, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Stabilization of organic substances. 2,426,766; Sept. 2.
- Downing, John: *See*—  
Sharpshouse, John H., and Downing.  
Sharpshouse, John H., Hatwin, Downing, and Groombridge.
- Downing, Montague, Kiddermister, England. Tobacco pipe. 2,429,808; Oct. 28.
- Downing, Roy P., Tulsa, Okla. Hydraulic pumping unit. 2,432,735; Dec. 16.
- Downs, George W., Pasadena, and D. A. Kelly, Los Angeles, assignors to William Miller Corporation, Pasadena, Calif. Demodulator circuit. 2,417,974; Mar. 25.
- Downs, William R., assignor to Corhart Refractories Company, Louisville, Ky. Lutings. 2,429,872; Oct. 28.
- Dowty, George H., Cheltenham, England. Leg structure for mounting aircraft landing elements. 2,421,871; June 10.
- Dowty, George H., Cheltenham, England. Emergency extension mechanism. 2,424,926; July 29.
- Doyle, Edmund A., Brooklyn, N. Y., assignor to The Linde Air Products Company. Apparatus for cladding metal bodies. 2,414,510; Jan. 21.
- Doyle, Francis J., Boston, Mass. Fire nozzle control clamp. 2,419,393; Apr. 22.
- Doyle, Irving W., Massapequa, assignor to Fairchild Camera and Instrument Corporation, Jamaica, N. Y. Camera cone. 2,429,051; Oct. 14.
- Doyle, Irving W., Massapequa, and C. V. Johnson, Kew Gardens, assignors to Fairchild Camera and Instrument Corporation, Jamaica, N. Y. Focal plane shutter. 2,424,439; July 22.
- Doyle Manufacturing Corporation, assignee: *See*—  
Heinze, John O.
- Doyle, Mary R., Danville, Calif. Paper bib. 2,424,680; July 29.
- Doyle, Thomas J., Milton, assignor to Tubular Rivet and Stud Company, Quincy, Mass. Anvil unit for rivet setting machines. 2,433,103; Dec. 23.
- Drackett Company, The, assignee: *See*—  
Calvert, Francis E.
- Dragoo, Fay H., Farmington, W. Va. Extension bit. 2,430,392; Nov. 4.
- Drake, Charles E., Bloomfield, N. J., assignor to United States Rubber Company, New York, N. Y. Abrasive articles. 2,418,249; Apr. 1.
- Drake, Charles E., Bloomfield, N. J., assignor to United States Rubber Company, New York, N. Y. Abrasive articles. 2,418,250; Apr. 1.
- Drake, Edward P.: *See*—  
Ryan, Commodore D., and Drake.
- Drake, Earl D., assignor to Gibson Refrigerator Company, Greenville, Mich. Cabinet shelf support. 2,427,767; Sept. 23.
- Drake, Earl D., assignor to Gibson Refrigerator Company, Greenville, Mich. Refrigerator cabinet. 2,432,563; Dec. 16.
- Drake, George F., assignor to Woodward Governor Company, Rockford, Ill. Friction clutch. 2,418,466; Apr. 8.
- Drake, George F., assignor to Woodward Governor Company, Rockford, Ill. Control for variable pitch propellers. 2,424,559; July 29.
- Drake, George F., assignor to Woodward Governor Company, Rockford, Ill. Multiple prime mover control and synchronization. 2,431,687; Dec. 2.
- Drake, William C., assignor to Pioneer Log Cabin Company, Reno, Nev. Log cabin structure. 2,416,162; Feb. 18.
- Draper Corporation, assignee: *See*—  
Brown, Carl D.  
Sanderson, Kenneth E., and Rogers.  
Tift, Emerson B.
- Dravo Corporation, assignee: *See*—  
Atwood, Gilbert H., and Schwartz.
- Dray, Charles R., Rochester, N. Y. Lock for gates. Re. 22,918; Sept. 23.
- Dreger, Emil E., Summit, and J. R. Ramsey, assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Normal secondary tridecyl sulphates. 2,422,613; June 17.
- Dreger, Emil E., Summit, and J. Ross, Ramsey, assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Normal secondary nonadecyl sulphates. 2,423,692; July 8.
- Dreier, Victor G., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Self-draining heat transfer fins. 2,427,200; Sept. 9.
- Dreisbach, Robert R., and F. W. Fletcher, assignors to The Dow Chemical Company, Midland, Mich. Polyalkyl aromatic insecticides. 2,428,738; Oct. 7.
- Dreischer, Henry C., Chicago, Ill. Rotary hedge trimmer. 2,427,265; Sept. 9.
- Dreisin, Alexander, Chicago, Ill., assignor to International Harvester Company. Fuel pump with automatic timer. 2,417,915; Mar. 25.
- Dreisin, Alexander, Chicago, and R. E. Peterson, Riverside, Ill., assignors to International Harvester Company. Reciprocating rotary distributing pump. 2,419,542; Apr. 29.



- Drennan, Harry E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of pure mercaptans. 2,422,826; June 24.
- Drennan, Harry E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Separating isobutylene from admixture of butene-1 and isobutylene. 2,428,516; Oct. 7.
- Drescher, Ernest W., Manheim Township, Lancaster County, assignor to Hamilton Watch Company, Lancaster, Pa. Cantilever support for gimbal carried instruments. 2,425,602; Aug. 12.
- Drescher, Ernest W., Manheim Township, Lancaster County, assignor to Hamilton Watch Company, Lancaster, Pa. Chronometer box securing support. 2,433,509; Dec. 30.
- Drescher, Rowland B., and A. C. Wenzel, assignors to Republic Flow Meters Company, Chicago, Ill. Pump control system. 2,431,995; Dec. 2.
- Dress, Fred G., New York, N. Y. Stormproof lighter. 2,430,216; Nov. 4.
- Dresser Industries, Inc., assignee: *See*—Newell, Frederick T.
- Dresser, Willis R., Long Hill, Conn., assignor to Kenyon Instrument Co., Inc., Huntington Station, Long Island, N. Y. Remote-control metering system. 2,419,487; Apr. 22.
- Drew, Donald E., Snyder, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of shrinkproof film. 2,431,738; Dec. 2.
- Drew, Ralph L.: *See*—Miskelly, Raymond E., and Drew.
- Drew, Richard H., assignee: *See*—Hall, Jawn R.
- Drewell, William B., assignor to Creed and Company Limited, Croydon, England. Apparatus for mechanically operating keyboards of typewriters and the like. 2,433,349; Dec. 30.
- Drewes, William E., San Francisco, Calif. Drier and heater. 2,423,587; July 8.
- Drewitt, James G. N., London, and D. P. Young, Spondon, near Derby, assignors to British Celanese Limited, London, England. Amino-aliphatic hydrazines and making same. 2,420,702; May 20.
- Dreyer, John F., assignor to The General Polarizing Company, Cincinnati, Ohio. Polarizer and polarizing lamp. 2,432,867; Dec. 16.
- Dreyfus, Camille, New York, N. Y. Nonstretch garment. 2,426,674; Sept. 2.
- Dreyfus, Camille, New York, N. Y. Collapsible tube. 2,430,046; Nov. 4.
- Dreyfus, Henry, London, England; Claude Bonard, administrator of said Henry Dreyfus, deceased. Manufacture of hydroxylamine. 2,414,142; Jan. 14.
- Dreyfus, Henry, London, England; C. Bonard, administrator of said H. Dreyfus, deceased. Production of textiles and other articles having a basis of a polyvinyl compound. 2,427,126; Sept. 9.
- Dreyfus, Henry, London, England; C. Bonard, administrator of said Henry Dreyfus, deceased. Cellulose compound composition containing a preservative. 2,432,517; Dec. 16.
- Drieschman, Donald F., San Carlos, G. Shepherd, Burlingame, M. Rabinowitz, San Francisco, A. M. Newhall, Jr., Palo Alto, and H. E. Sorg, Redwood City, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Making grids. 2,422,827; June 24.
- Dringman, Clarence A., Lincoln, Wash. Knife. 2,429,405; Oct. 21.
- Drissner, Alfred E., and K. W. Barkinen, assignors to The National Acme Company, Cleveland, Ohio. Single spindle automatic machine. 2,425,308; Aug. 12.
- Dri-Steam Products, Inc., assignee: *See*—Wegmann, Adolph J.
- Driver, Wilbur B., East Orange, assignor to Wilbur B. Driver Company, Newark, N. J. Low-temperature heating element. 2,422,477; June 17.
- Driver, Wilbur B., Company, assignee: *See*—Driver, Wilbur B.
- Dronsfield, Samuel W., Wilmslow, England. Manufacture of abrasive materials. 2,426,441; Aug. 26.
- Drott, Edward A., Milwaukee, Wis. Loader. 2,418,251; Apr. 1.
- Drubko, John, Jefferson, Ohio. Coke breaker. 2,428,268; Sept. 30.
- Druck, Maurice, Long Beach, N. Y. Curtain. 2,422,293; June 17.
- Drucker, George A., Chicago, Ill. Negative carrier. 2,427,554; Sept. 16.
- Drucker, George A., assignor to Burke and James, Inc., Chicago, Ill. Film clip. 2,428,558; Oct. 7.
- Druey, Jean: *See*—Hartmann, Max, von Meyenburg, and Druey.
- Drummond, Folsom E., assignor, by mesne assignments, to Chemical Developments Corporation, Dayton, Ohio. Forming plastic coating compositions on surfaces. 2,431,315; Nov. 25.
- Dryden, Charles E.: *See*—Buxton, Loran O., and Dryden.
- Dryer, John H., Moose Pass, Territory of Alaska. Self-classifying ball mill. 2,432,610; Dec. 16.
- Drying Systems, Inc., assignee: *See*—Yates, Robert E.
- Dube, John E., St. Louis County, assignor to Alco Valve Company, Maplewood, Mo. Air control valve. 2,433,206; Dec. 23.
- Dubin, Lester, Brooklyn, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Transmitter control circuit. 2,424,972; Aug. 5.
- Dubner, Harry J., Forest Hills, N. Y. Foundation garment. 2,424,651; July 29.
- Du Bois, Horace A., assignor to Paper Patents Company, Neenah, Wis. Recovery of SO<sub>2</sub> from digester blowoff gases. 2,418,167; Apr. 1.
- Du Bois, Joseph E., deceased; V. I. Du Bois, executrix, assignor to V. I. Du Bois, R. C. Sterne, E. Silbert, and F. E. Taylor, Buffalo, and L. T. Holzworth, North Tonawanda, N. Y. Eye shield. 2,422,534; June 17.
- Dubois, Léon J., Paris, France. System for the moulding of any material. 2,415,873; Feb. 18.
- Du Bois, Le Roy, New York, N. Y. Oil dispenser. 2,429,309; Oct. 21.
- Du Bois, Virginia I., executrix: *See*—Du Bois, Joseph E.
- Du Bois, William H., assignor to Bendix Aviation Corporation, South Bend, Ind. Disk brake. 2,423,011; June 24.
- Du Bois, William H., assignor to Bendix Aviation Corporation, South Bend, Ind. Disk brake. 2,423,881; July 15.
- Du Brie, Stanley R., Detroit, Mich. Wind motor. 2,431,111; Nov. 18.
- Duccini, Gaetano, and P. R. Caredio, San Francisco, Calif. Apparatus for producing vitreous or metallic surfaces. 2,427,448; Sept. 16.
- Ducey, Roger H., Belmont, Mass. Cylinder lock. 2,419,013; Apr. 15.
- Ducharme, Anna B., assignee, et al.: *See*—Bernard, Nicholas.
- Duckwitz, Fred, Kent, Ohio, assignor to The Black & Decker Electric Company. Tool rest for grinding wheels. 2,415,676; Feb. 11.
- Dudis, Charles G.: *See*—Carter, Elmer C., and Dudis.
- Dudley, Frank E., Portsmouth, Va., and J. E. Dinger, Washington, D. C. Electronic current limiter system for machine tool motors. 2,431,316; Nov. 25.
- Dudley, James R., Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y. Purification of fluids with cation active resins. 2,420,419; May 13.
- Duenas, John: *See*—Duenas, Peter and J.
- Duenas, Peter and J., Forest Hills, N. Y. Method and machine for forming corrugated tubing. 2,419,678; Apr. 29.
- Duer, Morris J., Troy, Ohio. Speed control device. 2,422,343; June 17.
- Duerr, Herman H., H. W. Morrell, Jr., and H. C. Harsh, Binghamton, assignors to General Aniline & Film Corporation, New York, N. Y. Production of color negative film containing integral masking images for color correction. 2,431,996; Dec. 2.
- Duesberg, Hubert, Brussels, Belgium; vested in the Alien Property Custodian. Arrangement for extracting metal bodies from webs of textile materials. 2,416,293; Feb. 25.
- Dufay-Chromex Limited, assignee: *See*—May, George.
- Duff, Lloyd Berten, Milwaukee, Wis., assignor to Industrial Patents Corporation, Chicago, Ill. Cut-down device. 2,423,930; July 15.
- Duffield, Charles F., Adelaide, South Australia, Australia. Core recovering device. 2,422,955; June 24.
- Duffy, Charles H., Miami, Fla. Masking attachment for photographic cameras. 2,421,746; June 10.
- Duffy, David H., Wichita, Kans. Machine for icing cake, or the like. 2,431,029; Nov. 18.
- Duffy, George E., Sr., assignor to General Railway Signal Company, Rochester, N. Y. Polarized electromagnet. 2,414,583; Jan. 21.
- Duffy, Harold A.: *See*—Cartter, William G., and Duffy.
- Duffy, Hugh E., Chillicothe, Ohio. Air pressure system for multiple tank fuel feed devices. 2,424,440; July 22.
- Duffy, Thomas I., assignor to Anderson-Bolling Mfg. Co., Grand Haven, Mich. Wagon construction. 2,418,971; Apr. 15.
- Dufour, Eric, Aubonne, Switzerland. Nonslipping rubber sole. 2,424,226; July 22.
- Dufour, Léon, Geneva, Switzerland. Agricultural tractor or vehicle. 2,429,711; Oct. 28.
- Dugan, Kenneth, Phillipsburg, assignor of one-third to J. F. Cullen, Newark, and one-third to H. Lore, Phillipsburg, N. J. Interlocking structure. 2,414,255; Jan. 14.
- Dugger, Horace F., Charleston, S. C. Boiler tube splitter. 2,427,843; Sept. 23.
- Duke, Crawford R., Chicago, Ill. Gate for skip car charging chutes. 2,416,740; Mar. 4.
- Duke, Vernon J., Rockville Centre, N. Y., assignor to Radio Corporation of America. Frequency discriminator circuit. 2,413,913; Jan. 7.
- Du Laney, George W., Camden, N. J. Juice extractor. 2,413,866; Jan. 7.
- Dulmage, Frederick E., Saginaw, assignor to The Dow Chemical Company, Midland, Mich. Modified bar-stock chucking lathe with rotary cutters. 2,431,294; Nov. 18.



- Dumas, Francois U., Spencer, Mass. Oil burner. 2,416,383; Feb. 25.
- Dumbruski, Robert L., Cambridge, Ohio. Handbag. 2,427,201; Sept. 9.
- Dummett, George A., and S. J. Ralph, London, assignors to The Aluminum Plant & Vessel Company, Wandsworth, London, England. Distillation of hydrocarbons with addition of acetone-methyl alcohol. 2,417,355; Mar. 11.
- Du Mont, Allen B., Laboratories, Inc., assignee: *See*—  
Banker, John R.  
Burke, Joseph M.  
Christaldi, Peter S., and Banker.  
De Forest, Lee.  
Koch, Stanley J., and Rutherford.  
Milholland, Harry C.  
Spector, Morris.  
Steadman, Albert.
- Duna, Alfred L., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Buoyant cable. 2,424,388; July 22.
- Dunaway, Judson, Corporation, assignee: *See*—  
Dunaway, Sanford J.
- Dunaway, Sanford J., assignor to Judson Dunaway Corporation, Dover, N. H. Vapor dispensing device. 2,431,924; Dec. 2.
- Dunbar, James Y., and J. S. Knight, U. S. Navy. Hearing guard and ear protector. 2,427,664; Sept. 23.
- Dunbar, Richard S., Massena, N. Y., assignor to Aluminum Company of America, Pittsburgh, Pa. Rotary pay-off. 2,424,307; July 22.
- Duncan, George R., Washington, Mo. Milk cooler. 2,425,519; Aug. 12.
- Duncan, Gordon W., Westerfield, and J. C. Zimmer, Union, N. J., assignors to Standard Oil Development Company. Lubricant. 2,420,068; May 6.
- Duncan, Hershel B., assignor to Carboloy Company, Inc., Detroit, Mich. Extrusion apparatus and process. 2,414,029; Jan. 7.
- Duncan Meter Corporation, assignee: *See*—  
Broussard, Robert F.
- Duncan, Robert C.: *See*—  
Glennon, James B., and Duncan.
- Duncan, Robert C., Chevy Chase, Md. Porous pellet delay switch. 2,414,804; Jan. 28.
- Duncan, Thomas J.: *See*—  
Cockrill, William T., and Duncan.
- Dunham, Aubra R., Glencoe, and H. V. Williamson, assignors to Experimental Laboratories Incorporated, Chicago, Ill. Subatmospheric gas burner. 2,424,154; July 15.
- Dunham, C. A., Company, assignee: *See*—  
Crosthwait, David N., Jr., and Werts.
- Dunham Company, The, assignee: *See*—  
Schiefelbein, Fredrick W.
- Dunham, Delbert F., Tujunga, Calif. Sprinkler head. 2,421,551; June 3.
- Dunham, Elmer J., Battle Creek, assignor to Clark Equipment Company, Buchanan, Mich. Industrial truck. 2,414,192; Jan. 14.
- Dunham, George W., Westport, Conn., assignor to General Electric Company. Supporting means for vertical axis washing machine spinner baskets. 2,421,251; May 27.
- Dunham, George W., Westport, Conn., assignor to General Electric Company. Tub construction for two-tub spinner type clothes washing machines. 2,421,252; May 27.
- Dunkelberger, Milton S., assignor to The American Display Company, Dayton, Ohio. Adjustable reflector. 2,421,057; May 27.
- Dunker, Erwin, Hebron, Nebr. Tractor combine combination. 2,428,517; Oct. 7.
- Dunlap, Charles K., Hartsville, S. C., assignor to Sonoco Products Company. Textile cone. 2,430,710; Nov. 11.
- Dunlap, Isaac R.: *See*—  
Reineck, Edward, and Dunlap.
- Dunlap, Merlin B.: *See*—  
Moore, John F., and Dunlap.
- Dunlop Rubber Company Limited, assignee: *See*—  
Butler, Henry J.  
Teicher, Joseph A., and Twiss.  
Trevaskis, Henry.  
Trevaskis, Henry W.
- Dunlop Tire and Rubber Corporation, assignee: *See*—  
McChesney, Cuyler S.
- Dunn, David L., Seattle, Wash. Tent. 2,415,343; Feb. 4.
- Dunn, George E., assignor to Universal Products Company, Inc., Dearborn, Mich. Universal joint. 2,427,449; Sept. 16.
- Dunn, George E., assignor to Universal Products Company Incorporated, Dearborn, Mich. Constant velocity joint. 2,432,395; Dec. 9.
- Dunn, Gordon M., Lake Placid, N. Y. Bib. 2,423,489; July 8.
- Dunn, Guy A., Oakland, assignor to California Packing Corporation, San Francisco, Calif. Fruit transfer means. 2,414,584; Jan. 21.
- Dunn, Guy A., Oakland, assignor to California Packing Corporation, San Francisco, Calif. Feeding means for pear peeling machines. 2,429,346; Oct. 21.
- Dunn, Guy A., Oakland, assignor to California Packing Corporation, San Francisco, Calif. Machine for paring, coring, and halving pears. 2,429,749; Oct. 28.
- Dunn, Jesse T.: *See*—  
Toussaint, Walter J., and Dunn.
- Dunn, John W., Alhambra, Calif. Venetian blind. 2,413,754; Jan. 7.
- Dunn, Joseph D., Assumption, Ill. Hitch release. 2,414,725; Jan. 21.
- Dunn, Roland H.: *See*—  
McWhirter, Eric M. S., Wolson, Dunn, and Shepard.
- Dunn, William C.: *See*—  
Denneen, Francis S., and Dunn.
- Dunn, William J., Winnetka, and R. R. Richolt, Tujunga, Calif., assignors, by mesne assignments, to General American Transportation Corporation, Chicago, Ill. Child's toilet seat. 2,415,237; Feb. 4.
- Dunn, William L., assignor, by mesne assignments, to apparatus. 2,429,406; Oct. 21.
- Belmont Radio Corporation, Chicago, Ill. Radio control
- Dunn, William T.: *See*—  
Neracher, Carl A., and Dunn.
- Dunniboo, John R., Corry, assignor, by mesne assignments, to Rohlm Manufacturing Company, Incorporated, Erie, Pa. Plural way valve. 2,420,588; May 13.
- Dunnihoo, John R., assignor to Rohlm Manufacturing Company, Inc., Erie, Pa. Valve. 2,420,589; May 13.
- Dunning, John W.: *See*—  
Fulmer, Ellis I., Dunning, and Fash.
- Dunning, Orville M., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Mounting device for an electrical circuit element. 2,414,143; Jan. 14.
- Dunning, Robert M., assignor to Waldorf Paper Products Company, St. Paul, Minn. Method and apparatus for sealing cartons by suction. 2,419,991; May 6.
- Dunsheath, Percy, Abinger, assignor to W. T. Henley's Telegraph Works Company Limited, Westcott, Dorking, England. Float. 2,415,487; Feb. 11.
- Dunsheath, Percy, Abinger, assignor to W. T. Henley's Telegraph Works Company Limited, Westcott, Dorking, England. Float. 2,415,488; Feb. 11.
- Dunsheath, Percy, Abinger, assignor to W. T. Henley's Telegraph Works Company Limited, Westcott, Dorking, England. Float. 2,415,489; Feb. 11.
- Duphily, Henry J., Port Arthur, Tex. Lathe chuck. 2,430,761; Nov. 11.
- Dupler, Raymond R., Toledo, Ohio. Illuminated globe structure. 2,433,747; Dec. 30.
- Duplex Printing Press Company, The, assignee: *See*—  
Blackley, James L., and Ross.
- Du Pont, E. I., de Nemours & Company, assignee: *See*—  
Alfthan, Johannes, and Fields.  
Alderice, Joseph M.  
Arnold, Luther E., Jr.  
Austin, Paul R.  
Balassa, Ladislaus.  
Bare, Paul O.  
Barrick, Paul L.  
Berry, Kenneth L.  
Biehn, Gordon F., and Cline.  
Biehn, Gordon E., and Kirby.  
Bigelow, Newell M.  
Blackburn, Newell F.  
Blake, Ralph K., Stanton, and Schulze.  
Blyler, Lee L., Clough, Hawley, and Pitman.  
Bousquet, Euclid W.  
Bousquet, Euclid W., and Goddin.  
Bradley, John J., and Regenbrecht.  
Bricker, Burton C.  
Brooks, Richard E.  
Browning, Harry.  
Brubaker, Merlin M., Roland, and Peterson.  
Burk, Robert E., Coffman, and Kalb.  
Burke, William J.  
Burrows, Lawton A.  
Burrows, Lawton A., Loving, Nydegger, and Smith.  
Cable, George W., and Richmond.  
Cairns, Theodore Le S.  
Campbell, Donald J.  
Carson, Boyce G.  
Cass, Oliver W.  
Cass, Oliver W., and Copelin.  
Charch, William H.  
Charch, William H., and Cramer.  
Charch, William H., and Underwood.  
Christ, Robert E., and Marks.  
Clem, Willis J., and Podolsky.  
Coffman, Donald D.  
Coffman, Donald D., and Ford.  
Coffman, Donald D., and Roland.  
Cramer, Richard D.  
Davis, Clyde O., Lawson, and Ver Bryck.  
Delnet, Joseph.  
Deyrup, Alden J.  
Dietrich, Melvin A., and Kirby.  
Dittmar, Harry R., and Loder.  
Dorough, George L.  
Downing, Frederick B., and Pedersen.  
Drew, Donald E.  
Earle, Norman E.  
Edgar, Donald E.  
Ellingboe, Ellsworth K.  
Ernsberger, Maurice L.  
Ernsberger, Maurice L., and Pinkney.



Du Pont, E. I., de Nemours & Company, assignee: *See—*  
Continued.

Ewing, Alvin L.  
Farlow, Mark W.  
Farlow, Mark W., and Lazier.  
Fassnacht, Hartwell H., and Woodbury.  
Fields, Reuben T.  
Fieltz, Frederick J.  
Filbert, William F.  
Flenner, Albert L.  
Flenner, Albert L., and Kaberg.  
Fletcher, David A., and Johnston.  
Fogg, Robert E.  
Ford, Thomas A.  
Foster, Henry D., and Larchar.  
Fox, Arthur L.  
Gilbert, Elbert R.  
Gray, Allen G.  
Gresham, William F.  
Gresham, William F., and Brooks.  
Gribbins, Myers F.  
Grigsby, William E.  
Grimm, Godfrey.  
Guenther, Arthur E., and Molyneux.  
Guy, Hubert G., and Dietz.  
Haeefe, Walter R.  
Hallowell, Alban T.  
Hallowell, Alban T., Foster, and Larchar.  
Hamblet, Clement H., and McAlevy.  
Hamilton, Lyle A., and Pedersen.  
Handforth, Stanley L., and Johnson.  
Hanford, William E., and Harmon.  
Hansley, Virgil L.  
Hansley, Virgil L., and Magill.  
Hanson, Victor F.  
Hardy, Vernal R.  
Harmon, Jesse.  
Harris, Charles R.  
Harris, Charles R., and De Atley.  
Harris, Charles R., and Sharples.  
Hartsfield, Ernest P., and Richmond.  
Heckert, Winfield W.  
Hershberger, Albert.  
Hetherington, Harry C.  
Hinegardner, Wilbie S., and Scott.  
Hinegardner, Wilbie S., and Walker.  
Hitt, Ira V.  
Hoffman, Raymond A.  
Hoffman, William A.  
Holmes, Harrison H., and Lawson.  
Holt, Harold S.  
Hoover, Fred W.  
Howk, Benjamin W.  
Howk, Benjamin W., and Jacobson.  
Howk, Benjamin W., and Richter.  
Hull, Richard O., and Hoffman.  
Huse, Herbert W., Faust, and Leininger.  
Ingersoll, Henry G.  
Izard, Emmette F.  
Izard, Emmette F., and Howk.  
Jacobson, Ralph A.  
Jennings, Andrew B.  
Jilk, Lawrence T.  
Joyce, Robert M., Jr.  
King, Arthur E.  
Kingerley, Richard W., Jr.  
Klabunde, Walter.  
Klein, David X.  
Kvalnes, Hamline M.  
Lang, Frederic A.  
Larson, Alfred T.  
Larson, Alfred T., and Loder.  
Latham, George H.  
Laughlin, Edwin R., Ayre, and Mitchell.  
Lazier, Wilbur A., Pavlic and Peppel.  
Leach, Lloyd L.  
Lecky, Herbert S.  
Leekley, Robert M.  
Levine, Arthur A., and Cass.  
Lewis, George L.  
Linch, Adrian L.  
Lindsey, Richard V., Jr., and Scott.  
Lindsten, Don C.  
Littler, Clarence A.  
Locke, Roy C.  
Loder, Donald J.  
Loder, Donald J., and Bruner.  
Loe, Justin B.  
Magill, Paul L.  
Maynard, Carl W., Jr., and Wiest.  
McAlevy, Ambrose, Strain, and Chance.  
McHaffie, Ivan R., and Streight.  
McQueen, David M.  
Middleton, Edmund B.  
Middleton, Edmund B., and Dawson.  
Mighton, Charles J.  
Mighton, Charles J., and Schroeder.  
Mitchell, James A.  
Mochel, Walter E.  
Moody, Frank B.  
Morgan, Paul W.  
Mortenson, Carl W.  
Murray, Otis W.

Du Pont, E. I., de Nemours & Company, assignee: *See—*  
Continued.

Murray, William S.  
Neal, Arthur M., and Verbanc.  
Nerlinger, Ludwig F.  
Noble, Max V.  
Olson, Carl M.  
O'Shaughnessy, Marion T., Jr.  
Paggi, Louis.  
Parnelee, Alfred E.  
Patterson, Gordon D., and Sloan.  
Peters, Franklin T.  
Peterson, Merlin D.  
Pikl, Josef.  
Pitzl, Gilbert.  
Pratt, Burt C.  
Pratt, Burt C., and Rothrock.  
Pratt, Burt C., and Salzberg.  
Quinn, Joseph L., and Spader.  
Raasch, Maynard S.  
Raasch, Maynard S., and Theobald.  
Reichert, Joseph S., and Hawkinson.  
Richards, John C.  
Richards, Lawrence M.  
Rigby, George W.  
Robertson, James A.  
Rodman, Ernest A.  
Rogers, Arthur O.  
Roland, John R., and Harmon.  
Rossander, Swanle S., Sparks, and Libby.  
Rothrock, Henry S.  
Salisbury, Leroy F.  
Salzenberg, Walter H., and Sveda.  
Scheiderbauer, Robert A.  
Schneider, Allan K.  
Schreiber, Richard S., and Schroeder.  
Schroeder, Herman E.  
Schroeder, Herman E., and Mighton.  
Schweikher, Ernest W.  
Schweitzer, Carl E.  
Scott, Samuel Le R.  
Shipp, Joseph H., Bacon, and Pedersen.  
Shipp, Joseph H., and Pedersen.  
Signaigo, Frank K., and Sly.  
Simons, Joseph H.  
Sloan, Clifford K.  
Smedberg, George E.  
Smith, Francis H., and Sparks.  
Smith, Joseph E., and Mitchell.  
Sperati, Carleton A.  
Stafford, Robert H.  
Stalnaker, Frederick M., and Shaver.  
Stamatoff, Gelu S.  
Stone, Robert W.  
Stryker, Harvey I., and Heuse.  
Sturgis, Bernard M.  
Sturgis, Bernard M., and Baum.  
Sullivan, David J.  
Sullivan, Roy W.  
Tauch, Ernest J.  
Thronson, Edgar A., and Mendolia.  
Tinker, John M., and Stallmann.  
Tippetts, Emerson A.  
Trepagnier, Joseph H., and Vaughn.  
Vaala, Gordon T., and Frank.  
Vana, Charles A.  
Verbanc, John J.  
Vielra, Nicholas R.  
Vincent, John R., and Etzel.  
Vinton, William H.  
Wagoner, Harvey E.  
Walker, Joseph F.  
Wall, William C., and Wilkens.  
Ward, Maurice L.  
Watkins, William W.  
Weber, Arthur G., and Bell.  
Weber, Arthur G., and Hamblet.  
Weinmayr, Viktor.  
Wernlund, Christian J., and Macon.  
Whitman, Gerald M.  
Wiley, Richard H.  
Wilson, Cyril D.  
Wilson, Howard R.  
Woodbridge, Richard G., III.  
Woodward, David W.  
Woodward, Harold E.  
Youel, John M.  
Youker, Mortimer A.  
Young, James H.

Du Pont, Edmund: *See—*

Mapes, Daniel, and du Pont.

Du Pont, Francis G., Utica, N. Y., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Gun barrel straightness testing apparatus. 2,422,294; June 17.

Du Pont, Richard C., Granogue, assignor to All American Aviation, Inc., Wilmington, Del. Method and apparatus for launching aircraft. 2,418,702; Apr. 8.

Dupont, Roland, Epernay, France. Rubber vulcanizing machine. 2,426,767; Sept. 2.

Du Pont, Stephen, Wilbraham, assignor to Indian Motorcycle Company, Springfield, Mass. Saddle for motorcycles and the like. 2,433,686; Dec. 30.



- Dupre, Henry P., New York, N. Y., assignor to Burndy Engineering Company, Inc. Compression die. 2,426,492; Aug. 26.
- Duramold Aircraft Corporation, assignee: *See*—Young, John.
- Durand & Huguenin A. G., Swiss firm of, assignee: *See*—De Niederhäusern, George, and Tschan.
- Durand & Huguenin S. A., assignee: *See*—Ratti, Roger, and Brandt.
- Durand, Samuel K., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electric valve protective system. 2,427,450; Sept. 16.
- Durant, Lyndon A., Chicago, Ill. Time controlled mechanism for phonograph apparatuses. 2,421,833; June 10.
- Durbec, Edouard K.: *See*—Parkes, John J., and Durbec.
- Durbin, Vernon, Newton, and M. Knobel, Arlington, Mass., assignors, by mesne assignments, to First Industrial Corporation, Wilmington, Del. Magnetic switch. 2,431,377; Nov. 25.
- Durbin, Votaw S., Ladue Village, Mo. Construction of load binders. 2,422,001; June 10.
- Durdin, Augustus C., Jr., assignee, et al.: *See*—Durdin, Augustus C., III.
- Durdin, Augustus C., Jr., Lincolnwood, Ill.; The Northern Trust Company, executor of said Augustus C. Durdin, Jr., deceased. Self-priming centrifugal pump. 2,420,420; May 13.
- Durdin, Augustus C., III, Rockford, Ill., assignor of twenty four per cent to L. H. Durdin, Franklin, Pa., and fifty two per cent to A. C. Durdin, Jr.; The Northern Trust Company, executor of said A. C. Durdin, Jr., deceased. Mechanical aerating device. 2,421,191; May 27.
- Durdin, Augustus C., III, Rockford, Ill., assignor to Graver Tank & Mfg. Co., Inc. Liquid treatment tank with a solids impeller means having a normally submerged drive wheel. 2,427,091; Sept. 9.
- Durdin, Lewis H., assignee, et al.: *See*—Durdin, Augustus C., III.
- Durfee, Benjamin M.: *See*—Hamilton, Francis E., and Durfee.
- Durham, Hobart N.: *See*—Finnegan, George B., Jr., and Durham.
- Durham, Wallace, San Marino, Calif., assignor to Stauffer Chemical Company. 2,2-bis(p-chlorophenyl)-1,1,1-trichloroethane and sulfur insecticide. 2,414,193; Jan. 14.
- Durheim, Hans H.: *See*—Zellweger, Carl, and Durheim.
- Durkee, Clarence L.: *See*—Messing, Hjalmar S., and Durkee.
- Duriron Company, Inc., The, assignee: *See*—Bettcher, Mortimer L. Jacobsen, Oystein.
- Duro Persian Manufacturing Co., Inc., assignee: *See*—Unger, Abraham.
- Du Rose, Arthur H., Euclid, assignor to The Harshaw Chemical Company, Elyria, Ohio. Manufacture of nickel and cobalt salts. 2,431,997; Dec. 2.
- Duro-Test Corporation, assignee: *See*—Bayne, William F.
- Durst, George, assignor to Metals & Controls Corporation, Attleboro, Mass. Composite metal solder. 2,431,611; Nov. 25.
- Durst, George, assignor to Metals & Controls Corporation, Attleboro, Mass. Electrical contact. 2,433,687; Dec. 30.
- Durst, Paul H., Cleveland, Ohio, assignor to General Electric Company. Automatic mount flashing machine. 2,429,407; Oct. 21.
- Duryee, Jenme C., Fort Wayne, Ind., assignor to General Electric Company. Current collector contact member. 2,430,279; Nov. 4.
- Duschinsky, Robert, Essex Fells, assignor to Hoffmann-La Roche, Inc., Roche Park, Nutley, N. J. 4-methyl-5-imidazolone-(2)-caproic acid and esters thereof. 2,430,006; Nov. 4.
- Dussollier, Maurice, Paris, Seine, assignor to Etablissements Robbe Freres, Paris, France. Preparation of siccativ oils. 2,433,077; Dec. 23.
- Dustan, Frank, Fitchburg, Mass., assignor to National Lead Company, New York, N. Y. Drum screen. 2,423,442; July 8.
- Dusterwald, Frank, Brooklyn, N. Y. Tumbler controlled locking device. 2,430,711; Nov. 11.
- Dustin, Howard M., Oakland, Calif., assignor to Marchant Calculating Machine Company. Carriage position control mechanism. 2,428,206; Sept. 30.
- Dutcher, Harris A., Borger, Tex., assignor to Phillips Petroleum Company. Production of monochloro derivatives of unsaturated nitriles. 2,419,488; Apr. 22.
- Dutoit, André, Le Locle, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Electric abrasive projector. 2,425,520; Aug. 12.
- Dutra, Joseph, assignee: *See*—Dutra, Manuel J.
- Dutra, Manuel J., assignor of twenty-five per cent to J. Dutra, Sacramento, Calif. Obstruction removing attachment for drains. 2,430,976; Nov. 18.
- Dutro, Harold, trustee, assignee, et al.: *See*—French, Elby E.
- Duval, Fernand C., New York, N. Y. Coat hanger for chairs. 2,417,866; Mar. 25.
- Duvall, Stanley A., Chicago, Ill. Kangaroo toy. 2,417,157; Mar. 11.
- Duzzel Corporation, assignee: *See*—Handy, James O.
- Dvorak, James J.: *See*—Christensen, Alfred C., and Dvorak.
- Dworkowski, John, Elizabeth, and J. E. Quigley, Fanwood, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for treating tools. 2,418,338; Apr. 1.
- Dworschack, Robert G., Milwaukee, Wis., and E. M. Burdick, Peoria, Ill., assignors to United States of America, as represented by the Secretary of Agriculture. Saccharification process. 2,415,734; Feb. 11.
- Dwyer, Martin, Hewlett Bay Park, assignor to Aerial Products, Inc., Merrick, Long Island, N. Y. Smoke generator. 2,417,592; Mar. 18.
- Dwyer, Raymond J.: *See*—Barrie, Arthur J., and Dwyer.
- Dyar, Hugh H., Warrensville, Ohio, assignor to The Linde Air Products Company. Method of and apparatus for cladding metal bodies in transit. 2,414,511; Jan. 21.
- Dybvig, Henry G.: *See*—Mayne, Robert A., and Dybvig.
- Dyck, Herbert F., Wichita, Kans. Notebook. 2,421,487; June 3.
- Dye, Glen M., and R. B. Maddock, assignors to Pako Corporation, Minneapolis, Minn. Method and apparatus for processing strip of photo print paper. 2,428,790; Oct. 14.
- Dye, Harry M., and R. B. Maddock, assignors to Pako Corporation, Minneapolis, Minn. Film hanger. 2,425,603; Aug. 12.
- Dyer, Charles E., Attleboro Falls, Mass. Finger ring. 2,431,232; Nov. 18.
- Dyer, Charles W., Stratton, Maine. Change-speed mechanism for lathes. 2,426,299; Aug. 26.
- Dyer, Harry E.: *See*—Jessop, Stuart M., and Dyer.
- Dyer, Lloyd W., Wilkinsburg, and H. D. Dorfman, Forest Hills, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Shockproof circuit breaker. 2,416,163; Feb. 18.
- Dykeman, Reuben G., J. C. Shaw, and A. C. Hoffman, assignors to United Aircraft Products, Inc., Dayton, Ohio. Congealable liquid conditioning device. 2,419,634 Apr. 29.
- Dykes, Roy L., Compton, Calif. Steam iron having regenerating means. 2,431,545; Nov. 25.
- Dykoski, Walter J., Minneapolis, Minn., assignor to General Mills, Inc. Glass surface plate. 2,420,637; May 13.
- Dyrek, John E., and W. L. McCaslin, assignors to Armour and Company, Chicago, Ill. Apparatus for stuffing casings. 2,427,202; Sept. 9.
- Dysart, Ronald R., assignor to F. H. Varney, an individual doing business as D-V Welding Controls, Oakland, Calif. Automatic control of alternating current-direct current motor-generator set. 2,427,127; Sept. 9.
- Dyson, Ernest F., Wolcott, assignor to The Bristol Company, New Haven, Conn. Resilient zero stop. 2,420,527; May 13.
- Dziedzic, Nicholas J.: *See*—McKee, Harry H., Dziedzic, and Straeten.
- Dzurinda, Michael, assignor to L. R. Landay, Farrell, Pa. Fastener for closures. 2,428,207; Sept. 30.
- Dzus, William, West Islip, N. Y. Fastening device. 2,424,603; July 29.
- Dzus, William, West Islip, N. Y. Fastening means. 2,424,604; July 29.
- E. A. Laboratories, Inc., assignee: *See*—Meyerhoefer, Carl E.
- Esouros, Constantine E. Unger, Sidney.
- E & G Machine and Tool Company, assignee: *See*—Folt, William.
- Eagle Pencil Company, assignee: *See*—Chesler, Isidor.
- Hanle, Benjamin W.
- Eakins, John F., Evanston, assignor to J. P. Seeburg Corporation, Chicago, Ill. Multiselective phonograph. 2,416,436; Feb. 25.
- Earhart, Edward C., Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical coil and making the same. 2,415,582; Feb. 11.
- Earhart, Harold W., assignor to Beech Aircraft Corporation, Wichita, Kans. Airplane wing. 2,432,396; Dec. 9.
- Earl, John A., La Grange, and G. L. Knittle, Brookfield, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Removing insulation. 2,432,868; Dec. 16.
- Earl, Robert J., assignee: *See*—Dahlander, Noel L.
- Earl, Roy E., Long Beach, Calif. Garment hanger. 2,419,767; Apr. 29.
- Earle, Guyon L. C., Forest Hills, N. Y., assignor, by direct and mesne assignments, to H. S. Wertz, as trustee. Food supporting rack for refrigerator drawers. 2,425,232; Aug. 5.
- Earle, Guyon L. C., Forest Hills, N. Y., assignor to H. S. Wertz, trustee. Setback refrigerator. 2,432,397; Dec. 9.



- Earle, Ralph H., Wauwatosa, and R. H. Amundson, Milwaukee, assignors to Line Material Company, South Milwaukee, Wis. High-voltage circuit interrupter. 2,429,347; Oct. 21.
- Earle, William L.: *See*—  
Estill, Edwin V., and Earle.
- Earley, Norman B.: *See*—  
Earley, Samuel C. and N. B., Sanders, Skareen, Davies, and Hughes.
- Earley, Roy C., and J. L. Kimball, Danvers, assignors to Ruggles-Klingemann Mfg. Co., Salem, Mass. Hot-water system and control therefor. 2,429,408; Oct. 21.
- Earley, Samuel C. and N. B., E. J. Sanders, W. C. Skareen, R. L. Davies, and J. A. Hughes, Toledo, Ohio, assignors, by mesne assignments, to Evans Products Company, Detroit, Mich. Cooling system, thermostat control. 2,423,140; July 1.
- Early, Rupert N.: *See*—  
Clauson, Gustav A., and Early.
- Earnshaw, Alvin R., Oildale, Calif. Engine. 2,428,791; Oct. 14.
- Earp, Charles W., London, W. C. 2, assignor to Standard Telephones and Cables Limited, London, England. Radio distance meter. 2,417,815; Mar. 25.
- Earp, Charles W., London, W. C. 2, assignor to Standard Telephones and Cables Limited, London, England. Detection of obstacles by electromagnetic waves. 2,421,020; May 27.
- Earp, Charles W., London, W. C. 2, assignor to Standard Telephones and Cables Limited, London, England. Distance measuring system. 2,423,088; July 1.
- Earp, Charles W., London, W. C. 2, assignor to Standard Telephones and Cables Limited, London, England. Visual course indicator for radio directive systems. 2,424,560; July 29.
- Earp, Charles W., London, W. C. 2, assignor to Standard Telephones and Cables Limited, London, England. Pulsed carrier frequency demodulator. 2,426,187; Aug. 26.
- Earp, Charles W., London, W. C. 2, England, assignor to International Standard Electric Corporation, New York, N. Y. Superheterodyne radio receiver having compensating means for frequency drift of the received carrier wave. 2,433,350; Dec. 30.
- Earp, Charles W., London, England, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Radio beacon. 2,433,351; Dec. 30.
- Earp, Charles W., I. R. J. James, and R. F. Cleaver, London, W. C. 2, assignors to Standard Telephones and Cables Limited, London, England. Radio direction finding equipment. 2,423,064; June 24.
- Earp, Charles W., and J. D. Weston, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Indicating system for radio blind landing systems. 2,431,317; Nov. 25.
- Earp, James F., Detroit, Mich., assignor to The American Paper Bottle Company, Toledo, Ohio. Apparatus for cooling containers. 2,415,677; Feb. 11.
- Easley, Gilbert J., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,419,127; Apr. 15.
- Easley, Gilbert J., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,420,872; May 20.
- Eason, Sidney L., Charleston, S. C. Roofing or surfacing material. 2,420,421; May 13.
- Easson, Alexander P. T.: *See*—  
Newbery, George, and Easson.
- Eastburg, Clifford L., assignor to The Timken Roller Bearing Company, Canton, Ohio. Roller bearing. 2,420,820; May 20.
- Easter, Donald P.: *See*—  
Bludworth, Joseph E., and Easter.
- Easterberg, Gustave L., Pleasant Ridge, and R. A. MacArthur, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company. Manufacture of hydraulic cement products. 2,422,344; June 17.
- Easterberg, Gustave L., Pleasant Ridge, and R. A. MacArthur, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company. Manufacture of hydraulic cement products. 2,422,345; June 17.
- Easterday, Elton E., St. Louis, Mo. Concrete retaining wall. 2,413,867; Jan. 7.
- Eastern Air Devices, Inc., assignee: *See*—  
Skrobisch, Alfred.
- Eastern Steel Products Limited, assignee: *See*—  
Buehler, Allan M.
- Eastern Tool & Mfg. Co., assignee: *See*—  
Anderson, Carl E.
- Eastes, John C., Weybridge, assignor to Vickers-Armstrongs Limited, Westminster, London, England. Machine for bending tubes, bars, and the like. 2,430,217; Nov. 4.
- Eastman, du Bois, Scarsdale, N. Y., and C. Richker, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y. Catalytic conversion of hydrocarbon oils. 2,414,256; Jan. 14.
- Eastman, Irving, New York, N. Y. Worm press type juice extracting device. 2,428,869; Oct. 14.
- Eastman Kodak Company, assignee: *See*—  
Agett, Albert H.  
Aklin, George H.  
Allen, Charles F. H., and Jones.  
Allen, Charles, F. H., and Van Allan.  
Altman, Fred E.  
Altman, Fred E., and Wyland.  
Arnold, William A., and Norton.  
Brimer, Marshall R., Magoffin, and Von Bramer.  
Brown, Gordon H., Vittum, and Jelley.  
Capstaff, John G.  
Carroll, Burt H., and Brooker.  
Carroll, Burt H., Brooker, and Spence.  
Chechak, Jonas J., and Carroll.  
Crabtree, John I., and Eaton.  
Creighton, Philip E.  
Crumrine, Chester W.  
Davis, Harry L., and Farwell.  
Dickey, Joseph B., and McNally.  
Dickey, Joseph B., and Stuckwisch.  
Dietrich, Michael.  
Edgerton, Richard O.  
Fallesen, George E.  
Galley, Hollis T.  
Glassey, Courtney Q.  
Guell, Charles H.  
Hagemeyer, Hugh J., Jr.  
Harvey, Douglass C.  
Hicks, Lester M.  
Hopkins, Roy S.  
Hull, David C.  
Hull, David C., and Aggett.  
Hutchison, Miller R., Jr.  
Hutchison, Miller R., Jr., and Harmon.  
Hutchison, Miller R., Jr., and Wehr.  
Kenyon, William O., and Minsk.  
Kenyon, William O., and Murray.  
Kenyon, William O., and Unruh.  
Kenyon, William O., and Van Campen.  
Keyes, Grafton H.  
Knott, Edward B.  
Lee, Charles M.  
Leonhard, Lee W., and Collin.  
Lowe, Wesley G.  
Luboshez, Benjamin E.  
MacNeille, Stephen M.  
McLeod, John H., and Turner.  
McNally, James G., and Dickey.  
Mihalyi, Joseph.  
Minsk, Louis M., and Unruh.  
Morrison, Charles A.  
Palmer, Kendrick, Kugler, and Bryans.  
Russell, John, and Houck.  
Salminen, Ilmari F., and Weissberger.  
Schade, Willy.  
Schubert, Alvin E., and Haelen.  
Scull, Herbert G.  
Stauffer, Robert E., and Smith.  
Stolber, Joseph.  
Strain, William H., and Dickey.  
Sun, Kuan-han.  
Sun, Kuan-han, and Callear.  
Sun, Kuan-han, and Huggins.  
Taylor, George J.  
Trivelli, Adrian P. H., and Smith.  
Turner, John R.  
Van Allan, James A., and Jones.  
Unruh, Cornelius C., and Kenyon.  
Vittum, Paul W., and Arnold.  
Weissberger, Arnold, and Kurtzner.  
Werth, Lloyd L.  
Wittel, Otto, Koch, and Boon.  
Young, William A.  
Yule, John A. C.
- Eastman Mfg. Company, assignee: *See*—  
Ansoerge, Louis E.
- Eastman Oil Well Survey Company, assignee: *See*—  
Schadel, Charles H.
- Easton, Allan, Long Island City, N. Y., assignor to Emerson Radio and Phonograph Corporation. Pulse widening circuits. 2,419,340; Apr. 22.
- Eastwood, Sylvander C., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Conversion of hydrocarbons. 2,419,517; Apr. 22.
- Eastwood, Sylvander C., and L. P. Evans, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Process and apparatus for thermal conversion of hydrocarbons. 2,432,298; Dec. 9.
- Eaton, Bruce G., Jr., Bexley, and W. O. Meyer, and C. H. Cannon, Jr., Columbus, Ohio, and L. G. Raiche, Williamsville, N. Y., assignors to Curtiss-Wright Corporation. Rudder pedal assembly. 2,420,528; May 13.
- Eaton, Charles A., Company, assignee: *See*—  
Eaton, Charles C.  
Eaton, Charles C. and C. C., Jr.  
Eaton, Charles C., Jr.: *See*—  
Eaton, Charles C. and C. C., Jr.  
Eaton, Charles C., assignor to Charles A. Eaton Company, Brockton, Mass. Applying backstays to shoe uppers. 2,421,604; June 3.  
Eaton, Charles C., Brockton, and C. C. Eaton, Jr., Hingham, assignors to Charles A. Eaton Company, Brockton, Mass. Cushion shoe and making same. 2,421,605; June 3.



- Eaton, Charles F., Methuen, assignor to Bennett Incorporated, Cambridge, Mass. Dispensing device with tipping trap chamber. 2,422,719; June 24.
- Eaton, George T.: *See*—  
Crabtree, John I., and Eaton.
- Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Reversal responsive switch. 2,423,693; July 8.
- Eaton Laboratories, Inc., assignee: *See*—  
Stillman, William B., and Scott.
- Eaton, Lewis B., and R. W. Vergobbi, assignors to Pneumatic Scale Corporation, Limited, Quincy, Mass. Apparatus for producing tea, coffee, or similar bags. 2,430,280; Nov. 4.
- Eaton, Lewis B., and R. W. Vergobbi, assignors to Pneumatic Scale Corporation, Limited, Quincy, Mass. Web feeding mechanism. 2,430,281; Nov. 4.
- Eaton Manufacturing Company, assignee: *See*—  
Dostal, James J.  
Findley, Howard J.  
Hoern, Joseph H.  
Noreyko, Nicholas.  
Voorhies, Carl.
- Eaton, Milton: *See*—  
Andersen, Arthur H., Eaton, and Holm.
- Eaton, Samuel E., Brookline, Mass., assignor to A. D. Little, Inc. Method of polishing metal surfaces. 2,416,294; Feb. 25.
- Eaton, Thomas T., Haddon Heights, N. J., assignor to Radio Corporation of America. Electron discharge device. 2,416,914; Mar. 4.
- Eaton, Thomas T., Haddon Heights, N. J., assignor to Radio Corporation of America. Recorder for radio locators. 2,422,295; June 17.
- Eaton, Wilfred A., assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio. Fluid pressure control mechanism. 2,415,128; Feb. 4.
- Eaton, Wilfred A., assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio. Fluid pressure control system. 2,419,443; Apr. 22.
- Eaton, Wilfred A., assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio. Fluid pressure control mechanism. 2,423,012; June 24.
- Eaton, Wilfred A., assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio. Fluid pressure control mechanism for vehicle steering gear. 2,424,806; July 29.
- Eaton, Wilfred A., assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio. Fluid pressure control system for aircraft. 2,430,808; Nov. 11.
- Eaves Sound Projectors, Inc., assignee: *See*—  
Eaves, William C.
- Eaves, William C., Elyria, Ohio, assignor to Eaves Sound Projectors, Inc., New York, N. Y. Pneumatic sound producing device. 2,428,269; Sept. 30.
- Eaves, William C., Elyria, Ohio, assignor to Eaves Sound Projectors, Inc., Dover, Del. Support for sound projecting apparatus. 2,428,270; Sept. 30.
- Ebel, Robert H.: *See*—  
Kuh, Erwin, Dhein, and Ebel.
- Eberhart, Arthur H., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Air conditioning apparatus. 2,417,743; Mar. 18.
- Eberhart, Arthur H., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Air conditioning apparatus. 2,420,939; May 20.
- Eberhart, Arthur H., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Air-conditioning apparatus. 2,433,104; Dec. 23.
- Eberhart, Clem, Goshen, Ind. Sleeve puller. 2,424,681; July 29.
- Ebers, Earl S., Nutley, N. J., assignor to United States Rubber Company, New York, N. Y. Composition containing alkaline latex and resorcinol-formaldehyde-amine resin. 2,417,975; Mar. 25.
- Ebert, Howard F., Omaha, Nebr., and A. W. Keuffel, Essex Fells, assignors to Keuffel & Esser Company, Hoboken, N. J. Drafting instrument. 2,428,699; Oct. 7.
- Ebert, Walter, assignor to Tri-Clover Machine Co., Kenosha, Wis. Sanitary pipe joint. 2,424,682; July 29.
- Eby, Hugh H., assignee: *See*—  
Fox, Benjamin.
- Eck, Robert N.: *See*—  
Adriansen, John R., and Eck.
- Eckel, Arthur F., assignor to M. S. Eckel, Chicago, and L. W. Pickett, La Grange, Ill. Calculator and decimal point locator. 2,426,601; Sept. 2.
- Eckel, Donald, assignee: *See*—  
Roth, Dennis D.
- Eckel, Myrtle S., assignee, et al.: *See*—  
Eckel, Arthur F.
- Eckel, Oliver C., Belmont, Mass. Clip. 2,427,392; Sept. 16.
- Eckel, Oliver C., Belmont, Mass. Making clips. 2,427,393; Sept. 16.
- Eckel, Vincent W., Tujunga, Calif., assignor to Adel Precision Products Corp. Plastic valve. 2,417,242; Mar. 11.
- Eckert, Minna L., New York, N. Y. Hand loom. 2,427,093; Sept. 9.
- Eckert, Walter, executors, et al.: *See*—  
Hoof, Addison C.
- Eckhard, William K.: *See*—  
Horton, Albert J., and Eckhard.
- Eckhoff, Herman, assignor of one-half to H. Jacobs, Cedarhurst, N. Y. Handle for cook pots. 2,425,604; Aug. 12.
- Eckman, George E., Oradell, N. J., assignor to American Can Company, New York, N. Y. Piercing device for filling batteries. 2,424,807; July 29.
- Eckman, Meril L., Canton, assignor to Republic Steel Corporation, Cleveland, Ohio. Galvanizing apparatus. 2,424,808; July 29.
- Ecks, John, Milwaukee, Wis. Exerciser. 2,433,548; Dec. 30.
- Eckstein, George R., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Metal cupping process. 2,415,940; Feb. 18.
- Eckstein, James F., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Apparatus for producing heat insulating handles. 2,421,058; May 27.
- Eclipse Aviation Corporation, assignee: *See*—  
Mock, Frank C.
- Econcrete Corporation of America, assignee: *See*—  
Hayes, Hal B.
- Economic Machinery Company, assignee: *See*—  
Carter, Sidney T.
- Economic Stampings, Limited, assignee: *See*—  
Kilbourn, Thomas.
- Ecusta Paper Corporation, assignee: *See*—  
Happ, Edwin L.  
Heygel, Paul R.
- Edberg, Per, Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Low-pressure absorption refrigerating system including a liquid pump arrangement. 2,430,047; Nov. 4.
- Eddington Metal Specialty Company, assignee: *See*—  
Czarnecki, Walter.
- Eddy, Glen M., Kansas City, Kans., assignor to The Roll-O-Matic Corporation, Denver, Colo. Tire chain. 2,415,583; Feb. 11.
- Eddy, Harold C., Los Angeles, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Removing impurities from oils. 2,417,637; Mar. 18.
- Eddy, William C.: *See*—  
Lake, Burton G., and Eddy.
- Eddy, William R.: *See*—  
St. Clair, Theodore A., and Eddy.
- Edelman, Abraham: *See*—  
De Giers, Clarence A., and Edelman.
- Edelmann, Leo, Chicago, Ill. Making hose couplings. 2,430,921; Nov. 18.
- Edelman, Sam A., assignee, et al.: *See*—  
Jasinski, Anthony F.
- Edelstein, Sidney M., Elizabeth, N. J. Dissolving cellulose. 2,419,341; Apr. 22.
- Edelstein, Sidney M., Elizabeth, N. J. Method and composition for waterproofing. 2,426,300; Aug. 26.
- Edelston, Murray G., Chicago, Ill. Brassiere. 2,418,016; Mar. 25.
- Edenberg, Albin A., Wilmette, Ill. Gauge for setting box tool blades. 2,415,474; Feb. 11.
- Edens, Walter W., Wauwatosa, Wis. Welding rod. 2,430,419; Nov. 4.
- Edgar Brothers Company, assignee: *See*—  
Leek, Thomas G.
- Edgar, David: *See*—  
Knowlton, Cutler D., and Edgar.
- Edgar, David, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for treating sheet materials. 2,433,352; Dec. 30.
- Edgar, Donald E., Philadelphia, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Resinous compositions. 2,413,697; Jan. 7.
- Edgar, Kenneth L., and H. H. Gregg, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Manufacture of fuel tanks. 2,415,032; Jan. 28.
- Edgar, Kenneth L., Cuyahoga Falls, F. W. Stavely, Akron, Ohio, and C. K. Novotny, Des Moines, Iowa, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Fibrous laminate and process of making same. 2,424,923; July 29.
- Edgar, Robert L., and C. H. Tipton, assignors to The Watt Car & Wheel Company, Barnesville, Ohio. Car construction. 2,414,726; Jan. 21.
- Edgar, Victor R., Rockton, assignor to Warner Electric Brake Manufacturing Company, South Beloit, Ill. Brake mechanism. 2,422,187; June 17.
- Edge, Stanley H., Lincoln, England. Controlling clutch and brake mechanism of road and like vehicles. 2,433,443; Dec. 30.
- Edgerton, Harold E., Belmont, Mass. Electric system for producing intermittent or flashing light. 2,426,602; Sept. 2.
- Edgerton, Richard O., assignor to Eastman Kodak Company, Rochester, N. Y. Dichromate bleach bath containing a wetting agent and bleaching therewith. 2,428,208; Sept. 30.
- Edgewater Steel Company, assignee: *See*—  
Wikander, Oscar R.
- Edinger, Charles C., Flushing, N. Y. Arch support. 2,433,034; Dec. 23.



- Edington, William A., Shreveport, La. Shoe polishing machine. 2,427,768; Sept. 23.
- Edison-Splitdorf Corporation, assignee: *See*—Nowosielski, Edward B.
- Edison, Thomas A., Incorporated, assignee: *See*—Clark, Winslow B. M.  
Dann, Charles W., and Somers.  
Hornbostel, John.  
Kelly, Frederick G.  
Proctor, George N.  
Somers, Richard M.  
Somers, Richard M., and Van Camp.  
Zar, Jacob L.
- Edison Wood Products, Incorporated, assignee: *See*—Webb, Charles E.
- Edmonds, Eugene, assignor to Henry Vogt Machine Co., Louisville, Ky. Water distributing ferrule for vertical tube heat exchangers. 2,424,441; July 22.
- Edmonds, Frank W., St. Albans, assignor to Federal Telephone & Radio Corporation, New York, N. Y. Transformer. 2,424,973; Aug. 5.
- Edmonson, William H., Jr., Bridgewater, Va. Featherable pin type oarlock. 2,424,605; July 29.
- Edson, Kenneth C., Los Angeles, Calif., and F. E. Fisher, Pawhuska, assignors to Skelly Oil Company, Tulsa, Okla. Catalysts for hydrocarbon conversion. 2,419,342; Apr. 22.
- Edson, Kenneth C., and F. E. Fisher, Pawhuska, assignors to Skelly Oil Company, Tulsa, Okla. Preparing catalysts. 2,419,343; Apr. 22.
- Edson, Noel M., Independence, and E. B. Hoback, Kansas City, Mo., assignors to Remington Arms Company, Inc., Bridgeport, Conn. Selecting mechanism. 2,415,941; Feb. 18.
- Edson, Noel M., Independence, and E. B. Hoback, Kansas City, Mo., assignors to Remington Arms Company, Inc., Bridgeport, Conn. Rotary belt loading machine with cartridge push rods. 2,432,398; Dec. 9.
- Edson, William A., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical testing system. 2,414,456; Jan. 21.
- Edwards, John, assignor to C. L. Brackett, Detroit, Mich. Making colloidal dispersions of a rubber-like reaction product of an inorganic polysulfide and an olefin dihalide. 2,419,060; Apr. 15.
- Edwards, Charles F., Red Bank, and K. G. Jansky, Little Silver, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. High-frequency direction finder. 2,419,946; May 6.
- Edwards, Charles R., Houston, Tex.; F. R. Edwards executrix of said Charles R. Edwards, deceased. Pipe tap. 2,427,524; Sept. 16.
- Edwards, Clarence K., Spokane, Wash. Holder. 2,432,611; Dec. 16.
- Edwards and Company, Inc., assignee: *See*—Edwards, Robert S.  
Miller, Christian.
- Edwards, Eldred E.: *See*—Eldredge, Kenneth R., and Edwards.
- Edwards, Emmett L., Washington, D. C. Semi-self-closing handbag. 2,431,030; Nov. 18.
- Edwards, Frances R., executrix: *See*—Edwards, Charles R.
- Edwards, Hilbert E., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Laundry apparatus. 2,425,788; Aug. 19.
- Edwards, John T., Columbus, Ohio. Metallic railing construction. 2,431,546; Nov. 25.
- Edwards, Lawrence J., assignor to A. Boake, Roberts & Company Limited, Stratford, London, England. Production of aluminum salts of organic acids. 2,420,233; May 6.
- Edwards, Martin A.: *See*—Alexanderson, Ernst F. W., Edwards, and Bowman.
- Edwards, Martin A., Schenectady, N. Y., assignor to General Electric Company. Follow-up control system. 2,414,689; Jan. 21.
- Edwards, Martin A., assignor to General Electric Company, Schenectady, N. Y. Positional control system. 2,414,690; Jan. 21.
- Edwards, Martin A., Schenectady, N. Y., assignor to General Electric Company. Selsyn controlled electric motor system. 2,425,605; Aug. 12.
- Edwards, Martin A., assignor to General Electric Company, Schenectady, N. Y. Electrical control device. 2,432,399; Dec. 9.
- Edwards, Martin A., Scotia, N. Y., assignor to General Electric Company. Antenna. 2,415,678; Feb. 11.
- Edwards, Martin A., Scotia, N. Y., assignor to General Electric Company. Selsyn controlled electric motor system. 2,424,809; July 29.
- Edwards, Martin A., Scotia, N. Y., assignor to General Electric Company. Electric valve control circuit. 2,425,606; Aug. 12.
- Edwards, Martin A., Scotia, and H. M. Ogle, Schenectady, N. Y., assignors to General Electric Company. Follow-up control system. 2,414,936; Jan. 28.
- Edwards, Martin A., Scotia, and H. M. Ogle and G. A. Hoyt, Schenectady, N. Y., assignors to General Electric Company. Antenna. 2,415,679; Feb. 11.
- Edwards, Martin A., Scotia, and H. M. Ogle, Schenectady, N. Y., assignors to General Electric Company. Control system for aircraft turbosuperchargers. 2,425,607; Aug. 12.
- Edwards, Miles L., Longview, Wash. Vapor separating pump and impeller. 2,422,956; June 24.
- Edwards, Paul G., Verona, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Plotting board. 2,419,203; Apr. 22.
- Edwards, Paul G., Verona, N. J., and D. D. Robertson, Hartsdale, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. System for locating the source of an explosion wave. 2,424,561; July 29.
- Edwards, Robert S., New Canaan, Conn., assignor to Edwards and Company, Inc. Method and apparatus for stacking and tying medical compresses or the like. 2,418,550; Apr. 8.
- Edwards, William K., Big Spring, Tex. Mud hook. 2,423,759; July 8.
- Edwards, William S.: *See*—Voight, Henry G., and Edwards.
- Eek, Albin C., Webster Groves, Mo., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,421,777; June 10.
- Egan, Charles H., Belmont, A. J. Leydon, Waltham, and J. P. Fahey, assignors to Dewey and Almy Chemical Company, North Cambridge, Mass. Dispersion of rubber in polar organic liquid media. 2,433,656; Dec. 30.
- Eger, Ernst, Los Angeles, Calif., assignor to United States Rubber Company, New York, N. Y. Electrically heated radiator. 2,432,400; Dec. 9.
- Egerton, Charles O.: *See*—Koch, Gustav H., and Egerton.
- Edge, Klaus, Mount Lebanon, Pa., assignor to Carnegie-Illinois Steel Corporation. Recovering coating material from melted electrolytically coated continuous strip material. 2,428,362; Oct. 7.
- Eggert, Ronald E., Burbank, Calif., assignor to Adel Precision Products Corp. Sheet metal nut. 2,417,243; Mar. 11.
- Eggert, Ronald E., Burbank, Calif., assignor to Adel Precision Products Corp. Threadless nut. 2,427,769; Sept. 23.
- Eggert, Ronald E., and L. C. Brose, Burbank, Calif., assignors to Adel Precision Products Corp. Hanger for cables and the like. 2,417,244; Mar. 11.
- Eggert, Ronald E., and L. C. Brose, Burbank, Calif., assignors to Adel Precision Products Corp. Self-locking clip. 2,417,245; Mar. 11.
- Eggertsen, Frank T., Oakland, and H. H. Voge, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Catalytic dehydrogenation. 2,414,585; Jan. 21.
- Eggleston, Allen J., assignor to Ekco Products Company, Chicago, Ill. Making kitchen tools. 2,430,977; Nov. 18.
- Eggleston, Allen J., assignor to Ekco Products Company, Chicago, Ill. Making kitchen tools. 2,432,299; Dec. 9.
- Eggleston, Erryl G., South Gate, Calif. Portable barbecue. 2,419,344; Apr. 22.
- Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Distillation of hydrocarbonaceous solids. 2,414,586; Jan. 21.
- Egly, Richard S.: *See*—Stengel, Leonard A., and Egly.
- Egly, William D., South Bend, Ind. Bottle carrier. 2,420,069; May 6.
- Egwin, Joseph, Rockland, Mass. Punch device. 2,417,638; Mar. 18.
- Egry Register Co., The, assignee: *See*—Ritzert, Robert W.
- Ehemann, George C., Jr., Edgewood, and P. H. Fickenschner, Duquesne, Pa., assignors to Carnegie-Illinois Steel Corporation. Automatic timing control scarfing apparatus. 2,424,270; July 22.
- Ehle, George E.: *See*—Almy, Richard, and Ehle.
- Ehle, George E., Lancaster Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Gasket material and making the same. 2,416,295; Feb. 25.
- Ehret, John, Jr., Trenton, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Filament scraper. 2,421,319; May 27.
- Ehrgott, Karl, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Gas purifier and sterilizer. 2,418,359; Apr. 1.
- Ehrhardt, Robert A., New Providence, and R. G. Humphrey, Madison, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Making contact wires. 2,429,222; Oct. 21.
- Ehrke, Louis F.: *See*—Slack, Charles M., and Ehrke.
- Ehrlich, Josef, New York, N. Y. Making bodies of cork. 2,430,922; Nov. 18.
- Ehrling, Gunnar E., assignor to The Murray Corporation of America, Detroit, Mich. Tumbler type clothes washing machine having squeeze bar therein. 2,431,925; Dec. 2.
- Ehrsam, Max: *See*—Mynssen, Jacob W., Ehrsam, and Künzl.
- Eichinger, Philippe E. H., Woodbridge, N. J., assignor to General Cable Corporation, New York, N. Y. Stop mechanism. 2,419,518; Apr. 22.
- Eichinger, Philippe E. H., Woodbridge, N. J., assignor to General Cable Corporation, New York, N. Y. Fault detector. 2,433,444; Dec. 30.



- Eichner, Edward R., Montclair, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Curb pump. 2,414,030; Jan. 7.
- Eichorst, Herman H., San Diego, Calif. Safety wire twisting apparatus. 2,425,871; Aug. 19.
- Eickmann, Olin: *See*—  
Carlson, Harold A., and Eickmann.
- Eldam, Carl L., Lawrence, Mass. Dermotome. 2,428,018; Sept. 30.
- Eide, Guy R., Detroit, Mich. Collapsible display stand. 2,433,748; Dec. 30.
- Eldman, Guy G., Houston, Tex. Crutch. 2,429,409; Oct. 21.
- Eigenberger, Elroy I., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Synchronous motor control system. 2,424,227; July 22.
- Eigenbrode, Edwin M.: *See*—  
Hopkins, Cecil W., and Eigenbrode.
- Ellenberg, Eleanor, assignee: *See*—  
Ellenberg, Jack.
- Ellenberg, Jack, assignor to E. Ellenberg, Brookline, Mass. Removable sectional coat lining. 2,415,996; Feb. 18.
- Ellenberger, Stanley D., Kenosha, Wis., assignor to Wolgen Company, Chicago, Ill. Capacitative feed-back device for electrical testing. 2,428,700; Oct. 7.
- Ellenberger, Stanley D., Kenosha, Wis., assignor to Wolgen Co., Chicago, Ill. Magnetic head. 2,428,701; Oct. 7.
- Ellenberger, Stanley D., Kenosha, Wis., assignor, by mesne assignments, to Chicago Coin Machine Co. Magnetic sound recording. 2,431,739; Dec. 2.
- Ellenberger, Stanley D., Kenosha, Wis., assignor, by mesne assignments, to Chicago Coin Machine Co. Rectilinear pole piece for magnetic sound heads. 2,433,207; Dec. 23.
- Ellerman, George E., Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Making a water dispersible coating vehicle. 2,423,230; July 1.
- Eimco Corporation, The, assignee: *See*—  
Finney, John H. V., Jr.
- Einbinder, Morris A., Denver, Colo. Garment pocket. 2,421,488; June 3.
- Einson-Freeman Co., Inc., assignee: *See*—  
Horr, John V.
- Eiriksson, Holger, Groton, Conn. Device for handling flanged objects. 2,420,658; May 20.
- Elsan, James R.: *See*—  
Walker, Charles M., and Elsan.
- Eisele & Co., assignee: *See*—  
Tanksley, Forrest E.
- Eisele, Logan, Nashville, Tenn. Clinical thermometer. 2,413,959; Jan. 7.
- Eisele, Otto J., New York, N. Y. Mechanical clutch. 2,418,292; Apr. 1.
- Eisenberg, George M., Philadelphia, and J. L. Metzendorf, Jenkintown, Pa., assignors to J. T. Baker Chemical Company, Phillipsburg, N. J. Producing penicillin by mold culture. 2,422,777; June 24.
- Eisler, Charles, South Orange, N. J. Machine for sealing glass bulbs. 2,413,960; Jan. 7.
- Eisler, Charles, South Orange, N. J. Machine for piercing glass bulbs. 2,414,587; Jan. 21.
- Eisler, Charles, South Orange, N. J. Machine for sealing and molding glass bulbs. 2,418,763; Apr. 8.
- Eisler, Charles, South Orange, N. J. Machine for sealing bulbs. 2,421,929; June 10.
- Eitel-McCullough, Inc., assignee: *See*—  
Becker, George A.  
Drieschman, Donald F., Shepherd, Rabinawitz, Newhall, and Sorg.  
Eitel, William W., and McCullough.  
Eitel, William W., McCullough, and Howes.  
McCullough, Jack A.  
Murdock, Clayton E., and Norton.  
Rayfield, George T.  
Wolfe, Martin E.
- Eitel, William W., Woodside, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Electrode. 2,417,458; Mar. 18.
- Eitel, William W., Woodside, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Electron tube and electrode for the same. 2,417,469; Mar. 18.
- Eitel, William W., Woodside, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Non-emissive electrode for electron tube and making same. 2,417,460; Mar. 18.
- Eitel, William W., and J. A. McCullough, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Thermionic tube. 2,422,828; June 24.
- Eitel, William W., Salt Lake City, Utah, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Method of making cathodes. 2,424,090; Aug. 5.
- Eitel, William W., Woodside, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Electron tube. 2,424,683; July 29.
- Eitel, William W., Woodside, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Multiunit electron tube. 2,424,684; July 29.
- Eitel, William W., Woodside, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Multiunit electron tube. 2,424,685; July 29.
- Eitel, William W., Woodside, and J. A. McCullough, Millbrae, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Electron tube with secondary emissive grid. 2,430,218; Nov. 4.
- Eitel, William W., Woodside, J. A. McCullough, Millbrae, and G. Howes, Belmont, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Electron tube having condenser member therein. 2,431,740; Dec. 2.
- Eitelman, Michael A., Hamburg, N. Y., assignor to Allied Chemical & Dye Corporation. Preparing purified mixtures of esters. 2,428,450; Oct. 7.
- Eitzen, Louis C., and W. C. Schwaderer, New York, N. Y.; said Schwaderer assignor to said Eitzen. Viscosimeter. 2,431,378; Nov. 25.
- Ekco Products Company, assignee: *See*—  
Eggleston, Allen J.  
Glass, Henry P.  
Hvale, James L.  
Zimmer, Myron J.
- Ekholm, Steven T., St. Paul, Minn. Corn picker. 2,414,512; Jan. 21.
- Ekins, William J., assignor to The Auto Arc-Weld Manufacturing Co., Cleveland, Ohio. Clothesline pulley assembly. 2,421,059; May 27.
- Ekleberry, James F., assignor of one-half to C. R. Miller, Miami, Fla. Diver's light. 2,420,362; May 13.
- Eklöv, David, assignor to Aktiebolaget Gylling & Co., Stockholm, Sweden. Vibratory unit for electrodynamic loud-speakers. 2,427,844; Sept. 23.
- Eksergian, Carolus L.: *See*—  
Farr, Warren H., and Eksergian.  
Horton, Reuben H., Eksergian, and Harwick.
- Eksergian, Carolus L., Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa. Inertia control device. 2,415,344; Feb. 4.
- Eksergian, Carolus L., Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa. Brake mechanism. 2,415,345; Feb. 4.
- Eksergian, Carolus L., Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa. Brake arrangement. 2,416,869; Mar. 4.
- Eksergian, Carolus L., Detroit, Mich., assignor, by mesne assignments, to United States of America. Casing and nozzle construction for rocket motors. 2,421,552; June 3.
- Eksergian, Carolus L., Detroit, Mich., assignor, by mesne assignments, to United States of America. Rocket projectile. 2,422,720; June 24.
- Eksergian, Carolus L., Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa. Brake control device. 2,426,575; Aug. 26.
- Eksergian, Carolus L., Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa. Brake disc. 2,431,741; Dec. 2.
- Eksergian, Carolus L., and P. W. Gaenssle, Detroit, Mich., assignors to The Budd Company, Philadelphia, Pa. Brake mechanism. 2,423,694; July 8.
- Eksergian, Rupen, Media, assignor to The Budd Company, Philadelphia, Pa. Compression testing apparatus. 2,431,296; Nov. 18.
- Eksergian, Rupen, Media, and A. O. Bergholm, Upper Darby, assignors to The Budd Company, Philadelphia, Pa. Load-testing apparatus and method. 2,431,295; Nov. 18.
- Elam, David L.: *See*—  
Crossley, Alfred, and Elam.
- Elastic Stop Nut Corporation of America, assignee: *See*—  
Hallock, Robert L.
- Elder, R. M., J. J. Domoj, and E. W. Wise, U. S. Navy, and J. J. Konikoff, U. S. Army, Philadelphia, Pa. Aircraft support for rocket projectiles. 2,422,660; June 24.
- Elderfield, Robert C., Hastings-on-Hudson, and J. D. Head, New York, N. Y., assignors to the United States of America as represented by the Director of the Office of Scientific Research and Development. 1-bromo-4-(n-alkylamino)-hexanes and making them. 2,422,957; June 24.
- Eldred, Donald: *See*—  
Moyer, Elmo E., and Eldred.
- Eldred, John W., Columbus, Ohio. Article handling apparatus. 2,415,997; Feb. 18.
- Eldredge, Jack, and J. F. Novak, Cleveland, Ohio. Vibratory massage device. 2,417,744; Mar. 18.
- Eldredge, Kenneth R., Berkeley, and E. E. Edwards, Walnut Creek, assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif. Detonation pickup device. 2,414,457; Jan. 21.
- Eldridge, James W., Pasadena, Calif. Culinary vessel and rack therefor. 2,420,940; May 20.
- Eldrup, Niels, Chicago, Ill. Work clamping unit. 2,428,111; Sept. 30.
- Electraulic Presses Limited, assignee: *See*—  
Towler, John M., and F. H.
- Electric Controller & Manufacturing Company, The, assignee: *See*—  
Rathbun, Harold J.
- Electric Household Utilities Corporation, assignee: *See*—  
Gerhardt, Andrew H.



- Electric Machinery Mfg. Company, assignee: *See—*  
Clauson, Gustav A., and Early.
- Electric Machinery Manufacturing Company, assignee: *See—*  
Carter, William R.
- Electric & Musical Industries Limited, assignee: *See—*  
Blumlein, Alan D.  
Browne, Cecil O., and Blumlein.  
Cork, Edward C., and Blumlein.  
Hill, Stanley.  
Mansford, Hugh L.  
Scantlebury, Gordon S. P.
- Electric Railway Equipment Company, The, assignee: *See—*  
Gallagher, Clyde O.
- Electric Service Manufacturing Company, assignee: *See—*  
Hallman, Eric B.
- Electric Steel Foundry, assignee: *See—*  
Baer, Josef.  
Haun, Joye C.  
Haun, Joye C., and R. E. and H. H. Richmond.
- Electric Storage Battery Company, The, assignee: *See—*  
Riggs, Harold C.  
Smith, William W.  
White, Curtice C.
- Electric Tachometer Corporation, The, assignee: *See—*  
Koff, Petrus van S.
- Electrical Engineering and Manufacturing Corporation, assignee: *See—*  
Hoover, Vaino A.
- Electrical Engineers Equipment Co., assignee: *See—*  
Hoye, Peder B.
- Electro Manganese Corporation, assignee: *See—*  
Forbes, Duncan D.
- Electro Metallurgical Company, assignee: *See—*  
Franks, Russell, and Binder.  
Kroll, William J., and Bacon.  
Seybolt, Alan U.
- Electro-Protective Corporation, assignee: *See—*  
Chapman, Arthur B., and Hutton.  
Laford, Herbert M.
- Electroloy Company, Incorporated, The, assignee: *See—*  
Kruitbosch, Harold R.
- Electrolux Corporation, assignee: *See—*  
Beebe, Arnold H.  
Lampe, Robert C.  
Lofgren, Gustaf E.
- Electronbeam Ltd., assignee: *See—*  
Ziebolz, Herbert.
- Electronic Laboratories, Inc., assignee: *See—*  
Garstang, William W.  
Hings, Donald L.
- Electronic Mechanics Inc., assignee: *See—*  
Goldsmith, Robert.
- Electronic Utilities Co., assignee: *See—*  
Colombo, Paul V.
- Electronics Research, Inc., assignee: *See—*  
Kees, Harvey, and Gehres.
- Electronized Chemicals Corporation, assignee: *See—*  
Brasch, Arno A.
- Elektriska Svetsningsaktiebolaget, assignee: *See—*  
Sjoman, Per Y.
- Elgin, Joseph C.: *See—*  
Sverdrup, Edward F., and Elgin.
- Elgin National Watch Company, assignee: *See—*  
Boswell, Thomas L.  
Ensign, George G., Lawson, Schaefer, and Wochos.  
Kohlhagen, Walter.
- Elion, Gertrude B.: *See—*  
Hitchings, George H., and Elion.
- Eljot, Samuel, Newton, Mass. Motor vehicle snow plow. 2,419,489; Apr. 22.
- Elizabeth Products Corporation, assignee: *See—*  
Engel, Frank A., and Manning.
- Elkin, Hugh W., Pasadena, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Cowling arrangement. 2,421,689; June 3.
- Elkin, Milton, Dorchester, Mass., and C. M. Meadows, Nauet, assignors to American Cyanamid Company, New York, N. Y. Production of i-Inositol. 2,414,365; Jan. 14.
- Elkington, Frank, Sheffield, and H. H. Chesny, Worksop, England. Production of concentrated slurries of magnesium hydroxide. 2,419,204; Apr. 22.
- Elkins, Agnes A., Elyria, Ohio. Garment. 2,419,827; Apr. 29.
- Elkins, Frank, Philadelphia, Pa. Display case humidifier. 2,432,736; Dec. 16.
- Elkins, Irving A., Brooklyn, N. Y. Toolholder and lock. 2,432,144; Dec. 9.
- Ellberg, Ernest, assignor to B. F. Mead, Warren, Pa. Trailer coupling. 2,425,521; Aug. 12.
- Ellefson, Bennett S., assignor to Sylvania Electric Products Inc., Emporium, Pa. Header for electron tubes and the like and manufacture. 2,426,990; Sept. 9.
- Ellender, Harold L., Baytown, Tex., assignor to Standard Oil Development Company. Recovery of sulfuric acid. 2,414,727; Jan. 21.
- Ellerbeck, Grant C., San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc. Motor control. 2,425,178; Aug. 5.
- Ellestad, Gerhard A., Rochester, N. Y. Baking utensil. 2,427,451; Sept. 16.
- Ellis, Albert B., assignor to James R. Kearney Corporation, St. Louis, Mo. Electrical protective device. 2,418,017; Mar. 25.
- Ellingboe, Ellsworth K., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of thiol esters. 2,423,641; July 8.
- Ellingham, Stanley R., Springfield, and A. L. Brownlee, assignors to Wico Electric Company, West Springfield, Mass. Magneto. 2,431,547; Nov. 25.
- Ellingson, Rudolph C., assignor to Mead Johnson & Company, Evansville, Ind. 2-sulfanilamidopyrazine. 2,420,703; May 20.
- Ellinwood, Herman R., Burbank, Calif., assignor to Adel Precision Products Corp. Snap clip. 2,427,770; Sept. 23.
- Ellinwood, Herman R., Van Nuys, Calif., assignor to Adel Precision Products Corp. Snap clamp. 2,431,379; Nov. 25.
- Elliott, William H., Shorewood, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electronic motor control. 2,428,702; Oct. 7.
- Elliott, Arthur G.: *See—*  
Elliott, Arthur J. and A. G.  
Elliott, Arthur J., Cleveland, and A. G. Elliott, Geneva, Ohio. Dirigible airship. 2,428,656; Oct. 7.
- Elliott Company, assignee: *See—*  
Hennig, Fritz O.  
Smith, Ronald B.  
Smith, Ronald B., and Hennig.  
Wilson, William A.
- Elliott, Daniel S., Middle River, assignor to The Glenn L. Martin Company, Baltimore, Md. Machine gun feed. 2,428,414; Oct. 7.
- Elliott, Francis P., Toronto, Ontario, Canada. Pattern sheet control switch. 2,431,380; Nov. 25.
- Elliott, Francis P., Toronto, Ontario, Canada. Control system. 2,431,381; Nov. 25.
- Elliott, H. W., assignee: *See—*  
Lorraine, David G.
- Elliott, Harmon P., Watertown, Mass. Stencil panel removing apparatus. 2,414,937; Jan. 28.
- Elliott, Harmon P., Watertown, Mass. Addressing machine and sheet feeding means therefor. 2,419,345; Apr. 22.
- Elliott, Harold F., Belmont, Mass. Radio control apparatus. 2,423,588; July 8.
- Elliott, Harry E., Los Angeles, Calif., assignor to Hughes Tool Company, Houston, Tex. Flexible chute. 2,419,315; Apr. 22.
- Elliott, Herschel A., assignor to Hercules Powder Company, Wilmington, Del. Lead resinate and producing. 2,425,926; Aug. 19.
- Elliott, John G., Detroit, Mich. Auxiliary refrigerator. 2,414,588; Jan. 21.
- Elliott, John S.: *See—*  
Evans, Elliott A., and Elliott.
- Elliott, Morris A., Baltimore, Md. Belt. 2,426,731; Sept. 2.
- Elliott, Morris A., Baltimore, Md. Venetian blind slat. 2,428,909; Oct. 14.
- Elliott, Peter M., assignor to Oil Distribution Appliances Limited, Toronto, Ontario, Canada. Crude oil separator. 2,421,375; June 3.
- Elliott, Richard M.: *See—*  
Bell, Charles C., and Elliott.
- Elliott, Stanley M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire. 2,430,560; Nov. 11.
- Elliott, William F., Merced, Calif. Processing figs. 2,421,489; June 3.
- Ellis, Charles A., assignor to American Optical Company, Southbridge, Mass. Trial frame. 2,420,032; May 6.
- Ellis, Charles A., assignor to American Optical Company, Southbridge, Mass. Binocular magnifying lens holder. 2,422,661; June 24.
- Ellis, Charles A., assignor to American Optical Company, Southbridge, Mass. Head-supported binocular magnifier. 2,425,522; Aug. 12.
- Ellis, Charles A., and L. A. Severy, assignors to American Optical Company, Southbridge, Mass. Abrading. 2,419,543; Apr. 29.
- Ellis, Clarence M., assignor of one-third to J. E. Devine and one-third to J. M. Prentice, Lodi, Calif. Load spacing assembly. 2,419,346; Apr. 22.
- Ellis, Delbert: *See—*  
Schaeichlin, Walter, and Ellis.
- Ellis, Delbert, and O. L. Taylor, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Overload relay. 2,414,513; Jan. 21.
- Ellis, Delbert, and O. L. Taylor, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Arc extinguishing structure. 2,416,164; Feb. 18.
- Ellis, Delbert, Forest Hills, and J. H. Alspach, Swissvale, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Contactor. 2,424,308; July 22.
- Ellis, Delbert, and O. L. Taylor, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Latch for contactors. 2,426,301; Aug. 26.
- Ellis-Foster Company, assignee: *See—*  
Wells, Franklin B.



- Ellis, Frampton E., Jr., U. S. Navy. Turbo planetary transmission. 2,431,318; Nov. 25.
- Ellis, Fred, New York, N. Y. Lettering and designing device. 2,432,300; Dec. 9.
- Ellis, Greer, assignor to Magnaflex Corporation, Chicago, Ill. Resinous composition for determining the strain concentration in rigid articles. 2,428,559; Oct. 7.
- Ellis, Herbert, Shanghai, China. Star wheel for matrix composing machines. 2,431,031; Nov. 18.
- Ellis, Herbert B., West Los Angeles, assignor to The Garrett Corporation, Aircor Research Manufacturing Company division, Inglewood, Calif. Exhaust heat exchanger. 2,428,066; Sept. 30.
- Ellis, Norman S., Hamilton, Ontario, Canada, assignor to Metal Textile Corporation, West Orange, N. J. Scouring device. 2,424,747; July 29.
- Ellis, Robert, York, Pa. Flag. 2,427,047; Sept. 9.
- Ellis, Rollo G., Royal Oak, assignor to Micromatic Hone Corporation, Detroit, Mich. Ball honing device. 2,426,925; Sept. 2.
- Ellis, William C., Maplewood, and A. G. Souden, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Treatment of finely divided magnetic material. 2,418,467; Apr. 8.
- Ellison, Leslie J.: *See*—
- Richards, Edward A., Ellison, and Gray.
- Ellner, George G., Long Island, N. Y. Ray-emission means. 2,425,672; Aug. 12.
- Ellwell-Parker Electric Company, The, assignee: *See*—
- Abbe, Edward J.
- Ellwood, Walter B., New York, N. Y. Magnetic firing device. 2,431,319; Nov. 25.
- Ellwood, Walter B., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Spot-welding machine. 2,421,021; May 27.
- Elmendorf, Charles H., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Negative feedback amplifier. 2,428,363; Oct. 7.
- Elmer, William B., Lakewood, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Steering control solenoid structure. 2,432,869; Dec. 16.
- Elmes, John A., Beaver Falls, assignor to W. L. Ryan, Pittsburgh, Pa. Grinding apparatus. 2,431,795; Dec. 2.
- Elmore, Elbert E., and R. F. Leger, Chicago, Ill. Forced draft hot-air heater. 2,430,393; Nov. 4.
- Elmore, Norman M., Elizabeth, N. J., assignor to Standard Oil Development Company. Polymerizing isobutylene. 2,423,760; July 8.
- Elphee, Leon E., Newark, assignor to Design Service, Inc., Jersey City, N. J. Device for sharpening knives or the like. 2,432,231; Dec. 9.
- Elrad, William R., University Heights, Ohio. Bedpost rail socket. 2,425,927; Aug. 19.
- Elser, William, Toledo, Ohio, assignor, by mesne assignments, to Continental Can Company, Inc., New York, N. Y. Apparatus for making can body seams. 2,430,219; Nov. 4.
- Else, Howard M., Oakmont, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Dynamo-electric apparatus brush. 2,414,514; Jan. 21.
- Elsman, James L., assignor to Kalamazoo Vegetable Parchment Company, Parchment, Mich. Roll paper dispensing container. 2,433,445; Dec. 30.
- Elsner, Edwin C., Burbank, assignor of one-half to J. W. Schulze, North Hollywood, Calif. Handcart for molded blocks. 2,424,442; July 22.
- Elsworth, John V. V., Watertown, N. Y., assignor to The New York Air Brake Company. Rail sander sand trap. 2,431,382; Nov. 25.
- Eltgroth, George V., Towson, Md., assignor to Bendix Aviation Corporation, South Bend, Ind. Radio distance measuring apparatus. 2,416,741; Mar. 4.
- Elvin, William J., Frostburg, Md., and E. R. Stahl, Meyersdale, Pa., assignors to Celanese Corporation of America. Twisting and winding apparatus for transfer tail. 2,432,564; Dec. 16.
- Elvy, Charles, Rainham, Gillingham, England. Temporary holding pin. 2,424,309; July 22.
- Ellwell-Parker Electric Company, The, assignee: *See*—
- Abbe, Edward J.
- Burgy, Charles J.
- Elwell, William E., Berkeley, and N. W. Furby, El Cerrito, assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif. Neutral, highly unsaturated polymeric composition and producing same. 2,422,002; June 10.
- Ely, Robert S., assignor to Safeway Heat Elements, Inc., New York, N. Y. Heating utensil. 2,431,998; Dec. 2.
- Elze, Walter C., Forest Hills Gardens, and A. J. Turpin, Stewart Manor, assignors to Hauck Manufacturing Company, Brooklyn, N. Y. Turboblower. 2,414,366; Jan. 14.
- Elzi, Frank A., Pueblo, assignor to The Colorado Fuel and Iron Corporation, Denver, Colo. Treating ferrous sulphate solutions. 2,427,555; Sept. 16.
- Emard, Leo E., Long Beach, Calif. Hair clipper. 2,429,750; Oct. 28.
- Embosograf Corporation of America, assignee: *See*—
- Wernig, Charles P.
- Embree, Norris D., and E. M. Shantz, Rochester, N. Y. Vitaminic products and processes. 2,414,458; Jan. 21.
- Embry, Alvin L., Revere, Mass., assignor to General Electric Company. Saturable reactor system. 2,422,958; June 24.
- Embschhoff, George F., Cincinnati, Ohio. Carburetor. 2,419,679; Apr. 29.
- Emerick, Willard E., Canton, Ill., assignor to International Harvester Company. Plow. 2,424,155; July 15.
- Emerson, John H., Cambridge, Mass. Apparatus for preparing compresses. 2,415,238; Feb. 4.
- Emerson, John H., Cambridge, Mass. Artificial respirator with an auxiliary unit for temporary use. 2,427,665; Sept. 23.
- Emerson, John H., Cambridge, Mass. Pressure resuscitator. 2,428,451; Oct. 7.
- Emerson Radio and Phonograph Corporation, assignee: *See*—
- Easton, Allan.
- Emerson, Walter H., East Liverpool, Ohio, assignor to The Homer Laughlin China Company, Newell, W. Va. Cup decorating machine. 2,425,928; Aug. 19.
- Emerson, Walter H., East Liverpool, Ohio, assignor to The Homer Laughlin China Company, Newell, W. Va. Dinnerware decorating apparatus. 2,426,391; Aug. 26.
- Emerson, William S., Dayton, Ohio. Production of secondary amines from nitrogen compounds. 2,414,031; Jan. 7.
- Emery, Albert H., Stamford, Conn., assignor to The Baldwin Locomotive Works. Pressure operated electric strain gage. 2,419,061; Apr. 15.
- Emery, Alfred H., Wappingers Falls, assignor to Standard Gage Company, Inc., Poughkeepsie, N. Y. Dial bore gage. 2,429,511; Oct. 21.
- Emery Industries, Inc., assignee: *See*—
- Myers, Latimer D.
- Myers, Latimer D., and Muckerheide.
- Emery, Melvin R., Kansas City, Kans., assignor to Phillips Petroleum Company. Gas engine safety cap. 2,423,181; July 1.
- Emico Corporation, The, assignee: *See*—
- Royle, Edwin B.
- Emmott, Herbert E., Manville, Alberta, Canada. Concave clutch. 2,419,712; Apr. 29.
- Empire Box Corporation, assignee: *See*—
- Allen, William H.
- Hall, Maynard G.
- Lyons, Joseph L., Jr.
- Empire Electric Brake Company, assignee: *See*—
- Penrose, William F.
- Emrich, Albert F., Valley Stream, N. Y. Drafting-machine aligning tool. 2,426,991; Sept. 9.
- Emsco Derrick & Equipment Company, assignee: *See*—
- Renouf, Ralph R., and Mason.
- Tremolada, Guglielmo R.
- Endebak, Peter, assignor to Tuthill Pump Company, Chicago, Ill. Diaphragm shaft seal. 2,423,642; July 8.
- Endecott, Evelyn P., Kansas City, Mo. Shoulder pad and making same. 2,425,233; Aug. 5.
- Ender, Clarence D., assignor to Hercules Powder Company, Wilmington, Del. Coated paper product. 2,423,555; July 8.
- Ender, Willibald: *See*—
- Amende, Joachim, and Ender.
- Endicott Johnson Corporation, assignee: *See*—
- Rosenzweig, Henry G.
- Engberg, Frederick W., Cedar Rapids, Iowa. Pipe cleaner. 2,433,105; Dec. 23.
- Engberg, Ralph E.: *See*—
- Miller, Edward G., and Engberg.
- Engberg, Ralph E., Clayton, Mo., assignor to Better Packages, Inc., Shelton, Conn. Apparatus for dispensing gummed tape. Re. 22,945; Dec. 2.
- Engel, David, Bloomfield, N. J., assignor of one-fourth to D. Caimi and one-fourth to A. Caimi, Philadelphia, Pa. Swivel harp for lamp shades. 2,420,471; May 13.
- Engel, Frank A., Roselle, and D. J. Manning, Mountaineers, assignors to Elizabeth Products Corporation, Elizabeth, N. J. Mechanism for digging trenches. 2,430,048; Nov. 4.
- Engel, Karl H., Teaneck, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Preparing dioxanes. 2,417,548; Mar. 18.
- Engel, Karl H., Teaneck, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Resolution of mixtures of heterocyclic nitrogen compounds. 2,421,413; June 3.
- Engel, Karl H., Teaneck, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Separation of 2,4,6-collidine from nitrogen base mixtures. 2,426,442; Aug. 26.
- Engel, Karl H., West Englewood, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Resolution of heterocyclic nitrogen base mixtures. 2,420,529; May 13.
- Engelhardt, George B., Hartsdale, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Object locating system. 2,421,747; June 10.
- Engelhardt, Hugo, assignee, et al.: *See*—
- Schwartz, John L.
- Engelhardt, Richard A., Parkville, assignor to The Glenn L. Martin Company, Middle River, Md. Electrical connector block. 2,431,999; Dec. 2.
- Engemann, Herbert H.: *See*—
- Colwell, Archie T., and Engemann.
- Engemann, Herbert H., Cleveland Heights, Ohio. Anti-crashing device for automatic push rods. 2,419,316; Apr. 22.



- Engemann, Herbert H., Cleveland Heights, Ohio. Torsion spring assembly for automatic push rods. 2,424,389; July 22.
- Engineering Laboratories, Inc., assignee: *See*—  
Green, William G., and Callahan.
- Engineering and Research Corporation, assignee: *See*—  
Barish, Thomas.  
Barret, William M.  
Berliner, Henry A.  
Boyd, Chester M.  
Deady, Emmett F.  
Gurvitch, Joseph E.  
Moore, Andrew J.
- England, August J., assignor to C. J. Schriever, Providence, R. I. Manufacture of ornamental chains. Re. 22,901; July 22.
- Engle, Ralph L., Oden, Mich. Automatic boat bailer. 2,418,252; Apr. 1.
- Engler, Max, assignor to The General Tire & Rubber Company, Akron, Ohio. Printing device. 2,424,606; July 29.
- English Electric Company Limited, The, assignee: *See*—  
Ball, Reginald D.  
Carnegie, Herbert S., Welsh, and Wood.  
Seewer, Paul W.  
Welsh, Robert J.
- English, Jackson P., and J. W. Clapp, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparation of 2,4-diaminopyrimidines. 2,416,617; Feb. 25.
- English, Joseph B., Atlanta, Ga. Picture frame. 2,424,686; July 29.
- Englund, Leonard H., assignor to James H. Rhodes & Company, Chicago, Ill. Making cleansing pads. 2,432,091; Dec. 9.
- Engs, William, Piedmont, and S. N. Wik and R. M. Roberts, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Concentrating diolefins utilizing methyl amines as azeotrope formers. 2,414,639; Jan. 21.
- Engstrom, Ernst F., Chicago, Ill. Structural unit and cellular construction made therewith. 2,424,080; July 15.
- Engstrom, Olle D., East Williston, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relaxation oscillator. 2,418,825; Apr. 15.
- Engstrom, Olle D., East Williston, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Multivibrator circuit. 2,418,826; Apr. 15.
- Engstrom, Ralph W., Lancaster, Pa., assignor to Radio Corporation of America. Multicathode phototube. 2,421,192; May 27.
- Engvall, Elmer O.: *See*—  
Pool, Stuart D., and Engvall.
- Eniti, Ernest B., and L. A. Nichols, Plainfield, Vt. Attachment for tire chains. 2,432,232; Dec. 9.
- Enkur, Edward M., L. F. Pahl, and L. L. Lauve, assignors to Crown Cork & Seal Company, Inc., Baltimore, Md. Container sealing apparatus. 2,433,549; Dec. 30.
- Ennis, Clyde E., Danville, Va. Releasable glider tow cable coupling lock. 2,425,309; Aug. 12.
- Ennis, George H., assignor of one-half to R. V. Funk, Long Beach, Calif. Method of and apparatus for locating formations in cased wells. 2,414,194; Jan. 14.
- Enoz Chemical Company, assignee: *See*—  
Rich, Hyman R.
- Enquist, Carl A.: *See*—  
Schaefer, George, and Enquist.
- Enright, Camillus C., Trenton, N. J. Rope sole for footwear. 2,430,497; Nov. 11.
- Ensign-Bickford Company, The, assignee: *See*—  
Pearsall, David E.
- Ensign, George G., R. R. Lawson, E. H. Schaefer, and W. M. Wochos, Jr., assignors to Elgin National Watch Company, Elgin, Ill. Gimbale locking mechanism. 2,419,768; Apr. 29.
- Ensign Ribbon Burners, Inc., assignee: *See*—  
Ensign, William B., and Flynn.  
Flynn, John H., and Ensign.
- Ensign, William B., and J. H. Flynn, New Rochelle, assignors to Ensign Ribbon Burners, Inc., Mount Vernon, N. Y. Ribbon burner. 2,428,271; Sept. 30.
- Ensinger, Earl H., Cleveland, Ohio. Portable conveyor. 2,430,282; Nov. 4.
- Ensor, Vernon C., Woodlawn, and F. D. Johnston, Towson, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Reciprocable means for automatically moving a series of articles in tandem through a drying chamber. 2,421,690; June 3.
- Enzymic Malt Company Limited, The, assignee: *See*—  
Dixon, Thomas R.
- Eppenbach, Edwin G., Manhasset, and H. Imshaug, Flushing, N. Y.; said Imshaug assignor to said Eppenbach. Adjustable colloid mill. 2,428,415; Oct. 7.
- Epstein, Albert A., Carmel, N. Y. Gelatin preparation. 2,413,815; Jan. 7.
- Epstein, David W., Princeton, N. J., assignor to Radio Corporation of America. Radio distance and direction recorder. 2,430,283; Nov. 4.
- Epstein, Harry T., Brookline, Mass. Method of and apparatus for making tubes of paper and the like. 2,422,188; June 17.
- Erb, Edward R., Jr.: *See*—  
Kemmler, James W., and Erb.
- Erb, George H., South Orange, assignor to Federal Telephone and Radio Corporation, Newark, N. J. 2,424,974; Aug. 5.
- Erbe, John R., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control of electrolytic processes. 2,427,771; Sept. 23.
- Erck, Louis J., Cooley, Minn., assignor to Minerals Beneficiation, Incorporated, Joplin, Mo. Ferrosilicon-magnetite as heavy media in separation of ores. 2,430,762; Nov. 11.
- Ercolani, John, New Haven, Conn. Toy. 2,426,675; Sept. 2.
- Erhard, Fred A., El Paso, Tex. Theater program schedule indicator. 2,419,394; Apr. 22.
- Erhardt, Richard, Chicago, Ill. Metal spraying method. 2,423,490; July 8.
- Ericks, Walter P., Buffalo, assignor to American Cyanamid Company, New York, N. Y. Condensation product of ammelines with alkylene oxides. 2,413,755; Jan. 7.
- Ericks, Walter P., Buffalo, assignor to American Cyanamid Company, New York, N. Y. Condensation products of melamines and substituted melamines with alkylene oxides. 2,414,289; Jan. 14.
- Ericks, Walter P., Buffalo, assignor to American Cyanamid Company, New York, N. Y. Condensation products of guanlyurea with alkylene oxides. 2,423,643; July 8.
- Erickson, Arthur E.: *See*—  
Weijlard, John, Tishler, and Erickson.
- Erickson, Arvid M.: *See*—  
Gray, Herbert E., and Erickson.
- Erickson, Arvid M., San Jose, and J. D. Ryan, Campbell, assignors to Barron-Gray Packing Company, San Jose, Calif. Honey treatment. 2,414,290; Jan. 14.
- Erickson, Arvid M., San Jose, and J. D. Ryan, Campbell, assignors to Barron-Gray Packing Company, San Jose, Calif. Sugar recovery process. 2,416,682; Mar. 4.
- Erickson, Arvid M., San Jose, and J. D. Ryan, Campbell, assignors to Barron-Gray Packing Company, San Jose, Calif. Preparation of sweetening medium from fruit. 2,421,376; June 3.
- Erickson, Edwin R., and J. C. Michalek, Niagara Falls, assignors to The Mathieson Alkali Works, Inc., New York, N. Y. Production of dichlorostyrenes. 2,432,737; Dec. 16.
- Erickson, John A., Jackson, Mich. Corn shelling and shredding, and separator machine. 2,422,899; June 17.
- Erickson, John G.: *See*—  
Davis, Harold S., Lichtenwalter, and Erickson.
- Ericson, Eric A., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Switch actuating mechanism. 2,425,278; Aug. 5.
- Ericson, George R., Kirkwood, Mo. Combustion chamber for Diesel engines. 2,414,225; Jan. 14.
- Ericson, George R., Kirkwood, Mo. Engine control device. 2,423,589; July 8.
- Ericsson, Arvid I.: *See*—  
Crosby, George A., and Ericsson.
- Ericsson, Arvid I., assignor to Signode Steel Strapping Company, Chicago, Ill. Staple supporter for stapling machines. 2,431,548; Nov. 25.
- Erie Resistor Corp., assignee: *See*—  
Minnium, Byron B.
- Erikson, Gustaf, Benton Harbor, and E. C. Filstrup, St. Joseph, assignors to Covell Mfg. Co., Benton Harbor, Mich. Grinding machine tool carriage control. 2,420,170; May 6.
- Eriksson, Erik E., Detroit, Mich. Nut driver. 2,420,741; May 20.
- Eriksson, John A., and F. V. Jensen, assignors to Jensen Specialties, Inc., Detroit, Mich. Apparatus for processing rope. 2,426,493; Aug. 26.
- Erismann, John L., Oak Park, Ill., assignor to Link-Belt Company. Apparatus for drying, heating, and/or cooling flowable solids. 2,424,228; July 22.
- Erismann, John L., Oak Park, Ill., assignor to Link-Belt Company. Drying, heating, and/or cooling flowable solids. 2,424,229; July 22.
- Erland af Kleen, Nils, Stockholm, Sweden, assignor to Kleen Refrigerator, Inc., Hoboken, N. J. Temperature controlling system. 2,417,761; Mar. 18.
- Ernest, Joseph C., assignor to Mid-West Refineries, Inc., Grand Rapids, Mich. Desulphurizing hydrocarbon oils. 2,421,320; May 27.
- Ernsberger, Maurice L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Sulfur-modified unsaturated cellulose ether and producing the same. 2,414,144; Jan. 14.
- Ernsberger, Maurice L., and P. S. Pinkney, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Methyl methacrylate polymer laminated to a polyvinyl butyral by means of silicic adhesive. 2,418,018; Mar. 25.
- Ernsberger, Maurice L., and P. S. Pinkney, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyhydric alcohol esters of phenoxyacetoxyacetic acid. 2,424,652; July 29.
- Ernst, George M., near Denver, Colo. Vise shears. 2,421,414; June 3.
- Ernst, Hans: *See*—  
Kronenberg, Max, and Ernst.



- Ernst, Victor C., Independence, Ohio. Gelatin printing plate process. 2,430,498; Nov. 11.
- Ernst, Victor C., Independence, assignor to The Fulton Tone Process Company, Cleveland, Ohio. Photographic reproduction process and apparatus. 2,414,938; Jan. 28.
- Ernst, Walter: *See*—  
Tucker, Warren R., and Ernst.
- Ernst, Walter, Mount Gilead, Ohio, assignor to H-P-M Development Corporation. Flow controlling valve means for hydraulic motors. 2,431,032; Nov. 18.
- Ernst, Walter, and R. M. Norman, Mount Gilead, Ohio, assignors to H-P-M Development Corporation. Press structure. 2,428,620; Oct. 7.
- Ero Manufacturing Company, assignee: *See*—  
Overbey, Floyd M.
- Erran, Heinz, Mount Vernon, N. Y. Combination garment hanger. 2,420,742; May 20.
- Errath, Edward O.: *See*—  
Frentzel, Herman C., Jr., and Errath.
- Ersted, Alfred J., Atherton, Calif. Bag delivery mechanism. 2,433,035; Dec. 23.
- Ervin, Guy, Jr., College Park, Md., assignor to Government of the United States, as represented by the Secretary of the Interior. Process for separating potassium sulfate from alkali carbonates. 2,424,975; Aug. 5.
- Erwin, Roy, University Heights, E. Troutman, Bedford, and L. W. Lindquist, Lyndhurst, assignors to National Malleable and Steel Castings Company, Cleveland, Ohio. Automatic grinding machine. 2,425,234; Aug. 5.
- Erwin, Wesley S.: *See*—  
Rassweiler, Gerald M., and Erwin.
- Erwin, Wesley S., assignor to General Motors Corporation, Detroit, Mich. Supersonic measuring means. 2,431,233; Nov. 18.
- Escande, Jean R. A., Lyon, France, assignor to International Standard Electric Corporation, New York, N. Y. Automatic telecommunication system. 2,426,188; Aug. 26.
- Escher, Edward P., Chicago, Ill., assignor to Screw Conveyor Corporation, Hammond, Ind. Housing and conveyor connections for screw conveyors. 2,424,810; July 29.
- Escher (Wyss) Maschinenfabriken Aktiengesellschaft, assignee: *See*—  
Heer, Walter.
- Escoffery, Charles A., East Orange, and B. Werbel, Newark, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y. Roughening the surface of ferrous elements. 2,433,353; Dec. 30.
- Eserkahn, Theodore F.: *See*—  
Armitage, Joseph B., and Eserkahn.
- Eshbaugh, Jesse E., Flint, assignor to General Motors Corporation, Detroit, Mich. Radiator sealing valve. 2,415,475; Feb. 11.
- Eshleman, Richard F.: *See*—  
Kellogg, William D., and Eshleman.
- Eshleman, Richard F., West Chester, Pa., assignor to American Viscose Corporation, Wilmington, Del. Warp knitting machine. 2,427,394; Sept. 16.
- Eshleman, Richard F., West Chester, Pa., assignor to American Viscose Corporation, Wilmington, Del. Speed indicator for warp knitting machines. 2,432,518; Dec. 16.
- Eskenazi, Alfred: *See*—  
Bergier, Jacques, Eskenazi, and Helbronner.
- Eskin, Samuel G., Los Angeles, Calif., and C. K. Strobel, Pittsburgh, assignors to Robertshaw Thermostat Company, Youngwood, Pa. Automatic temperature regulating apparatus. 2,418,840; Apr. 1.
- Eskra, George N., assignor to Pacific Metals Company, Ltd., San Francisco, Calif. Heat transfer fin. 2,430,631; Nov. 11.
- Esler, Phyllis L., Detroit, Mich. Electrically heated soldering iron. 2,415,476; Feb. 11.
- Esmay, Paul O.: *See*—  
Gifford, James T., and Esmay.
- Esnault-Pelterie, Robert, Geneva, Switzerland, assignor to A G E V Aktiengesellschaft für Erfindungsverwertung, of Vaduz, Liechtenstein (Princedom of Liechtenstein). Refractory cements and their preparation. 2,423,231; July 1.
- Espenas, Arthur K., Denton, Tex. Keyed turnbuckle device. 2,420,363; May 13.
- Espenas, Arthur K., Denton, Tex. Telescoping turnbuckle. 2,420,364; May 13.
- Espenschied, Lloyd, Kew Gardens, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Object locating system. 2,426,189; Aug. 26.
- Espenschied, Virgil F., assignor to The F. E. Schumacher Company, Hartville, Ohio. Storm window. 2,432,000; Dec. 2.
- Espley, Dennis C., North Wembley, assignor to The General Electric Company Limited, London, England. Apparatus for transmitting and receiving radio signals. 2,424,156; July 15.
- Essdee Patents, Inc., assignee: *See*—  
Barr, Courtland H.
- Esselen, Gustavus J., Swampscott, and M. H. Gurley, Jr., Newton Centre, assignors, by mesne assignments, to Pro-phy-lac-tic Brush Company, Northampton, Mass. Composition containing polyvinyl alcohol and lauryl pyridinium chloride 2,430,499; Nov. 11.
- Essex, Alois, Glendale, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Computing gun sight. 2,428,870; Oct. 14.
- Essex Wire Corporation, assignee: *See*—  
Iker, Elmer C., and Schwennesen.
- Schwennesen, Donald.
- Essig, Sanford F., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Forming glass film on metal. 2,424,353; July 22.
- Essig, Sanford F., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Bearing for vacuum tube work. 2,427,203; Sept. 9.
- Essig, Sanford F., Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Moisture indicator. 2,431,742; Dec. 2.
- Essl, Max, Swarthmore, Pa., assignor to The Baldwin Locomotive Works. Connecting rod. 2,429,410; Oct. 21.
- Esterbrook Pen Company, The, assignee: *See*—  
Cook, Walter V.
- Longmaid, Sydney E.
- Esterly, Amos R.: *See*—  
Magrane, John D., Esterly, and Davies.
- Estes, George R., Drexel Hill, Pa., and R. Grohskopf, Brooklyn, N. Y. Swinging machine. 2,428,840; Oct. 14.
- Estill, Edwin V., and W. L. Earle, assignors to B-R Engineering Company, Baltimore, Md. Fluid coupling. 2,429,202; Oct. 21.
- Esval, Orland E.: *See*—  
Braddon, Frederick D., De Lanty, and Esval.
- Curry, Robert S., Jr., and Esval.
- Halpert, Percy, Frische, Bird, and Esval.
- Etablissements Robbe Freres, assignee: *See*—  
Dussollier, Maurice.
- Etchler, Robert B., Gastonia, assignor of one-tenth to J. C. Johnson, Mooresville, N. C. Check strap for picker sticks. 2,429,348; Oct. 21.
- Etem, Theodore G., Hickman Mills, Mo., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Fluid applicator. 2,432,401; Dec. 9.
- Eterpen S. A., assignee: *See*—  
Biro, Laszlo J.
- Eterpen, S. A., assignee: *See*—  
Biro, Laszlo J.
- "Eterpen" Sociedad Anonima Financiera, assignee: *See*—  
Biro, Laszlo J.
- "Eterpen" Sociedad Anonima Financiera, assignee: *See*—  
Biro, Laszlo J.
- Etherington, Harold, Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Calculator. 2,418,803; Apr. 8.
- Ethyl Corporation, assignee: *See*—  
Austin, Chester R., and Rogers.
- Holmes, Frank C.
- Pearsall, Howard W.
- Etling, Harold A., Marshallville, assignor to Weather Seal, Inc., Barberton, Ohio. Window ventilator. 2,422,085; June 10.
- Etron Industries, Inc., assignee: *See*—  
Segal, Jacob H.
- Etter, Howard E., Salem, Mass., assignor to Radio Corporation of America. Apparatus for generating sweep voltages. 2,423,931; July 15.
- Ettinger, Joe J., assignor to Zimmer Manufacturing Company, Warsaw, Ind. Surgical bone clamp. 2,427,128; Sept. 9.
- Ettinger, Joe J., assignor to Zimmer Manufacturing Company, Warsaw, Ind. Walking heel. 2,427,951; Sept. 23.
- Etsel, Francis E., Jr., and F. E., Oradell, N. J. Camera support. 2,427,593; Sept. 16.
- Etsel, Frank E.: *See*—  
Etsel, Francis E., Jr., and F. E.
- Etsel, Gastao: *See*—  
Vincent, John R., and Etsel.
- Euclid Electric & Mfg. Co., The, assignee: *See*—  
Spaller, Elmer T.
- Euclid Road Machinery Co., The, assignee: *See*—  
Armington, Raymond Q.
- Euler, Alfred R., New York, N. Y. Bell. 2,417,297; Mar. 11.
- Eunson, William H.: *See*—  
Newhouse, Simeon E., and Eunson.
- Eureka Williams Corporation, assignee: *See*—  
Balluff, Edwin J.
- Comiskey, Frederick K.
- Coss, George R.
- Coss, George R., and Hammell.
- Gibson, Herschel V., and Casey.
- Hollister, Donald C.
- Jones, Hiltan E.
- Pierce, Frank L.
- Rasmussen, Harvey W.
- Eustis, Warner, Newton, Mass., and G. R. Orrill, Western Springs, Ill., assignors to The Kendall Company, Boston, Mass. Pressure sensitive adhesive tape. 2,429,223; Oct. 21.
- Evatt, George J., Philadelphia, Pa. Plastic ring and making the same. 2,432,870; Dec. 16.
- Evans, Albert M., Lynwood, C. W. Johnson and O. H. Molle, Los Angeles, Calif. Drum and barrel truck. 2,430,712; Nov. 11.



- Evans, Arthur G., assignee: *See*—Orellind, John R., and Evans. Whitmer, Arnold.
- Evans, Arthur G., Canton, Ill., assignor to International Harvester Company. Combined implement stabilizing and lifting structure. 2,420,530; May 13.
- Evans, Bernard C., Fort Wayne, Ind., assignor to General Electric Company. Dynamoelectric machine. 2,424,443; July 22.
- Evans, Charles E., Aurora, Ill. Navigation and aeronautical instrument. 2,414,291; Jan. 14.
- Evans, Charles N., Jr., Haxtun, Colo. Loading bin attachment for corn pickers. 2,430,007; Nov. 4.
- Evans, Charles S., Atherton, assignor to T. Nelson, San Leandro, Calif. Single leg support for welding guns. 2,416,915; Mar. 4.
- Evans, Charles T. Jr., Titusville, assignor to Universal-Cyclops Steel Corporation, Bridgeville, Pa. High temperature alloy steel and articles made therefrom. 2,416,515; Feb. 25.
- Evans, Cyril D., and C. W. Ofelt, Peoria, Ill., assignors to United States of America, as represented by the Secretary of Agriculture. Obtaining increased yields in the extraction of corn proteins. 2,414,195; Jan. 14.
- Evans, David, & Company Limited, assignee: *See*—Wykes, Bernard.
- Evans, David W. T., Sutton Coldfield, assignor to T. I. (Group Services) Limited, Birmingham, England. Shiftable work support for machines which straighten tubes or bars. 2,416,048; Feb. 18.
- Evans, Edmond W., Bartlesville, Okla., assignor to Phillips Petroleum Company. Slip gage. 2,419,257; Aug. 22.
- Evans, Elliott A., and J. S. Elliott, assignors to C. C. Wakefield & Company Limited, Beaconsfield, England. Lubricating oil. 2,414,257; Jan. 14.
- Evans, Elmer B., Los Angeles, Calif. Safety window lock. 2,429,873; Oct. 28.
- Evans, Francis C., Dongan Hills, N. Y., assignor to American District Telegraph Company, Jersey City, N. J. Fire detector of the thermocouple type. 2,432,145; Dec. 9.
- Evans, George H., Washington, D. C. Illumination system. 2,428,792; Oct. 14.
- Evans, George H., Drexel Hill, F. T. Klopsch, Havertown, and D. M. McCormick, Springfield, assignors to The Atlantic Refining Company, Philadelphia, Pa. Treatment of hydrocarbon oil. 2,428,067; Sept. 30.
- Evans, George S., East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Mercury vapor tube. 2,419,128; Apr. 15.
- Evans, Gerald B.: *See*—Latham, John W., Jr., Pickett, and Evans.
- Evans, Hector C., Cranford, and D. W. Young, Roselle, N. J., assignors to Standard Oil Development Company. Coating composition comprising polybutene, an organic solvent and an amine acetate wetting agent. 2,423,761; July 8.
- Evans, Hector C., Cranford, and D. W. Young, Roselle, N. J., assignors, by mesne assignments, to Jasco, Incorporated. Laminated structures and preparing them. 2,426,820; Sept. 2.
- Evans, Homer E., assignor of one-fourth to E. S. Veall and one-half to H. C. Holman, Wellington, Kans. Model airplane fan device. 2,427,952; Sept. 23.
- Evans, Jeremiah C., Detroit, Mich. Distributor valve. 2,433,208; Dec. 23.
- Evans, John, Kingston, N. J., assignor to Radio Corporation of America. Pulse producing apparatus. 2,422,086; June 10.
- Evans, John, Kingston, N. J., assignor to Radio Corporation of America. Heat detection device. 2,426,494; Aug. 26.
- Evans, John, Kingston, N. J., assignor to Radio Corporation of America. Super-high-frequency wattmeter. 2,427,094; Sept. 9.
- Evans, John, Kingston, N. J., assignor to Radio Corporation of America. Transmission line transducer. 2,428,272; Sept. 30.
- Evans, John, Palmyra, N. J., assignor to Radio Corporation of America. Range finder. 2,423,644; July 8.
- Evans, John R., Windsor, Ontario, Canada. Steam boiler furnace. 2,426,004; Aug. 19.
- Evans, Leigh R., assignor to Hardinge Brothers, Inc., Elmira, N. Y. Adjusting the tail centers of lathes. 2,414,861; Jan. 28.
- Evans, Louis P.: *See*—Eastwood, Sylvander C., and Evans. Simpson, Thomas P., Payne, and Evans.
- Evans, Louis P., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Apparatus for contacting fluids and solids. 2,416,165; Feb. 18.
- Evans, Louis P., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Apparatus for hydrocarbon reaction. 2,417,393; Mar. 11.
- Evans, Louis P., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Conversion of hydrocarbons. 2,419,519; Apr. 22.
- Evans, Louis P., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Method and apparatus for contacting gases with particle form solid materials. 2,428,018; June 24.
- Evans, Louis P., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Apparatus for contacting gases with moving particle form solid material. 2,430,420; Nov. 4.
- Evans, Luther W., assignor to Evans Specialty Company, Inc., Richmond, Va. Paper sorter. 2,429,349; Oct. 21.
- Evans, Percy N., assignor to A. C. E. Machinery Limited, Brentford, England. Friction braking device for hoisting apparatus. 2,426,967; Sept. 2.
- Evans Products Company, assignee: *See*—Earley, Samuel C. and N. B., Sanders, Skarsen, Davies, and Hughes. Farber, Eduard.
- Evans, Ralph L., New York, and E. G. McDonough, Yonkers, N. Y. Exothermic heating system for hair waving. 2,431,220; Nov. 18.
- Evans, S. W., & Son, assignee: *See*—Evans, Wayne S.
- Evans Specialty Company, Inc., assignee: *See*—Evans, Luther W.
- Evans, Theodore W.: *See*—Marple, Kenneth E., Shokal, and Evans. Shokal, Edward C., and Evans.
- Evans, Theodore W., Oakland, R. C. Morris, Berkeley, and E. C. Shokal, Oakland, assignors to Shell Development Company, San Francisco, Calif. Azeotropic distillation of five carbon diolefins in the presence of methyl formate. 2,426,821; Sept. 2.
- Evans, Walter W., East Kingston, N. H., assignor to Boston Woven Hose & Rubber Company. Plasticizing of vulcanized rubber. 2,414,145; Jan. 14.
- Evans, Wayne S., assignor to S. W. Evans & Son, Philadelphia, Pa. Umbrella frame. 2,430,330; Nov. 4.
- Evans, William G., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Pelleting of catalysts. 2,413,961; Jan. 7.
- Evans, William H., Chicago, Ill. Metal removing tool. 2,421,490; June 3.
- Evans, William I.: *See*—Smith, Adrian J., and Evans.
- Everly, Steven F., Southampton, Mass., assignor to Worthington Pump and Machinery Corporation, Harrison, N. J. Compressor regulator. 2,421,872; June 10.
- Even-Pul Foundation, Inc., assignee: *See*—Morano, Patrick J.
- Everel Propeller Corporation, assignee: *See*—Everts, Walter W. Hackethal, Paul F.
- Everest, Guy N.: *See*—Bennett, Charles E., and Everest.
- Everest, Herbert A., and H. C. Jennings, Los Angeles, Calif. One-arm drive for wheel chairs. 2,431,112; Nov. 18.
- Everett, Frederick C., Brecksville, Ohio, assignor to Radio Corporation of America. Carrier wave detector circuit. 2,422,087; June 10.
- Everett Piano Company, assignee: *See*—Mansfield, George E.
- Everett, Samuel J., Thornton Heath, England. Making metal bonded abrasive tools. 2,414,226; Jan. 14.
- Everett, Samuel J., Thornton Heath, England. Pipe joint. 2,423,762; July 8.
- Everett, Samuel J., Thornton Heath, England. Hypodermic tubing, dental broaches, and the like. 2,428,518; Oct. 7.
- Everhart, James G., Zanesville, Ohio, assignor to Line Material Company, Milwaukee, Wis. Counting device. 2,420,590; May 13.
- Everling, Bernard L.: *See*—Lien, Arthur P., and Evering. Lien, Arthur P., Evering, and Shoemaker. Shoemaker, Bernard H., and Evering.
- Everitt, Philip F., Ilford, assignor of one-half to Henry Hughes & Son Limited, London, England. Apparatus for the solution of triangles. 2,428,416; Oct. 7.
- Everlasting Valve Company, assignee: *See*—Wilson, Wylie G.
- Evernden, George D., Dallas, Tex. Bean and pea pod splitter. 2,418,581; Apr. 8.
- Evers, Harry G., Newark, N. J., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Remote-control system. 2,430,284; Nov. 4.
- Eversharp, Inc., assignee: *See*—Cloutier, George D. Wahl, John C.
- Evershed and Vignoles Limited, assignee: *See*—Marchmont, William T. Needham, John C.
- Evert, Karl H., Elmhurst, Ill. Making flexible metal hose. 2,413,816; Jan. 7.
- Everts, Walter W., assignor to Everel Propeller Corporation, Baltimore, Md. Variable pitch propeller. 2,416,516; Feb. 25.
- Everts, Walter W., assignor to Everel Propeller Corporation, Baltimore, Md. Variable pitch propeller. 2,417,917; Mar. 25.
- Eves, Donald T., Minneapolis, Minn., and R. Bowers, Western Springs, Ill., assignors to International Harvester Company. Oil filter. 2,430,713; Nov. 11.
- Ewald, Mark, Olympia, Wash., assignor to Special Equipment Company, Portland, Oreg. Machine for stemming, splitting, peeling and coring pears. 2,418,827; Apr. 15.



- Ewald, Raymond L., and H. A. Skog, Olympia, Wash., assignors to Special Equipment Company, Portland, Oreg. Processing fruit. 2,420,659; May 20.
- Ewaldson, Waldemar C., Millington, N. J., assignor to Western Electric Company, Incorporated. Air operated control for machines. 2,429,261; Oct. 21.
- Ewert, John H., Los Angeles, Calif. Tool guide. 2,414,292; Jan. 14.
- Ewing, Alvin L., Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Yarn-advancing reel. 2,428,703; Oct. 7.
- Ewing, Alvin L., Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Yarn-advancing reel. 2,428,704; Oct. 7.
- Ewing, Edgar G., New Orleans, La. Venetian blind. 2,427,266; Sept. 9.
- Ewing, Robert, Dallas, Tex. Dome mounting for butane tanks. 2,418,253; Apr. 1.
- Exactrol Corporation, assignee: *See*—Kleinmann, Max.
- Excel Corporation, assignee: *See*—Le Van, John F.
- Ex-Cell-O Corporation, assignee: *See*—Dixon, Charles H.  
Hoffer, James F.  
Karweit, John W.  
Linn, Raymond.  
Mathys, Max A.  
Seyferth, Harold N., and Cork.  
Seyferth, Harold N., and Stewart.  
Stewart, Gilbert.  
Stewart, Gilbert, Brinkmann, and Seyferth.
- Excelsior Hardware Company, The, assignee: *See*—Komenak, Albert J.
- Exline, Marcus P., Dallas, Tex. Doll. 2,429,928; Oct. 28.
- Exner, Donald W., Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Generator fault protection. 2,426,005; Aug. 19.
- Exner, Donald W., Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Polarized direct-current contactor. 2,427,719; Sept. 23.
- Exolon Company, The, assignee: *See*—Amberg, Charles R., and Harrison.
- Expanded Rubber Company Limited, assignee: *See*—Shelmerdine, Henry N., and Cooper.
- Experimental Laboratories Incorporated, assignee: *See*—Dunham, Aubra R., and Williamson.
- Express Lift Company, Ltd., assignee: *See*—Hunt, Stanley T., and Goffe.
- Extruded Plastics, Inc., assignee: *See*—Slaughter, Charles E.
- Eyles, Wilfred C., Bayfield, Colo. Apparatus for sawing ornamental stones. 2,431,469; Nov. 25.
- Eypper, George W., Montclair, N. J. Cord adjusting and storage reel. 2,429,675; Oct. 28.
- Eyring, Herbert: *See*—Remesch, John, Eyring, and Moyer.
- Faber, George A.: *See*—Rubin, Abraham B., and Faber.
- Fabrique de Machines H. Hauser Soc. An., assignee: *See*—Hauser, Hans.
- Factory Mutual Research Corporation, assignee: *See*—Brown, Arthur L.
- Faehndrich, William, New York, N. Y. Manufacture of cheese. 2,423,300; July 1.
- Fafnir Bearing Company, The, assignee: *See*—Cooper, Stanley M.
- Fagen, William F.: *See*—Farr, Willard H., and Fagen.
- Fagen, William F., assignor to Stewart-Warner Corporation, Chicago, Ill. Electric fence charging apparatus. 2,415,943; Feb. 18.
- Fagen, William F., assignor to Stewart-Warner Corporation, Chicago, Ill. Electric fence charging apparatus. 2,415,944; Feb. 18.
- Fagen, William F., assignor to Stewart-Warner Corporation, Chicago, Ill. Detection of toxic gases. 2,425,059; Aug. 5.
- Fageol, William B., Kent, Ohio. Wheeled vehicle for children. 2,423,590; July 8.
- Fagerburg, Robert N., assignee: *See*—Cavanagh, Rex D.
- Fahey, Joseph P.: *See*—Egan, Charles H., Leydon, and Fahey.
- Fahlstedt, Curt H., Stockholm, Sweden. Card index. 2,423,645; July 8.
- Fahnestock, Frank C., Wenonah, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Producing gasoline of high antiknocking characteristics. 2,426,495; Aug. 26.
- Fahney, Delmer S., U. S. Navy. Glider. 2,422,662; June 24.
- Fain, Jacob M.: *See*—Tilden, Sydney G., Snell, and Fain.
- Fair Publishing House, The, assignee: *See*—Carleton, Wayne M., and Post.
- Fairbairn, Robert A., Wellesley, Mass. Method and apparatus for separating fibers. 2,420,033; May 6.
- Fairbairn, Robert A., Wellesley, Mass. Method and apparatus for separating fibers. 2,420,035; May 6.
- Fairbairn, Robert A., Needham, Mass. Method of and apparatus for parallelizing textile fibers. 2,420,034; May 6.
- Fairbairn, Robert A., Needham, Mass. Separating short coarse fibers from long fine fibers. 2,420,036; May 6.
- Fairbank, Murry N., Weston, assignor to Polaroid Corporation, Cambridge, Mass. Optical lens mounting. 2,423,491; July 8.
- Fairbank, Murry N., Weston, assignor to Polaroid Corporation, Cambridge, Mass. Lens mounting. 2,423,492; July 8.
- Fairbank, Murry N., Weston, assignor to Polaroid Corporation, Cambridge, Mass. Mold for use in the manufacture of optical elements. 2,431,926; Dec. 2.
- Fairbank, Murry N., Weston, assignor to Polaroid Corporation, Cambridge, Mass. Mold for forming precision members. 2,431,927; Dec. 2.
- Fairbanks, Anthony M., Buffalo, N. Y., assignor to Curtiss-Wright Corporation. Weight and balance computer. 2,432,738; Dec. 16.
- Fairbanks, Morse & Co., assignee: *See*—Kuttner, Julius.  
Schreck, Henry.  
Ward, Willard H.
- Fairchild Camera and Instrument Corporation, assignee: *See*—Canziani, Victor J., and Stellwagen.  
Doyle, Irving W.  
Doyle, Irving W., and Johnson.  
Gacki, Leonard W.  
Johnson, Carl V., and Herbstreit.  
Lindenberg, Theodore, Jr., and Howell.  
Moore, David W., Jr.  
Nash, Alfred G.
- Fairchild Engine and Airplane Corporation, assignee: *See*—DePew, Chester C.  
Piry, Marcel.
- Fairchild, William R., Seminary, Miss. Portable pile driver. 2,423,301; July 1.
- Fairey Aviation Company Limited, The, assignee: *See*—Boddy, Edward J.  
Forsythe, Archibald G.  
MacArthur, William W., and Welham.  
Perkins, Reginald.
- Faires, William J., Chicago, Ill. Antisnore device. 2,424,533; July 22.
- Fairey Aviation Company Limited, The, assignee: *See*—Forsyth, Archibald G.  
Welham, Geoffrey L. F.
- Fairman, Francis E., Jr., South Ardmore, Pa., assignor to General Electric Company. Interchangeable electric switchgear. 2,424,081; July 15.
- Falco, Louis A., assignor to The Dextone Company, New Haven, Conn. Building structure. 2,423,695; July 8.
- Falcon Products, Inc., assignee: *See*—Hamer, Leland S.
- Falconbridge Nickel Mines, Limited, assignee: *See*—Gronningsaeter, Anton M.
- Falk, Alfred E., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. High-frequency apparatus. 2,423,968; July 15.
- Falk, Alfred E., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Impulse generator. 2,428,149; Sept. 30.
- Falk & Company, assignee: *See*—Church, John W.
- Falk Corporation, The, assignee: *See*—Falk, Louis W.  
Schmitter, Walter P., and Wellauer.
- Falk, Ernest C., and R. S. Storrs, Torrington, Conn., assignors to The American Brass Company. Water-cooled slab mold. 2,428,657; Oct. 7.
- Falk, Ernest C., and R. S. Storrs, Torrington, Conn., assignors to The American Brass Company. Water-cooled slab mold. 2,428,658; Oct. 7.
- Falk, Ernest C., and R. S. Storrs, Torrington, Conn., assignors to The American Brass Company. Water-cooled slab mold. 2,428,659; Oct. 7.
- Falk, Ernest C., and R. S. Storrs, Torrington, Conn., assignors to The American Brass Company. Water-cooled slab mold. 2,428,660; Oct. 7.
- Falk, Louis W., assignor to The Falk Corporation, Milwaukee, Wis. Gear testing apparatus. 2,433,510; Dec. 30.
- Fall, Albert P., Toledo, Ohio. Piston ring assembly. 2,424,881; July 29.
- Fall, Albert P., Toledo, Ohio. Rod wiper for alighting gear. 2,431,796; Dec. 2.
- Fallesen, George E., assignor to Eastman Kodak Company, Rochester, N. Y. Aromatic hydrocarbons and their halogen derivatives as antifoggants. 2,418,629; Apr. 8.
- Fallon, Wilmer S., Cleveland, Ohio. Fluid pump or motor. 2,417,816; Mar. 25.
- Fallows, Leonard, and E. V. Mellers, Spondon, near Derby, assignors to British Celanese Limited, London, England. Manufacture of hydrogen cyanide. 2,429,262; Oct. 21.
- Falls Spring & Wire Company, assignee, et al.: *See*—Heuer, Lawrence H.
- Falter, Urban M., assignor to The Standard Register Company, Dayton, Ohio. Manifold assembly. 2,420,660; May 20.
- Fansteel Metallurgical Corporation, assignee: *See*—Fry, Stanley S.



- Faraday Electric Corporation, assignee: *See—*  
Smith, Charles C.
- Faralla, Raoul A., Long Branch, N. J. Telephone substation circuit. 2,417,067; Mar. 11.
- Färber, Eduard: *See—*  
Schade, Arthur L., and Färber.
- Färber, Eduard, New Haven, Conn., assignor to Polyxor Chemical Co., Inc. Processing thermoplastic resins from cellulose and rosin acids. 2,418,293; Apr. 1.
- Farber, Eduard, Washington, D. C., assignor, by mesne assignments, to Evans Products Company, Detroit, Mich. Wood battery separator and producing same. 2,422,003; June 10.
- Färber, Eduard, New Haven, Conn., and J. S. Wallerstein, New York, N. Y., assignors to The Overly Biochemical Research Foundation, Inc. Recovery of unfermented and unfermentable sugars from saccharified starch sugars. 2,413,698; Jan. 7.
- Fareso, John, Hornchurch, assignor to G. B. Morgan, London, England. Rotary internal-combustion engine of the rotating abutment type. 2,423,763; July 8.
- Faris, Harold P., Philadelphia, Pa., and J. E. White, Trenton, N. J., assignors to National Automotive Fibres Inc., Detroit, Mich. Adhesive applying mechanism for use in carpet making machines. 2,414,728; Jan. 21.
- Farish, Edward A., assignor of one-tenth of C. Romanet, Washington, D. C. Watercraft. 2,427,772; Sept. 23.
- Farkas, Adalbert, and A. F. Stribley, Jr., Long Beach, assignors to Union Oil Company of California, Los Angeles, Calif. Hydrocarbon peroxides. 2,430,864; Nov. 18.
- Farkas, Adalbert, and A. F. Stribley, Jr., Long Beach, assignors to Union Oil Company of California, Los Angeles, Calif. Naphthene peroxides. 2,430,865; Nov. 18.
- Farkas, Francis S., Forest Hills, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave transmission system. 2,417,069; Mar. 11.
- Farkas, George B.: *See—*  
Gunter, Addison Y., and Farkas.
- Farley, Edward E., Pocatello, Idaho. Scalp massager. 2,419,062; Apr. 15.
- Farley, Francis F., Alton, Ill., assignor to Shell Development Company, San Francisco, Calif. Corrosion protecting compositions. 2,426,496; Aug. 26.
- Farlow, Mark W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of n-methylamides. 2,422,400; June 17.
- Farlow, Mark W., and W. A. Lazier, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Catalytic synthesis of vinyl cyanide. 2,417,068; Mar. 11.
- Farm Tools, Inc., assignee: *See—*  
Warne, Frederick C.
- Farmer, Carl, and J. K. Mack, Kansas City, Mo. Safety appliance. 2,426,768; Sept. 2.
- Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Ring type cylinder and piston. 2,428,452; Oct. 7.
- Farmer, Max D.: *See—*  
Stacy, Thomas F., and Farmer.
- Farmer, Paul M., Madison, N. J. Article assembly system for stores. 2,416,870; Mar. 4.
- Farnham, Evelyn C., San Bernardino, Calif., assignor to S. W. Chaffee, New York, N. Y. Telephone dial attachment. 2,420,070; May 6.
- Farnsworth Research Corporation, assignee: *See—*  
Buckbee, John A.  
Essig, Sanford F.  
Larson, Christian C.  
Lord, Benjamin C.  
Mayle, Louis F.  
Rasley, Donald R.  
Sprigman, Arthur.  
Wolfgang, Lozure G.
- Farnsworth Television and Radio Corporation, assignee: *See—*  
Bartels, Arnold H.  
Buckbee, John A.  
Cawein, Madison.  
Essig, Sanford F.  
Falk, Alfred E.  
Ferguson, Joe C.  
Ferguson, Joseph C.  
Hallmark, Clyde E.  
Henroteau, Francois C. P.  
Larson, Chris C.  
Larson, Christian C.  
Relly, Robert D.  
Roman, Alfred F.  
Salinger, Hans W. G.  
Sanders, Robert W.  
Schantz, Joseph D.
- Farny, Eugene R., Morris Plains, N. J. Coin controlled washing machine. 2,427,396; Sept. 16.
- Farr, Edward A., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind. Electric iron. 2,416,984; Mar. 4.
- Farr, Henry V., Ferguson, assignor to Mallinckrodt Chemical Works, St. Louis, Mo. Making metal halides. 2,415,346; Feb. 4.
- Farr, Warren H., Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa. Harrow disk. 2,416,742; Mar. 4.
- Farr, Warren H., Grosse Pointe Farms, and C. L. Eksergian, Detroit, Mich., assignors to The Budd Company, Philadelphia, Pa. Conveyor loader. 2,427,324; Sept. 9.
- Farr, Willard H., and W. F. Fagen, assignors to Stewart-Warner Corporation, Chicago, Ill. Electric fence charging apparatus. 2,415,942; Feb. 18.
- Farr, William W., Grosse Pointe, Mich., assignor, by mesne assignments, to United States of America. Rocket projectile. 2,422,721; June 24.
- Farrand, Edith M., Minneapolis, Minn. Folding bassinet. 2,429,350; Oct. 21.
- Farrar, Alvin J.: *See—*  
Troche, Herman J., and Farrar.
- Farrar, Gerald L., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Isomerization process. 2,422,346; June 17.
- Farrel-Birmingham Company, Inc., assignee: *See—*  
Gasser, Emil R.  
Gordon, William A.  
Schnuck, Carl E.
- Farrell-Cheek Steel Company, assignee: *See—*  
Ortman, Frank W.
- Farrell, Eugene F.: *See—*  
Neumann, George R., Farrell, and Davis.
- Farrell, Francis E.: *See—*  
Underwood, Garfield J., and Farrell.
- Farrell, Leo E., South Haven, assignor to Titan Manufacturing Company, Grand Rapids, Mich. Automatic screw control. 2,430,458; Nov. 11.
- Farrell, Richard R.: *See—*  
McElhose, Robert T., and Farrell.
- Farrell, Robert A., and C. L. Wagner, Menasha, Wis., assignors to Marathon Corporation. Laminated sheet heat-sealable container. 2,430,459; Nov. 11.
- Farrell, William S., Los Angeles, Calif. Sound reproducing system. 2,413,700; Jan. 7.
- Farrer, William M., assignee, et al.: *See—*  
Roach, Edward.
- Farrington, Bruce B., Berkeley, R. L. Humphreys, El Segundo, and R. T. Macdonald, Berkeley, assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif. Treatment of frictional surfaces to facilitate wearing-in. 2,414,293; Jan. 14.
- Farrington, Bruce B., J. O. Clayton, and J. T. Rutherford, Berkeley, assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif. Compounded mineral oil. 2,416,985; Mar. 4.
- Farrington, C. H., assignee: *See—*  
McCarter, William L.
- Farrington, Hastings M., London, W. C. 1, England. Propelling pencil. 2,427,648; Sept. 16.
- Farris, Michael O., Eagle Rock, and J. M. O'Connor, and R. B. Gottschalk, Burbank, Calif., assignors, by mesne assignments, to Lockheed Aircraft Corporation. Fire extinguishing fluid. 2,432,146; Dec. 9.
- Farrow, Cecil, Bainbridge Township, Geauga County, assignor to Republic Steel Corporation, Cleveland, Ohio. Nondestructive electrical testing of metals. 2,415,789; Feb. 11.
- Farrow, Cecil, Bainbridge Township, Geauga County, assignor to Republic Steel Corporation, Cleveland, Ohio. Method and apparatus for determining phase shift. 2,416,517; Feb. 25.
- Farrow, Frederick R., Jr., Audubon, N. J., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Control apparatus for motor operated device. 2,416,166; Feb. 18.
- Farrow, Frederick R., Jr., Audubon, N. J., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Control apparatus for reversible motors. 2,417,593; Mar. 18.
- Farwell, Daniel E.: *See—*  
Davis, Harry I., and Farwell.
- Fash, Ralph H.: *See—*  
Fulmer, Ellis I., Dunning, and Fash.
- Fasold, George A.: *See—*  
Greider, Harold W., and Fasold.  
Greider, Harold W., Fasold, and Bowman.
- Fasold, George A., Mount Healthy, and H. W. Greider, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company. Shingle. 2,421,415; June 3.
- Fasold, George A., Mount Healthy, and W. V. Leibbrook, Hamilton, Ohio, assignors to the Philip Carey Manufacturing Company. Lap joint prepared roofing. 2,423,302; July 1.
- Fasold, George A., Mount Healthy, and W. V. Leibbrook, Hamilton, Ohio, assignors to The Philip Carey Manufacturing Company. Button locked down weather surfacing elements. 2,429,456; Oct. 21.
- Fassett, George R., Elmira Heights, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Bobbin holder. 2,432,612; Dec. 16.
- Fassin, Gustave, Arcadia, assignor, by mesne assignments, to Lane-Wells Company, Los Angeles, Calif. Multiple graticule magnifier with transparent reflector. 2,431,666; Nov. 25.
- Fassnacht, Hartwell H., Wenonah, N. J., and C. A. Woodbury, Media, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive. 2,425,310; Aug. 12.



- Fast, Gustave: *See*—  
Mulholland, David E., Fast, and Lawrence.
- Fast, Marion L., South Bend, assignor to Dodge Manufacturing Corporation, Mishawaka, Ind. Clutch and brake mechanism. 2,418,019; Mar. 25.
- Fastborg, Anton A. R., Stockholm, Sweden. Holder for front fork of bicycles. 2,415,735; Feb. 11.
- Fator, Charles D., San Antonio, Tex. Self-threading and locking screw. 2,419,555; Apr. 29.
- Fatur, James L., Culver City, Calif. Household utility truck. 2,417,918; Mar. 25.
- Faulds, George, Philadelphia, Pa. Vehicle wheel. 2,433,605; Dec. 30.
- Fauley, Gordon B., U. S. Navy, and A. C. Ivy, Chicago, Ill. Composite cream which, when applied to the skin, forms a protective coating against flash-burns. 2,425,311; Aug. 12.
- Faulkner, Alfred H., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Split-phase relay. 2,425,179; Aug. 5.
- Faulkner, Waldron, Washington, D. C. Window louvre. 2,419,635; Apr. 29.
- Faure, André and A., Firminy, France; vested in the Alien Property Custodian. Crane. 2,413,701; Jan. 7.
- Faure, Antoine: *See*—  
Faure, André and A.
- Faus, Harold T., Lynn, Mass., assignor to General Electric Company. Electric pickup. 2,415,681; Feb. 11.
- Faust, Alexander L., New York, N. Y. Type assembly unit for laundry marking machines. 2,428,560; Oct. 7.
- Faust, Carl R.: *See*—  
Huse, Herbert W., Faust, and Leininger.
- Faust, Charles L., assignor to Battelle Memorial Institute, Columbus, Ohio. Electrolyte for and anodically polishing nickel. 2,429,676; Oct. 28.
- Faust, Jacob: *See*—  
Murphy, Thomas G., and Faust.
- Fausz, William H., Newport, Ky. Quick release means for parachute harness. 2,420,037; May 6.
- Fawcett, Cecil C., Philadelphia, Pa. Securing a hair spring to an arbor. 2,424,230; July 22.
- Fawcett, Cecil C., Philadelphia, Pa. Mechanical time fuse. 2,426,190; Aug. 26.
- Fawcett, Eric W. M., Sunbury-on-Thames, assignor to Anglo-Iranian Oil Company Limited, London, England. Production of branched chain alkanes. 2,415,628; Feb. 11.
- Fawcett, Eric W. M., and G. I. Jenkins, Sunbury-on-Thames, assignors to Anglo-Iranian Oil Company, Limited, London, England. Production of branched chain alkanes. 2,428,841; Oct. 14.
- Fawick, Thomas L., Akron, Ohio. Assembly for brakes and clutches. 2,422,227; June 17.
- Fawick, Thomas L., Akron, Ohio. Composite bushing. 2,428,932; Oct. 14.
- Fawick, Thomas L., Akron, Ohio. Assembly for clutches or brakes. 2,428,933; Oct. 14.
- Fawkes, Donald G., assignor to Crane Co., Chicago, Ill. Valve actuating means. 2,414,032; Jan. 7.
- Fawkes, Walter H., Harefield, England. Ammonia evolving composition. 2,431,470; Nov. 25.
- Faximile, Inc., assignee: *See*—  
Hogan, John V. L., and Ressler.
- Fay, Benton L., St. Joseph, Mich. Ash receiver for desks. 2,432,402; Dec. 9.
- Fay, Charles H., Houston, Tex., assignor to Shell Development Company, San Francisco, Calif. Magnetic field measurements. 2,425,180; Aug. 5.
- Fay, Charles H., Houston, Tex., assignor to Shell Development Company, San Francisco, Calif. Go-devil device for locating obstructions in pipe lines. 2,428,326; Sept. 30.
- Fay, Clifford E., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. High power electronic discharge device for generating ultra-high frequency radiations. 2,423,443; July 8.
- Fay, Clifford E., Chatham, N. J., and J. W. West, Jackson Heights, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,414,805; Jan. 28.
- Fay, Gordon C.: *See*—  
Miller, Fred M., Shape, McClelland, and Fay.
- Fay, Harold J. W., Westboro, assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass. Antenna system. 2,428,793; Oct. 14.
- Fayolle, Marius, assignee: *See*—  
Ancet, V. M. J.
- Fayolle, Marcel, assignee (Alias): *See*—  
Ancet, Victor M. J.
- Feagin, Roy C.: *See*—  
Zahn, Eric H., and Feagin.
- Fearing, Justin L.: *See*—  
Deloraine, Edmond M., and Fearing.
- Fearon, Robert E., assignor to Well Surveys, Incorporated, Tulsa, Okla. Well surveying apparatus. 2,414,862; Jan. 28.
- Featherbone, Warren, Co., The, assignee: *See*—  
Haman, Howard H., and Ritzler.
- Febbraro, Mario, Union City, N. J. Bottle closure. 2,418,60; Apr. 8.
- Fedde, Arnold M., Brooklyn, N. Y. Gyroscope sighting system having a fixed line of sight. 2,432,613; Dec. 16.
- Fedders-Quigan Corporation, assignee: *See*—  
Lee, Le Fever M.
- Federal Carton Corporation, assignee: *See*—  
Dorfman, Irving.
- Federal Electric Company, Inc., assignee: *See*—  
Barclay, Robert E.
- Federal Electric Products Company, Inc., assignee: *See*—  
Christensen, Paul M.
- Federal Laboratories, Inc., assignee: *See*—  
Weinert, Carl R.
- Federal Reserve Bank of Philadelphia, assignee: *See*—  
Birmann, Rudolph.
- Federal Telecommunication Laboratories, Inc., assignee: *See*—  
Grieg, Donald D., and Levine.
- Federal Telegraph Company, assignee: *See*—  
Romander, Hugo.
- Federal Telephone and Radio Corporation, assignee: *See*—  
Alford, Andrew.
- Alford, Andrew, and Marchand.
- Babcock, Albert L.
- Bancroft, Erwin P., and Jatlow.
- Betzler, Henry W.
- Bloom, Mortimer C.
- Bokovoy, Samuel A.
- Bokovoy, Samuel A., and Garrison.
- Brandt, Walter.
- Brillouin, Leon N.
- Busignies, Henri G.
- Busignies, Henri G., and Richardson.
- Chevigny, Paul G.
- Churnell, Frank J.
- Clark, Trevor H.
- Clark, Trevor H., and Vander Woude.
- Clarke, Carole A.
- Daubaras, Edward.
- Deloraine, Edmond M., and Fearing.
- Deloraine, Edmond M., and Labin.
- Deloraine, Edmond M., and Lehmann.
- De Rosa, Louis A.
- Dodginton, Sven H. M.
- Dubin, Lester.
- Edmonds, Frank W.
- Erb, George H.
- Escoffery, Charles A., and Werbel.
- Fiore, William, and Kotterman.
- Frabutt, Joseph A.
- Frankel, Sidney.
- Frink, Frederick W.
- Grieg, Donald D.
- Himmel, Leon.
- Himmel, Leon, and Fuchs.
- Hoffman, Ross B.
- Hoisington, William F.
- Hotine, William.
- Kandoian, Armig G.
- Kotterman, Chester A.
- Krause, Irving A.
- Kress, Bernard H.
- Labin, Emile.
- Labin, Emile, and Grieg.
- Labin, Emile, and Kandoian.
- Labin, Emile, and Ostlund.
- Lambert, George W.
- Le Grand, Jesse S., and La Bossiere.
- Libby, Lester L.
- Litton, Charles V.
- Lundberg, Frank J.
- Marchand, Nathan.
- Miller, Arthur J., and Mueller.
- Miner, Walter A., Jr.
- Ostlund, Evert M., and Sokoloff.
- Peckham, David H.
- Preisman, Albert.
- Richardson, Avery G.
- Richardson, Avery G., and Bednash.
- Rothbart, Arthur.
- Royden, George T.
- Salazar, Alfred M.
- Saslaw, Otto.
- Segerstrom, Carl A., Jr.
- Silver, Martin.
- Skinker, Murray F.
- Skinker, Murray F., and Haigh.
- Taylor, Warren G., and Baxter.
- Van Sant, Victor H.
- Von Hippel, Arthur, and Schulman.
- Warner, Arthur J., and Baldwin.
- Warner, Arthur J., and Crater.
- Weldon, James O.
- Wheeler, Carson McK.
- Widmaier, William.
- Young, Norman H., Jr.
- Fedorchak, William J., Granite City, and A. S. Jackson, Wood River, Ill., assignors to Owens-Illinois Glass Company. Apparatus for testing and selecting hollow ware. 2,432,871; Dec. 16.
- Feenberg, Eugene, New York, N. Y., assignor to Sperry Gyroscope Company, Inc. Velocity modulation electron discharge apparatus. 2,431,683; Dec. 2.
- Fees, John N., Spokane, assignor to H. Brandt, Palouse, and L. O. Ballard, Spokane, Wash. Loader. 2,425,695; Aug. 12.



- Fehr, David D., Winkler, Manitoba, Canada. Free-winged aircraft. 2,426,086; Aug. 19.
- Feibelmann, Richard, assignor, by mesne assignments, to Heyden Chemical Corporation, New York, N. Y. Hygroscopic liquid composition and the process of softening paper with said composition. 2,423,566; July 8.
- Feichter, Harold R., assignor to United States Quarry Tile Company, Canton, Ohio. Vitreous and vitrifiable compositions of matter, and making the same. 2,414,367; Jan. 14.
- Feichter, Harold R., assignor to United States Quarry Tile Company, Canton, Ohio. Vitreous and vitrifiable compositions of matter, and making the same. 2,414,368; Jan. 14.
- Feichter, Harold R., assignor to United States Quarry Tile Company, Canton, Ohio. Vitreous and vitrifiable compositions of matter, and making the same. 2,414,369; Jan. 14.
- Feight, Oscar J., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Compartmented safety type feed unit for grinders. 2,426,346; Aug. 26.
- Fellbach, George I.: *See—*  
Volpe, Michael.
- Feld, Alexander L., Baltimore, Md., assignor, by mesne assignments, to The American Rolling Mill Company, Middletown, Ohio. Production of stainless steel. 2,430,117; Nov. 4.
- Feld, Alexander L., Baltimore, Md., assignor, by mesne assignments, to The American Rolling Mill Company, Middletown, Ohio. Alloy process. 2,430,671; Nov. 11.
- Feld, James W., Alexandria, Va. Liquid flow calculator. 2,422,663; June 24.
- Feld, Joseph L., Detroit, Mich. Rubbing, sanding, or polishing block. 2,417,356; Mar. 11.
- Feld, Theophilus A., Jr.: *See—*  
Rugeley, Edward W., and Feld.
- Feld, Theophilus A., Jr., Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Making elastic vinyl copolymer resin textile articles. 2,428,453; Oct. 7.
- Fein, Martin L., Riverside, N. J., and C. H. Fisher, Abington, Pa., assignors to United States of America as represented by Claude R. Wickard, Secretary of Agriculture, and his successors in office. Purifying acrylic esters. 2,414,589; Jan. 21.
- Fein, Nathan, assignee: *See—*  
Chodor, Abraham.
- Feinberg, Archie S., Dallas, Tex. Water elevating and distributing system. 2,428,842; Oct. 14.
- Feinman, Sam: *See—*  
Blanchard, Fred P., and Feinman.
- Feinstone, Wolfe H., and H. L. Friedman, assignors to Pyridium Corporation, Yonkers, N. Y. Pyridine compounds. 2,433,267; Dec. 23.
- Feiring, Abraham, assignee: *See—*  
Feiring, Monroe J.
- Feiring, Monroe J., assignor to A. Feiring, Bronx, N. Y. Wrench. 2,426,191; Aug. 26.
- Feitl, Rudolf, Brooklyn, assignor to Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Punch and die mechanism. 2,423,423; July 1.
- Felch, Edwin P., Jr., Chatham, N. J., and T. Slonczewski, Glenwood Landing, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic field strength indicator. 2,427,666; Sept. 23.
- Feld, Louis, Los Angeles, Calif. Flexible stitchless billfold. 2,425,461; Aug. 12.
- Felderstein, Lester: *See—*  
Pluta, Peter, and Felderstein.
- Feldhake, Leon A., Santa Fe, N. Mex. Bootee. 2,415,004; Jan. 28.
- Feldman, Carl B. H., Rumson, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Microwave antennas. 2,415,089; Feb. 4.
- Feldman, Carl B. H., Rumson, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Directive antenna system. 2,419,205; Apr. 22.
- Feldman, Carl B. H., Rumson, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Scanning antenna. 2,419,556; Apr. 29.
- Feldman, Carl B. H., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wobbled radio carrier communication system. 2,422,664; June 24.
- Feldmann, Paul: *See—*  
Womble, Glenn F., and Feldmann.
- Feldscher, Willard, San Mateo, assignor to The Goldfield Consolidated Mines Company, San Francisco, Calif. Intercommunication system. 2,427,496; Sept. 16.
- Felix, Friedrich, Basel, and R. von Capeller, Riehen, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Azo dyes from 2,6 dihalo 4 nitriline. 2,421,553; June 3.
- Felix, Friedrich, and H. Riat, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Monoazo dyes. 2,432,403; Dec. 9.
- Fell, Raymond E.: *See—*  
Miller, John W., and Fell.
- Fellabaum, John P., Dayton, Ohio. Tandem axle running gear for transportation vehicles. 2,433,268; Dec. 23.
- Fellabaum, John P., Warren, Ohio. Transportation vehicle. 2,433,269; Dec. 23.
- Felley, Charles A., Ite, N. Y. Tie-lock for neckties. 2,413,756; Jan. 7.
- Fellows, Julian R., assignor to The Board of Trustees of the University of Illinois, Urbana, Ill. Down-draft furnace. 2,433,036; Dec. 23.
- Felt & Tarrant Manufacturing Company, assignee: *See—*  
Laiho, Jalmer M.
- Felton, George E.: *See—*  
Schopmeyer, Herman H., and Felton.
- Felton, Lloyd C., Baltimore, Md., assignor to Hynson, Westcott & Dunning, Incorporated. Fungicides. 2,426,864; Sept. 2.
- Fennell, Frank C.: *See—*  
Formhals, William H., and Fennell.
- Fennema, Richard, assignor to Crane Co., Chicago, Ill. Pressure sealed joint. 2,426,392; Aug. 26.
- Fennema, Richard, and F. J. Cantalupo, assignors to Crane Co., Chicago, Ill. Mounting for pressure sealed joints. 2,428,963; Oct. 14.
- Fenney, William N., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Operating internal-combustion engines. 2,431,857; Dec. 2.
- Fenton, Paul E., Middlebury, assignor to Scovill Manufacturing Company, Waterbury, Conn. Hand tool for setting snap fasteners. 2,413,702; Jan. 7.
- Fentress, David W., Barrington, assignor to Chicago Metal Hose Corporation, Maywood, Ill. Apparatus for electrically welding spiral tubing. 2,431,743; Dec. 2.
- Ferer, Kay, Inc., assignee: *See—*  
Norton, Marjorie.
- Ferguson, Arthur P., and H. S. Jandus, assignors to Houdaille-Hershey Corporation, Detroit, Mich. Automobile brake operating structure. 2,429,224; Oct. 21.
- Ferguson, Alexander D., Michigan City, Ind., assignor to Joy Manufacturing Company. Valve mechanism. 2,417,246; Mar. 11.
- Ferguson, Bassett, Jr., Media, Pa., assignor to The United Gas Improvement Company. Determination of diolefin material in a gaseous mixture. 2,423,377; July 1.
- Ferguson, Benjamin S., Dallas, Tex. Removable roof. 2,415,202; Feb. 4.
- Ferguson, Benjamin S., Dallas, Tex. Tent frame. 2,432,620; Dec. 16.
- Ferguson, Berlin S., assignor to The Byers Machine Company, Ravenna, Ohio. Material handling machine. 2,414,146; Jan. 14.
- Ferguson, Frank A., Baytown, Tex., assignor to Standard Oil Development Company. Lined vessel. 2,420,038; May 6.
- Ferguson, Harry, Inc., assignee: *See—*  
Gaertner, Glenton G.
- Ferguson, Henry G., Belfast, Northern Ireland. Trailer attachment and hitch for tractors. 2,432,739; Dec. 16.
- Ferguson, James D., U. S. Navy, Arlington, Va. Computer. 2,426,192; Aug. 26.
- Ferguson, Joe C., Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Modulating system. 2,431,471; Nov. 25.
- Ferguson, John E.: *See—*  
Wunsch, Karl F., and Ferguson.
- Ferguson, John L.: *See—*  
Lowey, Roy E., and Ferguson.
- Ferguson, John S.: *See—*  
Beck, Edward F. W., and Ferguson.
- Ferguson, Joseph C., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Frequency multiplier. 2,427,204; Sept. 9.
- Ferguson, Kenneth C., assignor to Inland Container Corporation, Indianapolis, Ind. Foldable fiberboard egg case. 2,427,397; Sept. 16.
- Ferguson, Robert O., assignor of one-half to Bristol Steel & Iron Works, Inc., Bristol, Va.-Tenn. Container and scraping device therefor. 2,418,502; Apr. 8.
- Ferguson, Robert O., assignor of one-half to W. J. Tilley, Bristol, Tenn. Brassiere. 2,425,673; Aug. 12.
- Ferguson, Robert O., Bristol, Tenn., assignor of one-half to Bristol Steel & Iron Works, Inc., Bristol, Va.-Tenn. Knee pad. 2,432,565; Dec. 16.
- Ferguson, William C., assignor to The Presstite Engineering Company, St. Louis, Mo. Beading. 2,416,798; Mar. 4.
- Ferguson, William C., and P. Sussenbach, assignors to The Presstite Engineering Company, St. Louis, Mo. Heat-conductive luting material. 2,427,398; Sept. 16.
- Ferguson, William H., Malden, assignor to H. K. Porter, Inc., Everett, Mass. Dolly. 2,416,916; Mar. 4.
- Ferla, John, East Orange, assignor to U. S. Asbestos Cement Pipe Company, Camden, N. J. Pipe. 2,416,618; Feb. 25.
- Fern, Jules, assignor to Fern Shoe Co., Los Angeles, Calif. Shoe and making same. 2,431,858; Dec. 2.
- Fern Shoe Co., assignee: *See—*  
Fern, Jules.
- Fernald, Mark E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Nail chuck for nailing machines. 2,429,263; Oct. 21.
- Fernández, Fernando, Mexico City, Mexico. Method of and apparatus for intaglio plate printing. 2,427,556; Sept. 16.



- Fernier, Bernard M. H. P., Lyon, France; vested in the Attorney General of the United States. Electric circuit breaker. 2,430,008; Nov. 4.
- Fernsler, George L., Lawrenceville, N. J., assignor to Radio Corporation of America. Radio transmitter automatic volume control. 2,426,193; Aug. 26.
- Fernstrum, Robert W., assignor to Marine Products Company, Detroit, Mich. Centrifugal pump and automatic primer. 2,428,487; Oct. 7.
- Ferodo Limited, assignee: *See*—Morton, Henry C.
- Feroy, Arne, New York, N. Y. Oil pump. 2,417,474; Mar. 18.
- Ferracuta Machine Company, assignee: *See*—Crawford, Alfred R.
- Ferrante, John, assignor to Kenlea Manufacturing Company, Johnstown, N. Y. Filter. 2,425,235; Aug. 5.
- Ferrante, John, assignor to Kenlea Manufacturing Company, Johnstown, N. Y. Making flocked material. 2,425,236; Aug. 5.
- Ferrar, Bernard, Los Angeles, Calif. Combined skate and sandal. 2,422,228; June 17.
- Ferrara, Michael, Brooklyn, N. Y. Ball bearing roller bodyside type vehicle. 2,418,703; Apr. 8.
- Ferrel, Clyde B., San Francisco, Calif., assignor to Ferrel Industries, Inc., Reno, Nev. Gun sight. 2,423,141; July 1.
- Ferrel Industries, Inc., assignee: *See*—Ferrel, Clyde B.
- Ferrell, Enoch B., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Indicating system. 2,423,829; July 15.
- Ferrell, Enoch B., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relay testing device. 2,432,092; Dec. 9.
- Ferrer, Ricardo M., assignee: *See*—Del Llano, Jose S.
- Ferris, Daniel, St. Louis, Mo. Bottle carrier. 2,433,037; Dec. 23.
- Ferris, Donald K., assignor to General Motors Corporation, Dayton, Ohio. Metallurgical apparatus. 2,428,068; Sept. 30.
- Ferris, Donald K., assignor to General Motors Corporation, Dayton, Ohio. Electromagnetic ironing machine. 2,430,285; Nov. 4.
- Ferris, Robert G., Harvard, Ill., assignor to the United States of America as represented by the Secretary of Navy. Set-back switch. 2,419,828; Aug. 29.
- Ferris, Robert G., Harvard, Ill., assignor to United States of America, as represented by the Secretary of the Navy. Switch. 2,424,390; July 22.
- Ferris, Walter, assignor to The Oilgear Company, Milwaukee, Wis. Rotor for hydrodynamic machines. 2,427,325; Sept. 9.
- Ferris, Warren R., Kingston, N. J., assignor to Radio Corporation of America. Electronic discriminator. 2,422,088; June 10.
- Ferro, Bernardo J., Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company. Pebble heater. 2,432,520; Dec. 16.
- Ferro, Bernardo J., Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company. Pebble heater. 2,432,872; Dec. 16.
- Ferro, Bernardo J., Jr., and J. F. Church, Bartlesville, Okla., assignors to Phillips Petroleum Company. Pebble heater control. 2,432,873; Dec. 16.
- Ferro Enamel Corporation, assignee: *See*—Bryant, Eugene E.
- Ferro Engineering Company, The, assignee: *See*—Rees, Hiram P., and Bidner. Urmetz, Walter W.
- Ferry Cap & Set Screw Company, The, assignee: *See*—Greene, Elmer G.
- Ferry, Clayton W.: *See*—Pingert, Frederick P., and Ferry.
- Fershko, Reuben: *See*—Porter, Charles A., and Fershko.
- Fertitta, Frank, Melrose Park, Ill. Buckle strap assembling machine. 2,416,437; Feb. 25.
- Fescol Limited, assignee: *See*—Allcock, William, Jr.
- Fessenden, Walter P., Chicago, Ill., assignor, by mesne assignments, to National Folding Box Company, Incorporated. Dispensing slide closure for paperboard containers. 2,431,744; Dec. 2.
- Fetchter, John R.: *See*—Adams, Comfort A., Fetchter, and Stocker.
- Fetter, Gordon B., Vandalia, Ohio. Trouser hanger. 2,429,712; Oct. 28.
- Fetter, Norman C., Freeport, Ill., assignor, by mesne assignments, to First Industrial Corporation, Wilmington, Del. Overtravel switch actuator. 2,418,222; Apr. 1.
- Fetterly, Lloyd C., Long Beach, assignor to Shell Development Company, San Francisco, Calif. Conversion of hydrosulfides to neutral sulfur substances. 2,426,087; Aug. 19.
- Fetterly, Lloyd C., Long Beach, assignor to Shell Development Company, San Francisco, Calif. Preparation of a tungsten sulfide containing catalyst. 2,430,632; Nov. 11.
- Fetterly, Lloyd C., Long Beach, assignor to Shell Development Company, San Francisco, Calif. Conversion of hydrosulfides to neutral sulfur compounds. 2,432,301; Dec. 9.
- Fetterman, Oscar B., Washington, D. C. Support and brace therefor. 2,426,443; Aug. 26.
- Fetterolf, Layton R., Middletown Township, Bucks County, assignor of one-half to F. J. Werner, Jr., Lansdale, Pa. Golf club. 2,429,351; Oct. 21.
- Feustel, Ernest A., Hasbrouck Heights, assignor to Ernest A. Feustel, Inc., East Rutherford, N. J. Yarn carrier. 2,416,167; Feb. 18.
- Feustel, Ernest A., Hasbrouck Heights, assignor to Ernest A. Feustel, Inc., East Rutherford, N. J. Yarn guide. 2,422,535; June 17.
- Feustel, Ernest A., Inc., assignee: *See*—Feustel, Ernest A.
- Ffolliott, Charles F., Batavia, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Telephone recording system. 2,431,797; Dec. 2.
- Fiat Metal Manufacturing Co., assignee: *See*—Nilson, Stanley E.
- Fibre Products Laboratories, Inc., assignee: *See*—Goldman, Joshua H. Goldman, Maurice A.
- Fickenscher, Paul H.: *See*—Ehemann, George C., Jr., and Fickenscher.
- Fidelity Machine Company, Inc., assignee: *See*—Larkin, Walter.
- Field, Crosby, assignor to Flakice Corporation, Brooklyn, N. Y. Pneumatic nozzle. 2,425,237; Aug. 5.
- Field, Crosby, assignor to Flakice Corporation, Brooklyn, N. Y. Method of and apparatus for rotary extruder. 2,427,644; Sept. 16.
- Field, Donald C.: *See*—Thomas, Robert M., and Field.
- Field, Edward A., Jr., Mendota, Ill. Draft regulator. 2,433,749; Dec. 30.
- Field and Flint Co., assignee: *See*—Maguire, John J.
- Field, Herbert M., Portland, Oreg. Screw thread cutting machine. 2,414,515; Jan. 21.
- Field, Howard, Jr., Los Angeles, Calif. Automatic shut-off valve for hydraulic transmission systems. 2,428,150; Sept. 30.
- Field, Oscar S.: *See*—Wight, Sedgwick N., and Field. Wight, Sedgwick N., Field, and Coley.
- Field, Oscar S., assignor to General Railway Signal Company, Rochester, N. Y. Electric circuit for polarized compound electromagnet. 2,419,258; Apr. 22.
- Field, Oscar S., assignor to General Railway Signal Company, Rochester, N. Y. Light signal for railroads. 2,419,444; Apr. 22.
- Field, Oscar S., assignor to General Railway Signal Company, Rochester, N. Y. Plug coupling apparatus. 2,425,608; Aug. 12.
- Field, Oscar S., and R. W. Hewes, assignors to General Railway Signal Company, Rochester, N. Y. Electro-manual railroad switch lock and signal circuit control with emergency release. 2,416,986; Mar. 4.
- Field, Theodore E., assignor to Corhart Refractories Company, Louisville, Ky. Cast refractory products. 2,416,472; Feb. 25.
- Field, Theodore Estes, assignor to Corhart Refractories Company, Louisville, Ky. Alumina low silica refractory. 2,424,082; July 15.
- Field, William J.: *See*—Dahlne, Lawrence J., and Field. Gille, Willis H., Field, and Upton.
- Field, William J., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Amplifying system. 2,426,497; Aug. 26.
- Fielder, Bessie T., Towson, Md. Food cutter and peeler. 2,417,475; Mar. 18.
- Fields, Donald A., Youngstown, Ohio. Exterior pipe surface brushing machine. 2,427,129; Sept. 9.
- Fields, Ernest, New York, N. Y. Toy road system. 2,416,473; Feb. 25.
- Fields, George C., Wilmette, Ill., assignor to Solar Corporation, Milwaukee, Wis. Turbine type hydraulic coupling. 2,420,071; May 6.
- Fields, Reuben T.: *See*—Alfthan, Johannes, and Fields.
- Fields, Reuben T., Arlington, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cold drawing tapered filaments. 2,423,182; July 1.
- Fields, William T., Pittsburgh, and E. M. D. Herold, Duquesne, Pa. Apparatus for and method of cutting spiral grooves in grooved rolls. 2,416,296; Feb. 25.
- Fields, William T., Pittsburgh, and E. M. D. Herold, Duquesne, Pa. Apparatus for cutting spiral grooves in grooved rolls. 2,416,518; Feb. 25.
- Fields Point Manufacturing Corporation, assignee: *See*—Campanella, Joseph L.
- Fielitz, Frederick J., North Arlington, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Extrusion apparatus. 2,422,722; June 24.
- Fienhold, Harry J., Pontiac, Ill. Windrower attachment. 2,423,303; July 1.
- Fies, Milton H., Birmingham, Ala. Combined picking table and screen of the drag-conveyor type. 2,420,941; May 20.



- Fieser, Louis F., Belmont, Mass., assignor to Research Corporation, New York, N. Y. Substituted naphthoquinones and producing the same. 2,417,919; Mar. 25.
- Fife, Elmer E., Detroit, Mich. Pivoted-leg compass. 2,428,964; Oct. 14.
- Fife, Harvey R.: *See*—  
Roberts, Frederick H., and Fife.  
Toussaint, Walter J., and Fife.
- Filachione, Edward M., Philadelphia, and C. H. Fisher, Abington, Pa., assignors to United States of America as represented by the Secretary of Agriculture. Purification of lactic acid. 2,420,234; May 6.
- Filachione, Edward M., Philadelphia, and C. H. Fisher, Abington, Pa., assignors to United States of America, as represented by the Secretary of Agriculture. Manufacture of phenyl and substituted phenyl acrylated and their polymers. 2,423,089; July 1.
- Filachione, Edward M., Philadelphia, and C. H. Fisher, Abington, assignors to United States of America, as represented by Secretary of Agriculture. Phenyl and tolyl alpha-acetoxypropionate and their preparation. 2,425,523; Aug. 12.
- Filbert, Bryson M., Wooster, Tex., assignor to Standard Oil Development Company. Eliminating foaming in the recovery of sulphuric acid from an olefin recovery operation. 2,426,088; Aug. 19.
- Filbert, William F., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Blasting cap primer composition. 2,420,306; May 13.
- Filer & Stowell Co., The, assignee: *See*—  
Read, Everett C.
- Film Crafts Engineering Co., assignee: *See*—  
Dichter, Morris.
- Filstrup, Eddie C.: *See*—  
Erikson, Gustaf, and Filstrup.
- Filter Media Corporation, assignee: *See*—  
Teale, Harold A.
- Filtrol Corporation, assignee: *See*—  
Clark, Louis F.  
Doesken, Henry.  
Gary, Wright W.  
Gary, Wright W., and Secor.  
Rasor, John P.  
Secor, Robert B.
- Finch, Harry D.: *See*—  
Bergsteinsson, Ingolfur, and Finch.  
Morris, Rupert C., and Finch.
- Finch, Harry D., Berkeley, and S. A. Ballard, Oakland, assignors to Shell Development Company, San Francisco, Calif. Catalytic cleavage of glycols. 2,421,554; June 3.
- Finch, Harry D., Berkeley, Calif., and I. Bergsteinsson, Billings, Mont., assignors to Shell Development Company, San Francisco, Calif. Supported silver catalyst. 2,424,083; July 15.
- Finch, Harry D., Berkeley, Calif., and I. Bergsteinsson, Billings, Mont., assignors to Shell Development Company, San Francisco, Calif. Manufacture of olefin oxides. 2,424,084; July 15.
- Finch, James L., East Rockaway, and C. W. Hansell, Port Jefferson, N. Y., assignors to Radio Corporation of America. Rectifier. 2,431,383; Nov. 25.
- Finch Telecommunications, Inc., assignee: *See*—  
Brick, Frank R.  
Philpott, La Verne R.
- Finch, Tudor R., Jackson Heights, N. Y., and D. A. McLean, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave transmission network. 2,416,297; Feb. 25.
- Finch, Tudor R., Jackson Heights, N. Y., and D. A. McLean, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave transmission network. 2,416,683; Mar. 4.
- Finch, William G. H., Newtown, Conn. Recorder bar. 2,413,962; Jan. 7.
- Finch, William G. H., Newtown, Conn. High-speed facsimile synchronizing system. 2,416,573; Feb. 25.
- Finch, William G. H., Newtown, Conn. Color facsimile system. 2,422,778; June 24.
- Findlater, Stevenson, Pittsburgh, Pa., assignor to National Tube Company. Tapering metal tubes. 2,432,566; Dec. 16.
- Findley, Howard J., Shaker Heights, assignor to Eaton Manufacturing Company, Cleveland, Ohio. Thermoelectric generating device. 2,415,005; Jan. 28.
- Findley, Russell L., Detroit, Mich., and J. R. Wrathall, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Quick response control system for dynamometers. 2,417,745; Mar. 18.
- Fine, Clem, Braddyville, Iowa. Stock watering tank. 2,430,165; Nov. 4.
- Finger, Armin A., Bronx, assignor to Induction Heating Corp., New York, N. Y. Inductor for induction heating of objects of various sizes and shapes. 2,428,705; Oct. 7.
- Fink, Frank J., Chardon, assignor to The Parker Appliance Company, Cleveland, Ohio. Polygonal generating tool. 2,423,696; July 8.
- Fink, Henry A.: *See*—  
Keogh, Thomas P., and Fink.
- Fink, Henry A., Pelham Manor, assignor to Continental Can Company, Inc., New York, N. Y. Sheet metal container with vent opening. 2,425,609; Aug. 12.
- Fink, Henry A., Pelham Manor, assignor to Continental Can Company, Inc., New York, N. Y. Salvaging deep drawn containers. 2,432,740; Dec. 16.
- Fink, Herbert H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Snubber for resilient mounting. 2,415,280; Feb. 4.
- Fink, Raymond E., Foxon, Conn., assignor, by mesne assignments, to National Folding Box Company, Incorporated. Merchandise carton. 2,421,748; June 10.
- Fink, Raymond E., Easthaven, Conn., assignor, by mesne assignments, to National Folding Box Company, Incorporated. Display container with extensions. 2,426,865; Sept. 2.
- Fink, Rudolph: *See*—  
Samiran, David, and Fink.
- Fink, Rudolph, and G. V. Holloman, Fairfield, and C. L. Paulus, Dayton, Ohio. Controllable gliding attachment for bombs. 2,423,090; July 1.
- Finkelstein, Irving C., Brooklyn, N. Y. Automatic splitting machine. 2,429,310; Oct. 21.
- Finken, Walter S.: *See*—  
Frieder, Leonard P., and Finken.
- Finlay, Harry G.: *See*—  
Nelsen, John A., and Finlay.
- Finlayson, Frank E., Ontario, Calif., assignor to General Electric Company. Flatiron. 2,418,020; Mar. 25.
- Finley, Hugh P., Berlin, N. J., assignor to Owens-Illinois Glass Company. Mold rack. 2,425,610; Aug. 12.
- Finley, Virgil A., Long Beach, Calif. Hydraulic piston return stop. 2,417,476; Mar. 18.
- Finn, Thomas J., West Roxbury, Mass. Stapling machine. 2,417,817; Mar. 25.
- Finn, Thomas J., West Roxbury, Mass. Unwinder control mechanism. 2,417,818; Mar. 25.
- Finnegan, George B., Jr., Mountain Lakes, N. J., and H. N. Durham, Munsey Park, N. Y. Recording camera. 2,428,273; Sept. 30.
- Finnegan, William J., Jacksonville Beach, Fla. Apparatus for treatment of foods by dehydration or refrigeration comprising trucks and a treating enclosure. 2,422,536; June 17.
- Finnerty, Samuel B., San Francisco, assignor of one-half to H. King, Berkeley, Calif. Emery wheel dresser. 2,415,790; Feb. 11.
- Finney, John H. V., assignor to Mining Process and Patent Company, Denver, Colo. Diaphragm pump. 2,414,806; Jan. 28.
- Finney, John H. V., Jr., assignor to The Eimco Corporation, Salt Lake City, Utah. Belt type solid separator. 2,417,477; Mar. 18.
- Finzel, Herman, assignor to N. H., R., and G. Weil, Chicago, Ill., as trustees. Gear rolling machine. 2,423,932; July 15.
- Fiore, William, Brooklyn, N. Y., and C. A. Kotterman, Livingston, N. J., assignors to Federal Telephone and Radio Corporation. Contact rectifiers. 2,423,091; July 1.
- Fiorenza Castenzio, Elmhurst, N. Y. Detachable handle for utensils. 2,431,387; Nov. 25.
- Fire Apparatus Company, assignee: *See*—  
Howe, Lewis G., Smith, and Annis.
- Firestone, Floyd A., Ann Arbor, Mich. Keyboard for musical instruments. 2,417,639; Mar. 18.
- Firestone Tire and Rubber Company, The, assignee: *See*—  
Albert, Harry E., and Reid.  
Allen, Raymond W.  
Bosomworth, George P.  
Bosomworth, George P., and Hager.  
Bosomworth, George P., and Huffman.  
Bosomworth, George P., and Novotny.  
Brannock, Arlyss H.  
Brown, Roy W.  
Edgar, Kenneth L., and Gregg.  
Edgar, Kenneth L., Stavely, and Novotny.  
Greil, Herm H. G., and Richards.  
Kreyer, John G.  
Kuhn, Max O., and Sedlak.  
Novotny, Charles K.  
Rafter, John R.  
Sadon, Edwin J.  
Smith, George E. P., Jr.  
Smith, George E. P., Jr., and Carr.  
Stedman, Theodore W.
- Firma Eerhard-Aandewiel, assignee: *See*—  
Aandewiel, Cornelis J.
- First Bank and Trust Company, assignee, et al.: *See*—  
Graham, Warren C.
- First Industrial Corporation, assignee: *See*—  
Durbin, Vernon, and Knobel.  
Fetter, Norman C.  
Fry, Virgil H.  
Kaminky, Oscar H.  
Meyer, Edward P.  
Riche, Arthur L.
- First National Bank and Trust Company, executor: *See*—  
Flegel, Benjamin F.
- Firth, David, South Bend, assignor to Dodge Manufacturing Corporation, Mishawaka, Ind. Sheave. 2,413,817; Jan. 7.
- Fisch, Louis M., Los Angeles, Calif. Sport shirt with adjustable collar. 2,425,091; Aug. 5.



- Fischbach, Adolph, and M. Friedman, Asbury Park, N. J., assignors to the United States of America as represented by the Secretary of War. Ink. 2,426,194; Aug. 26.
- Fischbach, Cecil B., Akron, Ohio. Truck trailer chassis. 2,417,640; Mar. 18.
- Fischel, Lester, assignor to Patchogue-Plymouth Mills Corporation, New York, N. Y. Three-way curtain. 2,416,438; Feb. 25.
- Fischer, Albert W.: *See*—  
Kettering, Charles F., and Fischer.
- Fischer, Albert C., Chicago, Ill. Self-restoring water-stop and other waterproofing packings. 2,431,384; Nov. 25.
- Fischer, Albert C., Chicago, Ill. Porous body expansion joint. 2,431,385; Nov. 25.
- Fischer, Albert C., Chicago, Ill. Water-stop expansion joint. 2,431,386; Nov. 25.
- Fischer, Anthony J.: *See*—  
Contant, Peter M., Fischer, and Kivell.
- Fischer, Charles, New York, N. Y. Timer. 2,417,641; Mar. 18.
- Fischer, Eugene H., Derry, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Machine for coating insulators. 2,422,537; June 17.
- Fischer, Franz, Berlin-Wilmersdorf, Germany, vested in the Attorney General of the United States. Gyroscope control. 2,419,063; Apr. 15.
- Fischer, Henry C., Baltimore, Md. Piece of ordnance. 2,413,703; Jan. 7.
- Fischer, Herbert G. M., Westfield, N. J., assignor to Standard Oil Development Company. Weed killer. 2,414,640; Jan. 21.
- Fischer, Howard L., St. Paul, assignor of forty-nine per cent to G. Ulvick, Minneapolis, Minn. Fountain brush. 2,416,684; Mar. 4.
- Fischer, Kermit, Bridge Valley, Pa. Viscosimeter. 2,426,263; Aug. 26.
- Fischer, Kermit, Bridge Valley, assignor to Fischer and Porter Company, Hatboro, Pa. Viscosimeter. 2,426,393; Aug. 26.
- Fischer, Paul E., assignor to Standard-Knapp Corporation, Portland, Conn. Tray unloader. 2,431,320; Nov. 25.
- Fischer & Porter, assignee: *See*—  
Brewer, Nathaniel.
- Fischer & Porter Company, assignee: *See*—  
Brewer, Nathaniel.
- Fischer, Kermit.
- Pfeighar, George W.
- Fisher, Theodore, Midvale, N. J. Combination center punch. 2,420,365; May 13.
- Fish, Bernard, Brooklyn, C. E. Taylor, Harrison, N. Y., and J. C. Van Cleaf, Madison, N. J., assignors to Gaylord Container Corporation, St. Louis, Mo. Display cabinet. 2,430,166; Nov. 4.
- Fish, Harold J.: *See*—  
Mattias, Anthony J., and Fish.
- Fish-Schurman Corporation, assignee: *See*—  
Kott, Hermann, and Yawitz.
- Fisher, Albert T., Hartford, Conn. Closure fastener. 2,422,723; June 24.
- Fisher, Alec, Lynn, Mass., assignor to General Electric Company. Dynamo-electric machine. 2,428,621; Oct. 7.
- Fisher, Benjamin J., Jr., Schenectady, N. Y., assignor to General Electric Company. Follow-up control system. 2,432,302; Dec. 9.
- Fisher, Charles H.: *See*—  
Fein, Martin L., and Fisher.
- Filachione, Edward M., and Fisher.
- Rehberg, Chessie E., and Fisher.
- Fisher, Charles P., Boston, Mass., assignor to Sigma Instruments Incorporated. Sensitive relay. 2,425,092; Aug. 5.
- Fisher, Frank E.: *See*—  
Edson, Kenneth C., and Fisher.
- Fisher, George, Leeds, England. Collet chuck. 2,420,128; May 6.
- Fisher, Hardin Y.: *See*—  
Whitted, John B., and Fisher.
- Fisher, Harry C., Cincinnati, Ohio, assignor, by mesne assignments, to Consolidated Water Power & Paper Company, Wisconsin Rapids, Wis. Control of gloss in printing. 2,419,206; Apr. 22.
- Fisher, Harry C., Cincinnati, Ohio, assignor, by mesne assignments, to Consolidated Water Power & Paper Company, Wisconsin Rapids, Wis. Production of coated board and paper. 2,419,207; Apr. 22.
- Fisher, Herman G., assignor to Fisher-Price Toys, Inc., East Aurora, N. Y. Action toy. 2,424,607; July 29.
- Fisher, James W., Spondon, near Derby, assignor to British Celanese Limited, London, England. Production of cellulose derivatives. 2,423,883; July 15.
- Fisher, Jay, assignee, et al.: *See*—  
Bruen, George C.
- Fisher-Price Toys, Inc., assignee: *See*—  
Fisher, Herman G.
- Fisher, Reginald J., Leamington Spa, England. Two-cycle engine, crankcase compression, valve piston. 2,431,859; Dec. 2.
- Fisher, Robert P., Los Angeles, Calif. Swivel. 2,429,929; Oct. 28.
- Fisher, Roy R., Detroit, Mich. Electrical heating device. 2,433,750; Dec. 30.
- Fisher, Sidney T., Toronto, Ontario, Canada, assignor, by mesne assignments, to Hartford National Bank & Trust Company, Hartford, Conn., as trustee. Antenna system. 2,416,252; Feb. 18.
- Fisher, Theodore R., Brandon, Fla. Duplex indicating test prod. 2,418,872; Apr. 15.
- Fishko, Abraham, Brooklyn, N. Y. Apparatus for treatment of rectal disorders and the like. 2,427,953; Sept. 23.
- Fisk, Edwin M., assignor of one-half to J. H. Reid, S. A. Larsen, and R. E. Binkert, co-partners doing business as Reid Manufacturing Company, Los Angeles, Calif. Internal-combustion engine and attachment. 2,425,181; Aug. 5.
- Fisk, James B., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetron and control. 2,416,298; Feb. 25.
- Fiskaali, Otto A., Fitchburg, Mass. Fish lure. 2,427,267; Sept. 9.
- Fiske, Milan D., Schenectady, N. Y., assignor to General Electric Company. Ultra high frequency control system. 2,416,168; Feb. 18.
- Fiske, Milan D., Schenectady, N. Y., assignor to General Electric Company. Dielectric wave guide system. 2,422,189; June 17.
- Fiske, Milan D., Schenectady, N. Y., assignor to General Electric Company. Ultra high frequency coupling device and system. 2,422,190; June 17.
- Fiske, Milan D., and C. G. Suits, assignors to General Electric Company, Schenectady, N. Y. Ultra high frequency control system. 2,413,963; Jan. 7.
- Fisler, Royal E., Webster Groves, assignor to Orville W. Miller, Clayton, Mo. Handbag. 2,432,001; Dec. 2.
- Fisler, William O., Normandy, assignor to Skinner & Kennedy Stationery Co., St. Louis, Mo. Fan. 2,425,789; Aug. 19.
- Fistell, Joseph N., New York, N. Y. Folding holder for papers. 2,431,472; Nov. 25.
- Fitch, Clifford E., assignor to The Aero Equipment Corporation, Bryan, Ohio. Impact wrench. 2,425,427; Aug. 12.
- Fitch, Clyde J., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Apparatus for producing sharply defined signaling impulses. 2,421,606; June 3.
- Fitch, Ellery R., assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio. Fluid pressure control mechanism. 2,416,091; Feb. 18.
- Fitch, John, Bloomfield, assignor to Standard Container, Inc., Montclair, N. J. End construction for paper containers. 2,417,298; Mar. 11.
- Fitch, Raymond L., Pacific Palisades, Calif. Automatic magnetic inspection apparatus. 2,430,167; Nov. 4.
- Fitch, William A., Schenectady, N. Y., assignor to General Electric Company. Beam deflection control circuit. 2,414,939; Jan. 28.
- Fitch, William A., Schenectady, N. Y., assignor to General Electric Company. Pulse producing system. 2,423,304; July 1.
- Fitchie, Guy: *See*—  
Ammon, Charles D., Snyder, and Fitchie.
- Fite, John W., and P. M. French, Nashville, Tenn., assignors to Union Special Machine Company, Chicago, Ill. Sewing machine table board. 2,419,064; Apr. 15.
- Fitt, T. Cleon: *See*—  
Fleming, Edward P., and Fitt.
- Fitzgerald, Charles F., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Splitting machine. 2,433,038; Dec. 23.
- Fitzgerald, Edward B., Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Hydraulic control for electric motors. 2,426,006; Aug. 19.
- Fitzgerald, Edward B., assignor to Westinghouse Electric Corporation, Pittsburgh, Pa. Vehicle air conditioning system energized by braking resistors. 2,428,561; Oct. 7.
- Fitzgerald, James H., Westfield, N. J. Cable controlled boom bucket and closure. 2,419,129; Apr. 15.
- Fitzgerald, John C., Jackson, Calif. Burglarproof window catch. 2,415,166; Feb. 4.
- Fitzgerald, Walter H., Jr., Carrollton, Tex. Operation indicator for airplane engines. 2,426,089; Aug. 19.
- Fitzmorris, Stanley R., Schenectady, N. Y., assignor to General Electric Company. Electric discharge device of the gas filled type. 2,428,661; Oct. 7.
- Fitzpatrick, Benjamin, Miami, Fla. Foldable axle trailer. 2,431,388; Nov. 25.
- Fitzpatrick, Hugh P.: *See*—  
Frank, Edward J., and Fitzpatrick.
- Fitzpatrick, Jeremiah, assignor to Arnold Bros. Company, Weymouth, Mass. Last. 2,420,235; May 6.
- Fitzpatrick, Jeremiah, Weymouth, assignor to William J. Fitzpatrick, Abington, Mass. Display form for shoes. 2,423,445; July 8.
- Fitzpatrick, John T.: *See*—  
Fowler, George W., and Fitzpatrick.
- Fitzpatrick, W. L., Company, The, assignee: *See*—  
Wagner, Harold H., and Magnus.
- Fitzpatrick, William J., assignee: *See*—  
Fitzpatrick, Jeremiah.
- Flumodoro, Ali J., South Boston, assignor of one-half to J. Silin, Brookline, Mass. Flying machine. 2,428,794; Oct. 14.



- Fixter, Edward, St. Petersburg, Fla. Window screen hanger. 2,415,682; Feb. 11.
- Flaa, Leonard, Ishpeming, Mich. Tree trimming and pruning saw. 2,431,235; Nov. 18.
- Flacke, Theodore, East Hampton, Conn. Fireplace grate. 2,414,033; Jan. 7.
- Flader, Fredric E., Kenmore, F. Lakowitz, Tonawanda, and F. Steele, Kenmore, N. Y., assignors to Curtiss-Wright Corporation. Slat and flap control system. 2,422,296; June 17.
- Flageole, Burchard J., Chicago, Ill. Comb. 2,426,444; Aug. 26.
- Flaig, Max, North Scituate, R. I. Resiliently expandable multisectional metallic band. 2,433,657; Dec. 30.
- Flakice Corporation, assignee: *See*—  
Field, Crosby.  
Kaver, Francis M.
- Flame Cultivation, Incorporated, assignee: *See*—  
McLemore, Price C., and Knudsen.
- Flanders, John: *See*—  
Jones, Elwyn, and Flanders.
- Flanders, John S.: *See*—  
Payn, Russell C., Jones, and Flanders.
- Flanders, Ralph E., assignor to Jones & Lamson Manufacturing Company, Cleveland, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Coating fabrics. 2,431,745; Dec. 2.
- Flanigan, George W., Springfield, Vt. Work supporting and moving mechanism. 2,418,223; Apr. 1.
- Flaxman, Marcellus T.: *See*—  
Kollen, Myron H., and Flaxman.
- Fleche, Jean R., Youngstown, assignor to Republic Steel Corporation, Cleveland, Ohio. Method of progressively electric resistance butt welding longitudinal seam edges of a tubular blank and apparatus therefor. 2,417,594; Mar. 18.
- Fleck, Elmer E., Silver Spring, Md., assignor to the United States of America as represented by the Secretary of Agriculture. Drying rosin oil and producing same. 2,429,264; Oct. 21.
- Fleer, Harry H., assignor to Gem City Pattern Co., Quincy, Ill. Heater. 2,414,147; Jan. 14.
- Fleer, Harry H., assignor to Gem City Pattern Co., Quincy, Ill. Downdraft magazine heater. 2,422,959; June 24.
- Flegel, Benjamin F., deceased; First National Bank and Trust Company of Racine, executor, assignor to D. F. Flegel, Racine, Wis. Automatic electric time switch. 2,430,286; Nov. 4.
- Flegel, Dean F., assignee: *See*—  
Flegel, Benjamin F.
- Fleharty, Russell R., Muskegon Heights, Mich. Testing device. 2,418,254; Apr. 1.
- Fleischer, Fred E., assignor to Gulf Research & Development Company, Pittsburgh, Pa. Gear pumping mechanism. 2,416,987; Mar. 4.
- Fleischer, John, Van Dyke, Mich. Gun drill. 2,418,021; Mar. 25.
- Fleischer, Joseph, and J. G. Burtle, Alton, Ill., assignor to Olin Industries, Inc. Initiating explosives. 2,421,778; June 10.
- Fleischer, Paul, Cleveland Heights, assignor to Ultramet Mfg. Co., Cleveland, Ohio. Metal chair structure. 2,426,676; Sept. 2.
- Fleischmann, George A., assignor to Chain Belt Company, Milwaukee, Wis. Chute actuating mechanism for concrete mixers. 2,425,674; Aug. 12.
- Fleischner, Richard P., Scarsdale, N. Y. Wrist watch attachment. 2,421,253; May 27.
- Fleisher, Harry, Greenbelt, Md. Chemical indicator. 2,416,619; Feb. 25.
- Fleisher, Walter L., New City, N. Y. Apparatus for humidifying and cleaning gaseous fluids such as air. 2,429,265; Oct. 21.
- Fleisher, Walter L., New City, N. Y. Apparatus for humidifying and cleaning gaseous fluids such as air. 2,431,389; Nov. 25.
- Fleiss, Victor P., New York, N. Y. Motive power and driving means for rotating propeller of helicopters. 2,415,584; Feb. 11.
- Fleming, Charles L., Jr.: *See*—  
McNab, John G., and Fleming.
- Fleming, Charles L., Jr., Roselle Park, and J. G. McNab, Cranford, N. J., assignors to Standard Oil Development Company. Preparing a metallic phenolate salt of a hydroxyaryalkylamine product. 2,414,729; Jan. 21.
- Fleming, Earl W., Chicago, Ill. Ratiometer. 2,428,209; Sept. 30.
- Fleming, Edward P., Los Angeles, Calif., and T. C. Fitt, Salt Lake City, Utah, assignors to American Smelting and Refining Company, New York, N. Y. Production of sulphur from gaseous mixtures. 2,431,236; Nov. 18.
- Fleming, James H., and J. T. Sisk, Elberton, Ga. Clamping tool for flooring. 2,427,268; Sept. 9.
- Fleming, Samuel W. C., Strathaven, Scotland. Vertical steam boiler. 2,414,148; Jan. 14.
- Fleming, William E., Cedar Rapids, Iowa. Device for sharpening cutlery. 2,425,369; Aug. 12.
- Flemming, Cecil D.: *See*—  
Sudholz, Louis H., and Flemming.
- Flenner, Albert L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of organic mercury phenolates. 2,430,287; Nov. 4.
- Flenner, Albert L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydrophobic insecticidal. 2,430,288; Nov. 4.
- Flenner, Albert L., and R. A. Kaberg, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. 2,4-dinitrophenyl thiocyanate as a fungicide. 2,433,106; Dec. 23.
- Flesch, Norman, assignor to American Steel Foundries, Chicago, Ill. Brake head balancing device. 2,418,022; Mar. 25.
- Flesch, Norman, assignor to American Steel Foundries, Chicago, Ill. Brake. 2,422,004; June 10.
- Fletcher, David A., Pompton Plains, N. J., and F. L. Johnston, Claymont, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerization of methyl methacrylate. 2,418,828; Apr. 15.
- Fletcher, Ed, Newark, Ohio, and H. Snow, Lonsdale, R. I. Apparatus for attenuating thermoplastic materials. 2,418,873; Apr. 15.
- Fletcher, Fred W.: *See*—  
Dreisbach, Robert R., and Fletcher.
- Fletcher, Fred W., and E. Kenaga, assignors to The Dow Chemical Company, Midland, Mich. Fumigant mixtures of ethylene bromide and methylene chloride. 2,425,238; Aug. 5.
- Fletcher, George W., San Francisco, Calif. Folding vehicle wheel. 2,419,445; Apr. 22.
- Fletcher, Harry H., Nutley, N. J., assignor to United States Rubber Company, New York, N. Y. Manufacture of chlorinated quinoxalones. 2,422,089; June 10.
- Fletcher, Harry H., Nutley, N. J., assignor to United States Rubber Company, New York, N. Y. Manufacture of chlorinated quinoxalones. 2,422,229; June 17.
- Fletcher, Herbert, Slough, England. Radio navigational system. 2,423,305; July 1.
- Fletcher, Herbert J.: *See*—  
Hunter, Melvin J., Fletcher, and Currie.
- Fletcher, James, Akron, Ohio, assignor to The Babcock & Wilcox Company, Rockleigh, N. J. Fluid fuel burner apparatus. 2,414,459; Jan. 21.
- Fletcher, James, Akron, Ohio, assignor to The Babcock & Wilcox Company, Newark, N. J. Atomizer. 2,416,685; Mar. 4.
- Fletcher, Joseph H., South Gate, Calif. Left foot accelerator pedal for automobiles. 2,430,561; Nov. 11.
- Fletcher, Lawrence D., assignor of one-half to W. N. Calhoun, Lansing, Mich. Ice cream dispensing cabinet. 2,418,113; Apr. 1.
- Fletcher, Paul E., Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Slot insulation. 2,417,746; Mar. 18.
- Fletcher, Roland A., San Diego, Calif. Bed switch. 2,425,790; Aug. 19.
- Fletcher Trust Company, assignee: *See*—  
Starkey, William C.
- Fletcher, Wendell S., South Pasadena, Calif. Clamping device. 2,425,033; Aug. 5.
- Fletcher, William A., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Valve. 2,413,757; Jan. 7.
- Flett, Lawrence H.: *See*—  
Sievenpiper, Frederic, and Flett.
- Flcury, Andrew J., High River, Alberta, Canada. Hobby-horse. 2,422,347; June 17.
- Flcury, Jack E.: *See*—  
Dillman, Earnest J., and Flcury.
- Flexible Vacuum Container Corporation, The, assignee: *See*—  
Berch, Samuel H.
- Flexograph, Inc., assignee: *See*—  
MacDonald, Richard A.
- Flex-O-Tube Company, assignee: *See*—  
Coss, George R.  
Milton, Thomas W.
- Flexser, Leo A., Elizabeth, assignor to Hoffmann-La Roche, Inc., Roche Park, Nutley, N. J. Catalytic hydrogenation of sugars. 2,421,416; June 3.
- Fligel, Eleanor, New York, N. Y. Garment. 2,422,779; June 24.
- Flink, John H., Watertown, Mass., assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for applying coating material to a series of objects. 2,417,920; Mar. 25.
- Flint, Edward F., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Median value device in a sighting instrument. 2,422,348; June 17.
- Flint, Edward F., Brighton, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Timing device. 2,428,662; Oct. 7.
- Flint, Edward F., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Evanescent recording device permitting median determination. 2,432,874; Dec. 16.
- Flint, Edward F., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Level indicating device. 2,432,875; Dec. 16.
- Flint, Eric B., assignor to Kerlow Steel Flooring Company, Jersey City, N. J. Grating. 2,429,677; Oct. 28.
- Flint & Walling Manufacturing Co., Inc., assignee: *See*—  
Lung, Kenneth R.
- Flippen, Leroy R., Clearfield, and F. L. Hennefer, Kaysville, Utah. Battery charger with reversible feature. 2,423,646; July 8.



- Flitter, David: *See*—  
 Pichard, John, and Flitter.
- Flitton, Bruce C., Long Beach, Calif. Air navigation computer. 2,423,764; July 8.
- Flock, Bernard J., and C. G. Gerhold, assignors to Universal Oil Products Company, Chicago, Ill. Controlling the flow of fluidized solids and liquids. 2,420,129; May 6.
- Flogaus, Howard A., Wallingford, Pa., assignor to A C F-Brill Motors Company, New York, N. Y. Seating arrangement for passenger vehicles. 2,414,730; Jan. 21.
- Flogaus, Howard A., Wallingford, and L. E. Vogt, Lansdowne, Pa., assignors to ACF-Brill Motors Company, New York, N. Y. Duct for directing cooling air to a motor vehicle engine. 2,418,294; Apr. 1.
- Flom, Russell C.: *See*—  
 Grabner, Winfred H., and Flom.
- Flood, Edmund L., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Saw blade lubricant. 2,419,713; Apr. 29.
- Flood, Reginald F. J., and R. C. Vine, assignors to Amalgamated Wireless (Australasia) Limited, Sydney, New South Wales, Australia. Variable inductance. 2,415,736; Feb. 11.
- Flora, Laurence H., and C. A. Kelley, assignors to Tinnerman Products, Inc., Cleveland, Ohio. Fastening device. 2,430,809; Nov. 11.
- Floraday, Burton S., Toledo, Ohio, assignor to Marvel Equipment Corporation, Detroit, Mich. Guide means for vehicle windows. 2,429,156; Oct. 14.
- Florence Pipe-Foundry & Machine Company, assignee: *See*—  
 Camerota, Louis A.
- Florence, Robert T.: *See*—  
 Bernardi, Dominic J., and Florence.
- Florence Stove Company, assignee: *See*—  
 Reeves, Herbert M.
- Reeves, Herbert M., and Vixler.  
 Capell, Robert G., and Amero.  
 Hartshorne, Frank W. K.  
 Schneider, Frank H.
- Florman, Irving, New York, N. Y. Cigarette lighter or the like. 2,418,295; Apr. 1.
- Florman, Irving, New York, N. Y. Lighter. 2,419,889; Apr. 29.
- Flory, Leslie E.: *See*—  
 Morton, George A., and Flory.
- Florschutz, Fritz E.: *See*—  
 Horn, Merl E., Lindstrom, and Florschutz.
- Flory, Paul J.: *See*—  
 Rehner, John, Jr., and Flory.
- Flory, Ray Eugene, Eaton, Ohio. Serving tray. 2,430,049; Nov. 4.
- Flosdorf, Earl W., Lansdowne, and F. J. Stokes, Jr., Laverock, Pa., assignors, by mesne assignments, to Tabor-Olney Corporation. Process and apparatus for the drying of liquid-containing biological materials by freezing and sublimating under low pressure in the presence of a chemical desiccant. 2,414,940; Jan. 28.
- Flosi, Florio G., assignee: *See*—  
 Weiner, Harry.
- Flouders, Frank R., Jenkintown, assignor of one-third to William Steell Jackson and Son, Philadelphia, Pa. Fuel economizer. 2,431,659; Nov. 25.
- Flowers, Alan E., and A. E. Merget, Poughkeepsie, assignors to The De Laval Separator Company, New York, N. Y. Making cheese. 2,415,239; Feb. 4.
- Flowers, Alan E., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Centrifuge for separating liquids from gases and heavy impurities. 2,417,747; Mar. 18.
- Flowers, Paul E., Mount Gilead, Ohio, assignor to The Hydraulic Development Corp., Inc., Wilmington, Del. Clamp for stretching presses. 2,417,478; Mar. 18.
- Flowers, Ralph G.: *See*—  
 Miller, Harry F., and Flowers.
- Floyd, George P., assignor to Floyd Research and Development Co., Akron, Ohio. Ringless self-expanding piston. 2,419,714; Apr. 29.
- Floyd, J. F. R., Baltimore, assignor to The Glenn L. Martin Company, Middle River, Md. Shielded thermocouple for use in high velocity fluid streams. 2,414,370; Jan. 14.
- Floyd Research and Development Co., assignee: *See*—  
 Floyd, George P.
- Flude, John W., Houston, Tex. Apparatus for making geophysical surveys under water. 2,423,591; July 8.
- Fluid Control Engineering Co., assignee: *See*—  
 Annin, Douglas H.
- Flumerfelt, William A.: *See*—  
 Klages, Reynold E., and Flumerfelt.
- Flurscheim, Cedric H., Bowdon, England, assignor to Metropolitan-Vickers Electrical Company Limited. Electric circuit breaker. 2,419,446; Apr. 22.
- Flury, Placido, Novara, Italy; vested in the Attorney General of the United States. Device for the speed regulation of electric commutator machines. 2,422,614; June 17.
- Fly Ash Arrestor Corporation, assignee: *See*—  
 Bullock, Ellis W.
- Flygare, Carl G., and C. C. Alvord, assignors to Norton Company, Worcester, Mass. Grinding wheel spindle reciprocating mechanism. 2,419,130; Apr. 15.
- Flynn, Andrew J., Jr., Lafayette, Calif. Gocart receptacle. 2,419,680; Apr. 29.
- Flynn, Edward S., Hastings-on-Hudson, assignor to Anacanda Wire & Cable Company, New York, N. Y. Electrical oil. 2,425,791; Aug. 19.
- Flynn, John H.: *See*—  
 Ensign, William B., and Flynn.
- Flynn, John H., and W. B. Ensign, New Rochelle, assignors to Ensign Ribbon Burners, Inc., Mount Vernon, N. Y. Needle flame dual control burner. 2,428,274; Sept. 30.
- Flynn, William N., Hamden, assignor to The Seamless Rubber Company, New Haven, Conn. Temperature control means for hollow rolls. 2,431,473; Nov. 25.
- Foard, Robert F., Los Angeles, Calif. Screen printing on cloth. Re. 22,835; Jan. 28.
- Focke, Arthur E., and G. G. Mize, assignors to Diamond Chain and Manufacturing Company, Indianapolis, Ind. Chain. 2,424,087; July 15.
- Fockler, Theodore C.: *See*—  
 Johns, Francis J., and Fockler.
- Foerster, Charles V.: *See*—  
 Cape, Arthur T., and Foerster.
- Fogel, Jack L., assignor, by mesne assignments, to Manhattan Scallop and Embroidery Works, Inc., New York, N. Y. Embroidering machine. 2,423,092; July 1.
- Fogg, Charles E.: *See*—  
 Bachman, Benjamin B., and Fogg.
- Fogg, Robert E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Blasting explosive assembly. 2,415,422; Feb. 11.
- Fogleman, Clayton A., and H. G. Whittington, High Point, N. C. Wrap stripe stop motion. 2,430,633; Nov. 11.
- Folb, Henry, Brooklyn, N. Y. Strapless brassiere. 2,414,590; Jan. 21.
- Folberth, William M., Cleveland, and P. Parmelee, Cuyahoga Falls, Ohio; said Parmelee assignor to said Folberth. Archery bow. 2,423,765; July 8.
- Folco, Angelo V., Turin, Italy; vested in the Alien Property Custodian. Treatment of glass-covered electric conductors. 2,415,683; Feb. 11.
- Foley, Daniel E., Evanston, and W. D. Johnson, Chicago, Ill., assignors to American Telephone and Telegraph Company. Testing system for non-typing selectors. 2,418,401; Apr. 1.
- Foley, Joseph J., Lincoln Park, Mich. Time-delay electric switch. 2,429,457; Oct. 21.
- Folk, Joseph, assignor to U. S. Slicing Machine Company, La Porte, Ind. Detachable substance support for reciprocating carriage type slicing machines. 2,431,390; Nov. 25.
- Folk, Joseph, assignor to U. S. Slicing Machine Company, La Porte, Ind. Meat carriage drive for slicing machines. 2,431,391; Nov. 25.
- Folke, Bengt E., Mamaroneck, and R. H. Shepard, assignors to Nathan Manufacturing Company, New York, N. Y. Hydraulic pump. 2,430,394; Nov. 4.
- Folkers, Fannie M., assignee: *See*—  
 Shelley, Lewis A.
- Folkins, Hillis O., Skokie, assignor to The Pure Oil Company, Chicago, Ill. Cracking hydrocarbons in the presence of the halogen, bromine, and iodine, and a chlorinated unsaturated aliphatic organic compound. 2,417,105; Mar. 11.
- Folkins, Hillis O., Skokie, assignor to The Pure Oil Company, Chicago, Ill. Hydrocarbon conversion. 2,423,493; July 8.
- Folkins, Hillis O., Skokie, and C. M. Thacker, Highland Park, assignors to The Pure Oil Company, Chicago, Ill. Conversion of hydrocarbons. 2,415,477; Feb. 11.
- Folkins, Hillis O., Skokie, and C. M. Thacker, Highland Park, assignors to The Pure Oil Company, Chicago, Ill. Conversion of hydrocarbons in presence of carbon tetrachloride and the halides, bromine and iodine. 2,416,660; Feb. 25.
- Folkins, Hillis O., Skokie, and C. M. Thacker, Highland Park, assignors to The Pure Oil Company, Chicago, Ill. Cracking of hydrocarbons in the presence of halogen-containing sensitizers. 2,423,494; July 8.
- Folland, Donald F.: *See*—  
 Jenks, Frederic A., and Folland.
- Folland, Donald F., East Hempstead, J. O. Schock, Garden City, and F. A. Jenks, Rockville Centre, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Glide path transmitter. 2,426,992; Sept. 9.
- Folt, Vernon L., and F. W. Shaver, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Polymerization catalysts. 2,419,347; Apr. 22.
- Foltz, Harold H., assignor to The Arco Company, Cleveland, Ohio. Dispensing apparatus. 2,423,969; July 15.
- Fonda, Gorton R., Schenectady, N. Y., assignor to General Electric Company. Discriminative alkali halide screen. 2,416,574; Feb. 25.
- Fonda, Gorton R., Schenectady, N. Y., assignor to General Electric Company. Cathode ray screen having contrasting colors and unlike rates of decay of luminescence. 2,423,830; July 15.
- Fonda, Harold H.: *See*—  
 Schulz, Gustav E., and Fonda.



- Fonos, Peter J., San Diego, Calif. Dispersing fog over landing fields. 2,426,822; Sept. 2.
- Fontaine, Robert A., Martinsville, Va. Brick grab. 2,416,575; Feb. 25.
- Fontenot, Remie E., and R. H. Dooley, assignors of one-third to A. P. Steckler, Ville Platte, La. Mud mixer. 2,425,524; Aug. 12.
- Food Machinery Corporation, assignee: *See*—  
Cleveland, James A.  
Coons, Burton C.  
Fox, Richard D.  
Gerwe, Ray D., and Slade.  
Kalmar, Arthur F.  
Kelly, Walter W.  
Kerr, Charles E.  
Krueger, Frank W.  
Mumma, Harold J.  
Peterson, Robert E.  
Stockdale, Harry C.  
Verrinder, Ernest A.  
Wade, John B.
- Food, Stanley G.: *See*—  
New, Archibald A., Food, and Beckwith.
- Foot, Alton G.: *See*—  
Fulton, John W., and Foote.
- Foote, Alton G., Wickliffe, Ohio, assignor to General Electric Company. Electric lamp. 2,419,395; Apr. 22.
- Foote Bros. Gear and Machine Corporation, assignee: *See*—  
Anderson, Rexford O., and Walsh.  
Mackman, Arthur, and Walsh.
- Foote, Leonard, Palo Alto, Calif. Differential hoist. 2,420,072; May 6.
- Foote, Paul C.: *See*—  
Stechbart, Bruno, and Foote.
- Footmobile Corporation, assignee: *See*—  
Vincent, Arnold.
- Forbes, Arthur L., Jr., Houston, Tex. Grinding attachment for grinding the end face of pipes. 2,414,731; Jan. 21.
- Forbes, Arthur L., Jr., Houston, Tex. Pipe end shaper. 2,429,052; Oct. 14.
- Forbes, Arthur L., Jr., assignor to Pressure Weld Company, Houston, Tex. Internal alignment fixture and welding. 2,429,053; Oct. 14.
- Forbes, Charles F.: *See*—  
Forbes, Frederick H. and C. F.
- Forbes, Duncan D., New York, N. Y., assignor to Electro Manganese Corporation, Knoxville, Tenn. Bus bar connector. 2,433,209; Dec. 23.
- Forbes, Frederick H., Pasadena, and C. F. Forbes, Los Angeles, Calif. Caster locking attachment. 2,422,892; June 24.
- Forbes, Gordon B., Salt Lake City, Utah, assignor to American Smelting and Refining Company, New York, N. Y. Machine for automatically punching converter tuyeres. 2,425,792; Aug. 19.
- Forbes, Gordon D., Sudbury, and H. Shapiro, Cambridge, Mass., assignors, by mesne assignments, to United States of America, as represented by the Secretary of War. Transmission line. 2,423,306; July 1.
- Forbes, Joseph A., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Tractor-trailer brake system. 2,413,818; Jan. 7.
- Ford, Albert C.: *See*—  
Luben, Raymond R., and Ford.
- Ford, Frank J., Worcester, assignor of one-third to H. Whitaker, Oxford, and one-third to M. B. Striar, Worcester, Mass. Knitting machine. 2,413,819; Jan. 7.
- Ford, Frank R., Sparkbrook, Birmingham, England. Duplicating machine. 2,418,341; Apr. 1.
- Ford, Frank R., Sparkbrook, Birmingham, England. Moistening device for duplicating machines. 2,424,534; July 22.
- Ford, Hannibal C., Great Neck, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Level gyro. 2,427,130; Sept. 9.
- Ford, Ian A. M.: *See*—  
Parkes, Deric W., and Ford.
- Ford Instrument Company, Inc., assignee: *See*—  
Crooke, Raymond E.  
Crooke, Raymond E., and Constantinides.  
Crowther, George A.  
Essex, Alois.  
Ford, Hannibal C.  
Newell, William H.  
Poitras, Edward J., and Tear.  
Ross, Elliott P.  
Ross, Elliott P., and Marsh.  
Willard, Waldo W.  
Willard, Waldo W., and Crooke.
- Ford, Jay T.: *See*—  
Bychinsky, Wilfred A., Ford, and Kirk.
- Ford, John W., Silver Spring, Md. Flameproof screen for use in air conditioning conduits. 2,417,408; Mar. 18.
- Ford, Karl L.: *See*—  
Zademach, Erich R., Clarke, and Ford.
- Ford, Martin J., Scranton, Pa. Cap frame. 2,418,764; Apr. 8.
- Ford Meter Box Company, assignee: *See*—  
Hargett, Albert E.
- Ford Motor Company, assignee: *See*—  
Beems, Floyd E., and Scott.  
Gregorie, Eugene T., and Regitko.  
Groven, Fredrick, and Pioch.  
Miller, Logan C., and Scarlett.  
Pinardi, Charles P., and Brock.  
Rivard, Lawrence B., and Jensen.  
Rivard, Lawrence B., and Kroepel.  
Stephenson, Thomas W., and Schumaker.  
Wharam, John J., and Jovanovich.
- Ford, Reginald C., Allesley, near Coventry, England. Folding pushcar or wheeled chair. 2,415,629; Feb. 11.
- Ford, Reginald C., Allesley, near Coventry, England. Folding pushcar or wheeled chair. 2,427,205; Sept. 9.
- Ford, Thomas A.: *See*—  
Coffman, Donald D., and Ford.
- Ford, Thomas A., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Carboxylation of isoolefins. 2,419,131; Apr. 15.
- Ford, Thomas A., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of ethyl, alpha, alpha-dimethyl butyrate. 2,424,653; July 29.
- Ford, William C., Andover, Mass. Amusement device. 2,424,354; July 22.
- Foreman, Gerald E., U. S. Navy. Signal snap hook. 2,419,947; May 6.
- Foresman, Seth T., Royal Oak, assignor to Chrysler Corporation, Highland Park, Mich. Method and apparatus for balancing fluid couplings. 2,429,930; Oct. 28.
- Forest Machinery Company, Inc., The, assignee: *See*—  
Milward, John H.
- Forgar, Albert H., Los Angeles, Calif. Glass press mold turning device. 2,416,743; Mar. 4.
- Forker, Major T., Jr., assignor to The Balmar Corporation, Baltimore, Md. Locomotive power reverse gear mechanism. 2,428,069; Sept. 20.
- Forkner, Jesse C., and J. H., Fresno, Calif. Coconut method. 2,422,893; June 24.
- Forkner, John H.: *See*—  
Forkner, Jesse C. and J. H.
- Form Fashion, Inc., assignee: *See*—  
Sholder, Morris.
- Forman, Benjamin G., Brooklyn, N. Y. Nonconductive fastener. 2,432,986; Dec. 23.
- Forman, Paul, Bronx, assignor to Dial Light Co. of America, Inc., New York, N. Y. Gaseous conduction lamp socket. 2,421,321; May 27.
- Forman, Sylvan E., Baltimore, Md., assignor to U. S. Industrial Chemicals, Inc., New York, N. Y. Preparation of 5-diethylamino-2-pentanone. 2,419,259; Apr. 22.
- Formhals, William H.: *See*—  
King, George E., and Formhals.
- Formhals, William H., Forest Hills, and G. E. King, Swissvale, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system. 2,414,516; Jan. 21.
- Formhals, William H., Forest Hills, Pa., and S. H. Hanville, Jr., Huron, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. "Rectox" motor control system. 2,420,873; May 20.
- Formhals, William H., Pittsburgh, and F. C. Fennell, Greensburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system. 2,432,876; Dec. 16.
- Forney, Harold R., Surprise, Nebr. Trailer hitch. 2,415,478; Feb. 10.
- Forney, Harold R., Surprise, Nebr. Draft hitch. 2,415,479; Feb. 11.
- Forrest, Mark L., Leavenworth, Wash. Quick-detachable head, guard, and helper's handle for chain saws. 2,432,567; Dec. 16.
- Forsland, Audre C., Virginia, Minn. Combination collar pin. 2,425,872; Aug. 19.
- Forslind, Erik: *See*—  
Persson, Bengt O. E., and Forslind.
- Forslund, Carl G., Norwalk, Conn. Cemented shoe and making same. 2,428,210; Sept. 30.
- Forssberg, Carl F. W., Brooklyn, N. Y. Wind instrument. Re. 22,949; Dec. 16.
- Forssell, Adam E., Seattle, Wash. Dual accelerator control. 2,427,269; Sept. 9.
- Forssell, Adam E., Seattle, Wash. Automatic backup light. 2,430,118; Nov. 4.
- Forster, Warren S.: *See*—  
Lecher, Hans Z., Scalera, and Forster.
- Forstner Chain Corporation, assignee: *See*—  
Forstner, William.
- Forstner, William, Irvington, N. J., assignor to Forstner Chain Corporation. Wrist watch band. 2,431,392; Nov. 25.
- Forsyth, Archibald G., Cheam, assignor to The Fairey Aviation Company Limited, Hayes, Middlesex, England. Governor for variable pitch propeller systems. 2,421,873; June 10.
- Forsyth, Archibald G., Cheam, assignor to The Fairey Aviation Company Limited, Hayes, England. Turbine type jet propulsion. 2,423,183; July 1.
- Forsyth, Archibald G., Cheam, assignor to The Fairey Aviation Company Limited, Hayes, England. Variable pitch propeller arrangement. 2,426,007; Aug. 19.
- Forsyth, Archibald G., Cheam, assignor to The Fairey Aviation Company Limited, Hayes, England. Power unit for aircraft and the like. 2,426,008; Aug. 19.



- Forsyth, Archibald G., Cheam, assignor to The Fairey Aviation Company Limited, Hayes, Middlesex, England. Periodically actuated jet motor. 2,427,845; Sept. 23.
- Forsyth, Archibald G., Cheam, assignor to The Fairey Aviation Company Limited, Hayes, England. Power unit. 2,427,846; Sept. 23.
- Forsyth, Archibald G., Cheam, assignor to The Fairey Aviation Company Limited, Hayes, Middlesex, England. Power plant for helicopters. 2,433,107; Dec. 23.
- Fort, Dorathea L.: *See*—  
Harmon, Cline H., and Fort.
- Fort, James M., assignor to Twentieth Century-Fox Film Corporation, Los Angeles, Calif. Preventing film scratching in motion-picture apparatus. 2,427,773; Sept. 23.
- Fort Howard Paper Company, assignee: *See*—  
Agamaite, Edward, Jr.
- Fortin, Omer J., Laconia, N. H. Hammer. 2,427,399; Sept. 16.
- Fortner, Marion D., Chicago, Ill. Coat hanger. 2,413,914; Jan. 7.
- Fort Wayne Wire Die Company, assignee: *See*—  
Borne, Noah.
- Fosler, David W., Indianapolis, Ind. Ampule cutter. 2,425,093; Aug. 5.
- Fosnot, Louis P., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Impact wrench. 2,425,793; Aug. 19.
- Foss, George H., Hamilton, Mass. Apparatus for jacking up and lowering motor vehicle wheels. 2,420,130; May 6.
- Fossa, Joseph, Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Making shoes and laced uppers employed therein. 2,418,168; Apr. 1.
- Foster, Alden E., Glendale, assignor to one-half to Aaron H. Shum, Los Angeles, Calif. Head space gauge. 2,433,108; Dec. 23.
- Foster, Arch L., Tulsa, Okla., assignor to Phillips Petroleum Company. Combination cracking and destructive hydrogenation of hydrocarbons. 2,415,998; Feb. 18.
- Foster, Arch L., Bartlesville, Okla., assignor to Phillips Petroleum Company. Regeneration of spent catalyst. 2,416,049; Feb. 18.
- Foster, Arch L., Bartlesville, Okla., assignor to Phillips Petroleum Company. Preparation of a porous aluminum chloride catalyst. 2,428,910; Oct. 14.
- Foster, Boutwell H., Maplewood, and H. E. Sunbury, Rutherford, N. J., assignors to United States Rubber Company, New York, N. Y. Dish towel. 2,413,964; Jan. 7.
- Foster, Dudley E., Chicago, Ill., assignor to Radio Corporation of America. Modulation limiter. 2,430,978; Nov. 18.
- Foster, Edwin E., Austin, Tex. Welding rheostat. 2,431,689; Dec. 2.
- Foster, Harry C., Alton, Ill. Film splices. 2,433,446; Dec. 30.
- Foster, Hebern B., Lubbock, Tex. Cotton picker's sack carrier. 2,421,779; June 10.
- Foster, Henry D.: *See*—  
Hollowell, Alban T., Foster and Larchar.
- Foster, Henry D., Wilmington, Del., and A. W. Larchar, Mendenhall, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Granular N-substituted polyamides. 2,430,866; Nov. 18.
- Foster, Henry D., Wilmington, Del., and A. W. Larchar, Mendenhall, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Granular N-substituted polyamides. 2,430,867; Nov. 18.
- Foster, Henry D., Wilmington, Del., and A. W. Larchar, Mendenhall, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. N-alkoxymethyl polyamides and obtaining same. 2,430,923; Nov. 18.
- Foster, Jackson W., Rahway, and H. B. Woodruff, Princeton, assignors to Merck & Co., Inc., Rahway, N. J. Production of streptothricin. 2,422,230; June 17.
- Foster, John, London W. C. 2, assignor to Standard Telephones and Cables Limited, London, England. Electron discharge tube. 2,419,544; Apr. 29.
- Foster, Karl M., assignor of one-half to F. A. Pearson, Great Barrington, Mass. Projectile. 2,414,863; Jan. 28.
- Foster, Leon V.: *See*—  
Benford, James R., and Foster.
- Foster, Levin W.: *See*—  
Miller, Harry F., and Foster.
- Foster Machine Company, assignee: *See*—  
Campbell, Lester.
- Foster, Newton C.: *See*—  
Hill, Charles F., and Foster.
- Foster, Warren D.: *See*—  
McKay, Herbert C., Martinek, and Foster.
- Foster Wheeler Corporation, assignee: *See*—  
Blizard, John.  
Dean, Dion K.  
Hirsch, Joel H.  
VanDornick, Edward M.
- Foster, William J., Ridgefield Park, N. J. Clothespin bag. 2,430,763; Nov. 11.
- Foster, William J., Flint, assignor to General Motors Corporation, Detroit, Mich. Air flow control for crankcase ventilation. 2,423,592; July 8.
- Foster, William P., Jersey City, N. J., assignor to General Cable Corporation, New York, N. Y. Method of and apparatus for preparing photographic overlay chart. 2,425,929; Aug. 19.
- Fotie, Joseph A., Kansas City, Mo. Mat welding device. 2,422,829; June 24.
- Fotie, Joseph A., Kansas City, Mo. Welding assembly. 2,433,354; Dec. 30.
- Fouch, James L., Inglewood, Calif. Pivotal supporting means. 2,414,034; Jan. 7.
- Fouhy, Michael A., Brooklyn, N. Y. Erecting large span buildings. 2,415,240; Feb. 4.
- Foulds, Andrew K., Grosse Pointe, assignor to Detroit Lubricator Company, Detroit, Mich. Valve and switch unit. 2,428,751; Oct. 7.
- Foulds, Robinson P., and J. T. Marsh, assignors to Tootal Broadhurst Lee Company Limited, Manchester, England. Delustring and weighting textile materials. 2,416,988; Mar. 4.
- Foulger, Frank, New Cross, London, England. Expansion joint structure. 2,428,562; Oct. 7.
- Foulke, Ted E., Mayfield Village, Ohio, assignor to General Electric Company. Electric discharge device and circuit therefor. 2,420,942; May 20.
- Foulkes, Christopher H.: *See*—  
Goodchild, Frank D., and Foulkes.
- Foundry Equipment Company, The, assignee: *See*—  
Barnett, Charles A., and Beyvl.  
Lynch, Charles B.
- Fountain, Lawrence L., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Ground detector for electric power distribution systems. 2,428,563; Oct. 7.
- Fountain, William M., Palo Alto, and H. Pierce, Saratoga, Calif. Marine type non-metallic bearing. 2,416,519; Feb. 25.
- Fouron, Pierre, Paris, France. Chill mould for casting cylinder heads of air-cooled engines. 2,433,109; Dec. 23.
- Fouse, Frederick Z.: *See*—  
McNamara, William L., and Fouse.
- Fouse, Frederick Z., assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio. Discharge table. 2,421,874; June 10.
- Fowle, Edward F.: *See*—  
Pruitt, Rodman C., Fowle, and Iglehart.
- Fowle, John M., Piedmont, and H. E. Kennedy, Berkeley, Calif., assignors to The Linde Air Products Company. Producing contours in material. 2,430,924; Nov. 18.
- Fowler, George W., and J. T. Fitzpatrick, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Production of allyl alcohol. 2,426,264; Aug. 26.
- Fowler, Gilbert, Brooklyn, N. Y. Spot shirring attachment. 2,424,157; July 15.
- Fowler, Harwood B., Wayne, Pa. Making metallic printing screens. 2,421,607; June 3.
- Fowler, Herman J., Chicago, Ill. Clock-actuated electric control means. 2,420,874; May 20.
- Fowler, Herman J., Chicago, Ill. Tie rack. 2,428,454; Oct. 7.
- Fowler, John T., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Crusher roll with sectional surface elements. 2,414,591; Jan. 21.
- Fowler, John T., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Crusher roll including removable wear segments and interlocked teeth. 2,429,157; Oct. 14.
- Fowler, Ralph R., Oak Park, Ill., assignor to Automatic Electric Laboratories, Inc. Apparatus for recording the firing speed of rapid-fire guns. 2,430,810; Nov. 11.
- Fowler, Victor M., Spokane, Wash. Ladder brace. 2,419,065; Apr. 15.
- Fox, Alexander P.: *See*—  
Dorsey, Sherman H., Reisert, Fox, and Mueller.
- Fox, Arthur G., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave transmission network. 2,432,093; Dec. 9.
- Fox, Arthur G., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Impedance transformer for wave guides. 2,432,094; Dec. 9.
- Fox, Arthur G.: *See*—  
Diskeborn, Merle C., and Fox.
- Fox, Arthur G., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Impedance transformer for wave guides. 2,422,191; June 17.
- Fox, Arthur L.: *See*—  
Carr, James A., and Fox.
- Fox, Arthur L., Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Copper compounds of mercaptans derived from camphene. 2,414,035; Jan. 7.
- Fox, Benjamin, Philadelphia, Pa., assignor, by mesne assignments, to H. H. Eby, Fort Wayne, Ind. Spring binding post. 2,424,444; July 22.
- Fox, Carl H., assignor of one-half to Southwest Airmotive Company, Love Field, Dallas, Tex. Airplane antenna automatic tuning system. 2,417,191; Mar. 11.
- Fox, Charles A., Oakland Village, assignor to James R. Kearney Corporation, St. Louis, Mo. Bird guard for electrical protective devices. 2,414,732; Jan. 21.



- Fox, Leroy J.: *See*—  
Sax, Herman, and Fox.
- Fox, Martin, Chicago, Ill., assignor to The Seng Company. Desk having an extensible support for a typewriter. 2,428,211; Sept. 30.
- Fox, Norman H., assignor to Goodall-Sanford, Inc., Sanford, Maine. Loom whip roll mechanism. 2,433,039; Dec. 23.
- Fox, Raymond S., West Hartford, Conn. Continuous angularly movable light beam recorder. 2,432,303; Dec. 9.
- Fox, Richard D., assignor to Food Machinery Corporation, San Jose, Calif. Flexibly suspended ball means for advancing articles over transverse assorting rollers. 2,417,921; Mar. 25.
- Fox, Sereck H., Birmingham, and L. P. Opferman, East Detroit, assignors, by mesne assignments, to Gelatin Products Corporation, Detroit, Mich. Multivitamin preparation and producing same. 2,433,688; Dec. 30.
- Fox, William M., Havre de Grace, Md. Grenade adapter. 2,420,661; May 20.
- Fox, Wilson R., Wyandotte, Mich. Drum handling device. 2,418,503; Apr. 8.
- Foxboro Company, The, assignee: *See*—  
Bilyeu, Gerald I.  
Bowditch, Hoel L.
- Foy, Everett L., East Rainelle, W. Va. Apparatus for automatically operating dump truck tail gates. 2,419,636; Apr. 29.
- Frabutt, Joseph A., Caldwell, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Metering high-frequency current. 2,429,614; Oct. 28.
- Fragen, Nathan, Hammond, and C. W. Nysewander, Highland, Ind., assignors to Standard Oil Company, Chicago, Ill. Controls for isomerization systems. 2,414,371; Jan. 14.
- Frager, Max, Philadelphia, Pa. Providing rust free surfaces on ferrous metal parts. 2,428,364; Oct. 7.
- Fragola, Caesar F.: *See*—  
Curry, Robert S., Jr., and Fragola.  
Depp, Marlin C., and Fragola.
- Fragola, Caesar F., East Hempstead, N. Y., assignor to Sperry Gyroscope Company, Inc. Gyro flux valve compass system. 2,424,562; July 29.
- Fraim, Freeman W., West Barrington, R. I., assignor to International Braid Company. Woven fabric reinforcement. 2,419,829; Apr. 29.
- Fram Corporation, assignee: *See*—  
Card, Ralph H.
- Frame, Newton B., and J. W. Kelm, Buckhannon, W. Va. Snow plow. 2,420,591; May 10.
- Framhein, Herbert J., Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pallet truck. 2,415,090; Feb. 4.
- Framhein, Herbert J., Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lift truck. 2,417,394; Mar. 11.
- Framhein, Herbert J., Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pallet truck. 2,417,395; Mar. 11.
- Framhein, Herbert J., Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pallet truck. 2,417,396; Mar. 11.
- Framhein, Herbert J., Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pallet truck. 2,422,538; June 17.
- Francis, Alfred, Providence, R. I. Ear wire for earrings. 2,420,531; May 13.
- Francis, Carleton S., Jr., Chestnut Hill, Pa., assignor, by mesne assignments, to American Viscose Corporation, Wilmington, Del. Process for treating fibrous materials. 2,430,868; Nov. 18.
- Francis, Charles B., Pittsburgh, Pa. Utilization of ferrous sulphate solutions in the manufacture of other sulphates. 2,416,744; Mar. 4.
- Francis, Earle V., Columbus, Ohio, assignor to The Jeffrey Company. Bin level control. 2,429,158; Oct. 14.
- Francis, Elliott S.: *See*—  
McCarthy, Paul R., and Francis.
- Francis, Joseph M., and A. B. Armistead, Roanoke, Va., assignors to The Union Switch and Signal Company, Swissvale, Pa. Pulse generating receiver for coded carrier signals. 2,422,231; June 17.
- Francis, Kenneth L., Denver, Colo. Fluorescent fixture. 2,418,926; Apr. 15.
- Francis, Louis, assignor of one-half to M. L. Francis, Union City, N. J. Pneumatic tool. 2,432,877; Dec. 16.
- Francis, Mary L., assignee: *See*—  
Francis, Louis.
- Francis, Oliver T., Renville, Minn. Electronic time indicating device. 2,417,070; Mar. 11.
- Francis, Oliver T., Renville, Minn. Duration impulse receiver. 2,421,022; May 27.
- Frank, Emil, Hackensack, N. J. Trough type oil burner. 2,427,452; Sept. 16.
- Francœur, Walter: *See*—  
Heppell, George, and Francœur.
- Franeona, Frank, Melrose Park, assignor of one-half to T. A., T. B., J. A., and M. C. Horne, co-partners, doing business as John Horne Candy Mfg. Co., Chicago, Ill. Automatic feeder and transfer mechanism. 2,430,605; Nov. 11.
- Frangquist, Gustav H., Chicago, Ill., assignor to Combustion Engineering Company, Inc., New York, N. Y. Bowl mill with vane means providing uniform velocity upwardly swirling air currents. 2,431,746; Dec. 2.
- Frank, Albert R., New York, N. Y., and R. B. Booth, Springfield, Conn., assignors to American Cyanamid Company, New York, N. Y. Producing magnesium cyanide. 2,419,931; Apr. 29.
- Frank, Carl W.: *See*—  
Miller, Arthur S., Frank, and Hagglund.
- Frank, Charles E.: *See*—  
Vaala, Gordon T., and Frank.
- Frank, Clarence E., Fraser, assignor to Briggs Manufacturing Company, Detroit, Mich. Engine. 2,413,820; Jan. 7.
- Frank, Clarence E., and R. A. Wyatt, assignors to Briggs Manufacturing Company, Detroit, Mich. Engine. 2,419,066; Apr. 15.
- Frank, Clarence E., Fraser, and R. A. Wyatt, Detroit, assignors to Briggs Manufacturing Company, Detroit, Mich. Rotary valve for internal-combustion engines. 2,427,270; Sept. 9.
- Frank, Edward J.: *See*—  
Gayer, John D., Frank, and Boisseau.
- Frank, Edward J., Springfield, and H. P. Fitzpatrick, Philadelphia, Pa., assignors to General Electric Company. Electric switch. 2,426,009; Aug. 19.
- Frank, Frederick C., assignor to Bendix Aviation Corporation, South Bend, Ind. Disk brake. 2,423,882; July 15.
- Frank, Frederick C., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake for airplane wheels. 2,431,667; Nov. 25.
- Frank, Louis, Fellows, Calif. Rivet ejector and gun. 2,416,474; Feb. 25.
- Frank, Louis, Fellows, Calif. Rivet hole locator and gauge. 2,417,681; Mar. 18.
- Frank, Louis, Fellows, Calif. Dispensing container having a gravity operated closure. 2,419,769; Apr. 29.
- Frank, Louis, Fellows, Calif. Food chopper. 2,422,005; June 10.
- Frank, William H., assignor to Bull-Dog Electric Products Company, Detroit, Mich. Wire terminal turning and binding tool. 2,430,119; Nov. 4.
- Frankel, Jack, Brooklyn, N. Y. Automatic lifesaving device. 2,432,741; Dec. 16.
- Frankel, Jerome, Larchmont, N. Y. Feeding device for animals. 2,416,520; Feb. 25.
- Frankel, Leo: *See*—  
Frankel, Morris and L.
- Frankel, Leo, Chicago, Ill. Camera. 2,426,823; Sept. 2.
- Frankel, Morris and L., Los Angeles, Calif. Pneumatic tire. 2,413,915; Jan. 7.
- Frankel, Samuel H., Chicago, Ill., assignor, by mesne assignments, to Helene Curtis Industries, Inc. Pedestal structure. 2,422,297; June 17.
- Frankel, Samuel H., Chicago, Ill., assignor, by mesne assignments, to Helene Curtis Industries, Inc. Pedestal and base connector structure therefor. 2,427,206; Sept. 9.
- Frankel, Sydney, New York, N. Y., assignor to M. J. Rymland, Baltimore, Md. Machine for assembling upholstery springs. 2,414,372; Jan. 14.
- Frankel, Sidney, Forest Hills, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Rectifier filter system. 2,418,114; Apr. 1.
- Frankhouser, Albert G., assignor to The H. G. Shook Company, Lima, Ohio. Snatch block. 2,423,142; July 1.
- Franklin, Albert W., New York, assignor of one-half to J. Poster, Brightwaters, N. Y. Forming metal and attaching it to a support. 2,431,393; Nov. 25.
- Franklin, Godfrey, Vallejo, Calif. Float valve for air filters. 2,417,976; Mar. 25.
- Franklin, Hubert F., Baldwin, N. Y., assignor to Republic Aviation Corporation. Clamp structure. 2,426,498; Aug. 26.
- Franklin, Leslie U., Port Arthur, Tex., assignor to Gulf Oil Corporation, Pittsburgh, Pa. Alkylation of hydrocarbons. 2,425,462; Aug. 12.
- Franklin, Phillip G., Leavenworth, Wash. Lumber stacker. 2,416,050; Feb. 18.
- Franklin Process Company, assignee: *See*—  
Traver, William A.
- Franks, Russell, and W. O. Binder, Niagara Falls, N. Y., assignors to Haynes Stellite Company. Ferrous alloys for high temperature service. 2,432,614; Dec. 16.
- Franks, Russell, and W. O. Binder, Niagara Falls, N. Y., assignors to Electro Metallurgical Company. Iron-base alloys. 2,432,615; Dec. 16.
- Franks, Russell, and W. O. Binder, Niagara Falls, N. Y., assignors, by mesne assignments, to Electro Metallurgical Company. Ferrous alloys for use at high temperatures. 2,432,616; Dec. 16.
- Franks, Russell, and W. O. Binder, Niagara Falls, N. Y., assignors, by mesne assignments, to Electro Metallurgical Company. Ferrous alloys for high temperature use. 2,432,617; Dec. 16.
- Franks, Russell, and W. O. Binder, Niagara Falls, N. Y., assignors, by mesne assignments, to Electro Metallurgical Company. Ferrous alloys for high temperature use. 2,432,618; Dec. 16.
- Franks, Russell, and W. O. Binder, Niagara Falls, N. Y., assignors to Haynes Stellite Company. Ferrous alloys and articles. 2,432,619; Dec. 16.



- Frankwich, Alexander C., and S. M. Martin, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for molding articles. 2,428,275; Sept. 30.
- Frantz, Glenn R., Port Washington, N. Y., and A. F. Pomeroy, Bernardsville, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ultra high frequency wave meter. 2,419,208; Apr. 22.
- Frantz, Samuel G.: *See—*  
Roberts, Walter V., and Frantz.
- Frantz, Virgil L., Roanoke, Va. Sand trap for rail sanders. 2,426,499; Aug. 26.
- Franz, Arvel O., and O. C. Keplinger, Alton, Ill., assignors to Olin Industries, Inc. Nitration. 2,415,423; Feb. 11.
- Franz, Arvel O., East Alton, Ill., and J. M. Martinez and M. D. Koppelman, New Haven, Conn., assignor to Olin Industries, Inc. Flat type dry battery. 2,416,576; Feb. 25.
- Franz, Erwin E., Cranford, N. J., assignor to Western Electric Company, New York, N. Y. Strand tensioning apparatus. 2,425,525; Aug. 12.
- Franz, Erwin E., Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Adjustment device. 2,430,606; Nov. 11.
- Franzel, Richard M.: *See—*  
Kliever, Waldo H., and Franzel.
- Fraser, Alan R., assignor to Chromium Mining & Smelting Corporation Limited, Sault Ste. Marie, Ontario, Canada. Production of chromium compounds. 2,420,532; May 13.
- Fraser, Douglas, & Sons Limited, assignee: *See—*  
Fraser, Gordon S.
- Fraser, Gordon S., Arbroath, assignor to Douglas Fraser & Sons Limited, Angus, Scotland. Stop motion for spinning and like textile frames. 2,421,555; June 3.
- Fraser, James, assignor to Speakman Company, Wilmington, Del. Mixing valve. 2,417,158; Mar. 11.
- Fraser, Malcolm W., Maumee, assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio. Convertible vacuum cleaner. 2,419,490; Apr. 22.
- Fraser, Malcolm W., trustee, assignee: *See—*  
Parsons, John B.
- Fraser, Roland K.: *See—*  
Dinmore, Harry C., Jr., and Fraser.
- Fraser, Walter G., Jr., Prospect Park, and G. C. Taylor, Bala-Cynwyd, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Steam jet refrigeration apparatus. 2,423,307; July 1.
- Fraser, Harold B., Fresno, Calif. Helicopter. 2,415,999; Feb. 18.
- Frawley, Robert N.: *See—*  
Martin, Edward J., Frawley, and Grinstead.
- Frazee, Maurice D., Washington, D. C. Pack bag. 2,428,795; Oct. 14.
- Frazer, John E., Burbank, Calif., assignor, by mesne assignments, to Lockheed Aircraft Corporation. Mounting means for fabric and like covering sheets. 2,417,922; Mar. 25.
- Frazier, William T., Kinston, N. C. Sawmill head block adjusting device. 2,430,925; Nov. 18.
- Frazin, Benjamin, New York, N. Y. Shopping cart. 2,421,322; May 27.
- Frear, Hugo P., Manhasset, N. Y., assignor to Bethlehem Steel Company. Ship construction. 2,413,821; Jan. 7.
- Frear, William, Fox Chase, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Socket structure. 2,421,780; June 10.
- Freese, Hurxthal F., Canton, Ohio. Apparatus for producing automatic scatter fire of a machine gun and for similar purposes. 2,429,713; Oct. 28.
- Frederick, Carl L., Williamsville, N. Y., and R. C. Curtis, New Haven, Conn., assignors to Dictaphone Corporation, New York, N. Y. Electronic amplifier control system. 2,432,878; Dec. 16.
- Frederick, Emile, Jr., New Orleans, La., and W. Waterfall, assignors to The Celotex Corporation, Chicago, Ill. Concrete form lining and manufacture. 2,432,002; Dec. 2.
- Frederick, Tilghman G., New York, N. Y. Film feed mechanism. 2,415,737; Feb. 11.
- Fredericksen, George H., assignee, et al.: *See—*  
Bruen, George C.
- Fredericksen, James P., Braintree, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Method and machine for sewing cement bonded seams. 2,418,169; Apr. 1.
- Fredericksen, James P., Braintree, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for operating on the soles of shoes. 2,428,365; Oct. 7.
- Frederickson, Gustav, Bristol, Conn., assignor to General Motors Corporation, Detroit, Mich. Method and apparatus for magnetically testing the hardness of paramagnetic objects. 2,427,774; Sept. 23.
- Fredrickson, Russell H., Minneapolis, and H. N. Stephens, White Bear Lake, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Cementitious surface covering. 2,422,665; Jan. 24.
- Frederickson, Sarah S., Oklahoma City, Okla. Medicated cigarette. 2,418,296; Apr. 1.
- Fredericks, Fred, New York, N. Y. Box with sliding latch. 2,430,220; Nov. 4.
- Free Sewing Machine Co., assignee: *See—*  
Ivandick, Matthew G.
- Freeborn, James E., Broxbourne, assignor to Freeborn Power Converters Limited, London, England. Friction clutch. 2,419,890; Apr. 29.
- Freeborn Power Converters Limited, assignee: *See—*  
Freeborn, James E.
- Freed, Meyer L., Ansonia, assignor to The Seymour Manufacturing Co., Seymour, Conn. Homogeneous flaked catalyst composition and its preparation. 2,424,811; July 29.
- Freed, Raymond W., Inglewood, Calif. Mailbag protector. 2,429,019; Oct. 14.
- Freedlander, Abraham L., D. L. Vaughn, and E. H. Kremer, Dayton, Ohio, assignors to The Dayton Rubber Company. Wire reinforced double cog belt. 2,430,500; Nov. 11.
- Freedman, Benjamin H., New York, N. Y. Ticket strip and ticket. 2,416,686; Mar. 4.
- Freedman, Bertha, assignee: *See—*  
Freedman, Hyman.
- Freedman, Hyman, New York, N. Y. Footwear. 2,418,342; Apr. 1.
- Freedman, Hyman, assignor of one-half to B. Freedman, New York, N. Y. Dental engine attachment. 2,415,203; Feb. 4.
- Freedman, Louis, Mount Vernon, and E. Green, New York, N. Y., assignors to U. S. Vitamin Corporation. Fat-soluble vitamin solutions. 2,417,299; Mar. 11.
- Freedman, Ruth, New York, N. Y. Brassiere. 2,420,472; May 13.
- Freedman, Samuel, and A. Bradin, Asbury Park, N. J. Nonrefillable container. 2,425,148; Aug. 5.
- Freeman, Bernard, Philadelphia, Pa. Shoulder pad. 2,419,830; Apr. 29.
- Freeman, George A., East Orange, N. J., and H. J. Conlin, Fairmont, W. Va., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Mercury doser. 2,420,203; Oct. 21.
- Freeman, Harry, Providence, R. I. Lighting equipment. 2,420,943; May 20.
- Freeman, Howard G., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Sprinkler unit. 2,418,765; Apr. 8.
- Freeman, Keith L., Swissvale, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control circuit. 2,431,237; Nov. 18.
- Freeman, Louis G., Jr., Cincinnati, Ohio. Decorating machine. 2,424,023; July 15.
- Freeman, Richard D., assignor to The Dow Chemical Company, Midland, Mich. Creaming latexes. 2,423,766; July 8.
- Freeman, Robert M., U. S. Navy. Torpedo director. 2,421,749; June 10.
- Freeman, Robert M., U. S. Navy. Package unloading device. 2,426,993; Sept. 9.
- Freeman, Stephen E., Pittsburgh, Pa., and S. W. Gloyer, Milwaukee, Wis., assignors to Pittsburgh Plate Glass Company. Fractionation of tall oil. 2,423,232; July 1.
- Freese, Gerald J.: *See—*  
Dorfman, Hiller D., and Freese.  
Gano, Harlan S., and Freese.
- Freese, Gerald J., East McKeesport, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,416,169; Feb. 18.
- Fregeolle, Oscar, assignor to Hemphill Company, Central Falls, R. I. Needle latch guard. 2,417,479; Mar. 18.
- Fregeolle, Oscar, assignor to Hemphill Company, Central Falls, R. I. Wrapping mechanism. 2,422,232; June 17.
- Fregeolle, Oscar, assignor to Hemphill Company, Central Falls, R. I. Wrap spindle. 2,426,010; Aug. 19.
- Fregeolle, Oscar, assignor to Hemphill Company, Central Falls, R. I. Knitting machine. 2,427,720; Sept. 23.
- Frei, Jakob R., Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Distributor. 2,418,504; Apr. 8.
- Frei, Jakob R., Sidney, assignor to Bendix Aviation Corporation, New York, N. Y. Ignition apparatus. 2,418,505; Apr. 8.
- Frei, Karl, Oberesslingen, Germany; vested in the Alien Property Custodian. Apparatus for kneading and mixing rubber. 2,415,091; Feb. 4.
- Freiberg, Henry, assignor of one-half to S. Freiberg, London, England. Decoration of fibrous surfaces. 2,416,521; Feb. 25.
- Freiberg, Louis D., assignee: *See—*  
Silver, Joseph R.
- Freiberg, Samuel, assignee: *See—*  
Freiberg, Henry.
- Freinkel, Leonard, Washington, D. C. Synchronous motor control system. 2,428,019; Sept. 30.
- Freis, James H., Chicago, Ill. Collapsible golf bag carrier. 2,414,941; Jan. 28.
- Freis, James H., Chicago, Ill. Collapsible golf bag carrier. 2,422,298; June 17.
- Fremlin, John H., London, W. C. 2, assignor to Standard Telephones and Cables Limited, London, England. Electron discharge apparatus incorporating high frequency resonators. 2,414,517; Jan. 21.
- Fremlin, John H., London, W. C. 2, assignor to Standard Telephones and Cables, Limited, London, England. Electron discharge tube. 2,416,299; Feb. 25.



- Fremon, George H.: *See*—  
Shriver, Leland C., and Fremon.
- Fremon, George H., Charleston, W. Va., assignor to Carbide & Carbon Chemicals Corporation. Production of spinning solutions. 2,413,758; Jan. 7.
- French, Donald A., Sr., Detroit, Mich. Electrode holder. 2,433,355; Dec. 30.
- French, Edward A., Chicago, Ill., assignor to Birtman Electric Company. Adjustable wheel mounting for tank type suction cleaners. 2,433,356; Dec. 30.
- French, Elby E., Denver, Colo., assignor to H. V. James, R. Turner, and H. Dutro, as trustees for the O. K. Rubber Welding System. Tire tread. 2,424,608; July 29.
- French, Frederic A., and L. N. Whitehill, Berkeley, Calif. Substituted dioxanes. 2,418,297; Apr. 1.
- French, Henry C., Elm Grove, assignor to Arnold Dryer Co., Milwaukee, Wis. Collector. 2,414,641; Jan. 21.
- French, James W., assignor to Barr & Stroud, Limited, Glasgow, Scotland. Telescopic optical observation instrument. 2,418,298; Apr. 1.
- French, James W., assignor to Barr & Stroud, Limited, Glasgow, Scotland. Apparatus for averaging data such as range finder data. 2,428,212; Sept. 30.
- French, Jeannette, Kew Gardens, N. Y. Cook stove and range. 2,417,977; Mar. 25.
- French Oil Mill Machinery Co., The, assignee: *See*—  
Simon, Forrest C.  
Stacy, Thomas F.
- French Oil Mill Machinery Company, The, assignee: *See*—  
Stacy, Thomas F.  
Stacy, Thomas F., and Farmer.
- French, Patrick M.: *See*—  
Flite, John W., and French.
- French, Richard W., Jr., assignor to Continental Oil Company, Ponca City, Okla. Determining fluid conductance of earth layers. 2,429,577; Oct. 21.
- French, Samuel H., and Co., assignee: *See*—  
Chaiken, Hyman F.
- French, Vernon F., assignor to Skenandoo Rayon Corporation, Utica, N. Y. Funnel for rayon spinning. 2,425,182; Aug. 5.
- Frenkil, Victor, Baltimore, Md. Foundation pile. 2,428,070; Sept. 30.
- Frentzel, Herman C., Jr., and E. O. Errath, assignors to The Heil Co., Milwaukee, Wis. Heating apparatus. 2,420,875; May 20.
- Freshmaster Corporation, assignee: *See*—  
Moore, Charles F.
- Freud, Ernest, Hartford, Conn. Machine for surface finishing action on materials. 2,420,876; May 20.
- Freudenberger, Werner, Cranford, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Stabilized N-vinyl pyrrole compounds. 2,414,407; Jan. 14.
- Freudenberger, Heinrich: *See*—  
Stark, Werner, and Freudenberger.
- Freund, Berthold G., Forest Hills, N. Y. Endless conveyor drier structure. 2,415,738; Feb. 11.
- Freund, Ernest H., and P. Mahler, assignors to General Foods Corporation, New York, N. Y. Treatment and utilization of cashew nutshell liquid. 2,415,347; Feb. 4.
- Freund, Herbert, West New York, N. J. Coating or sizing treatment of yarns. 2,418,927; Apr. 15.
- Freund, Herman R., assignor to Intertype Corporation, Brooklyn, N. Y. Apparatus for producing justified type matter. 2,426,146; Aug. 19.
- Freund, Robert R., Mount Carmel, Ill. Bath and lavatory supply construction for bed structures. 2,432,147; Dec. 9.
- Frevel, Ludo K., assignor to The Dow Chemical Company, Midland, Mich. Removal of acetylenic hydrocarbons from diolefin-containing mixtures. 2,426,604; Sept. 2.
- Frey, Delton R., East Cleveland, Ohio. Lubricating composition. 2,432,095; Dec. 9.
- Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Alkylation of paraffins. 2,413,759; Jan. 7.
- Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Removal of organic fluorine. 2,413,868; Jan. 7.
- Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. HF alkylation of hydrocarbons in the presence of tempering agents. 2,416,000; Feb. 18.
- Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Decrease of organic fluorine compounds in hydrofluoric acid alkylation of hydrocarbons. 2,417,106 Mar. 11.
- Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Catalytic reconstruction of hydrocarbons. 2,418,023; Mar. 25.
- Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Catalytic dehydrogenation of hydrocarbons. 2,418,255; Apr. 1.
- Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Partial dealkylation. 2,420,073; May 6.
- Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Alkylation of hydrocarbons. 2,422,349; June 17.
- Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Copolymerization of butenes and propene. 2,427,954; Sept. 23.
- Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Conversion of hydrocarbons. 2,428,151; Sept. 30.
- Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Separating geometric isomers of piperylene from each other. 2,430,395; Nov. 4.
- Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Prevention of siliceous deposits in processes wherein hydrocarbons are contacted with organic fluorine-removing material containing silica. 2,430,460; Nov. 11.
- Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Conversion of olefins with hydrogen fluoride catalyst. 2,431,549; Nov. 25.
- Freygang, Walter H., Essex Fells, N. J., assignor to Kidde Manufacturing Co., Inc. Lawn sprinkler. 2,426,603; Sept. 2.
- Freyng Engineering Company, assignee: *See*—  
Whitcomb, Arthur J.
- Frick-Gallagher Manufacturing Company, assignee: *See*—  
Keath, Charles K.  
Mueller, Arthur W.
- Friden Calculating Machine Co., Inc., assignee: *See*—  
Ellerbe, Grant C.
- Friden, Carl M., and Machado.  
Moody, John L.
- Friden, Carl M., Pleasanton, and A. B. Machado, Oakland, Calif., assignors to Friden Calculating Machine Co., Inc. Multiplier correction mechanism. 2,427,271; Sept. 9.
- Frieden, Alexander, New Rochelle, and S. J. Werbin, assignors to Stein Hall & Co. Inc., New York, N. Y. Irish mass food product. 2,427,594; Sept. 16.
- Frieder, Leonard P., Great Neck, and W. S. Finken, Brooklyn, N. Y., said Finken assignor to said Frieder. Balloon with parachute. 2,415,818; Feb. 18.
- Frieder, Leonard P., Rockville Centre, and W. S. Finken, Brooklyn, N. Y.; said Finken assignor to said Frieder. Net. 2,423,308; July 1.
- Frieder, Leonard P., New York, and W. S. Finken, Brooklyn, N. Y., said Finken assignor to said Frieder. Hemispherical parachute canopy. 2,426,926; Sept. 2.
- Friedheim, Ernst A. H., New York, N. Y. Therapeutically active 1,3,5-triazine-derivatives. 2,415,554; Feb. 11.
- Friedheim, Ernst A. H., New York, N. Y. Organometallic compounds containing 1,3,5-triazine rings. 2,415,555; Feb. 11.
- Friedheim, Ernst A. H., New York, N. Y. 1,3,5-triazinyl-phenyl-sulfides carrying an arsenic radical. 2,415,556; Feb. 11.
- Friedheim, Ernst A. H., New York, N. Y. Organometallic compounds containing 1,3,5-triazine rings. 2,418,115; Apr. 1.
- Friedheim, Ernst A. H., New York, N. Y. Arsenic compounds of phenyl-hydrazo-naphthol sulfonic acids. 2,419,348; Apr. 22.
- Friedheim, Ernst A. H., New York, N. Y. Substituted 1,3,5-triazinyl- (6) -aminophenyl-arsenic compounds. 2,422,724; June 24.
- Friedheim, Ernst A. H., New York, N. Y. Organometallic compounds containing 1,3,5-triazine rings. 2,430,461; Nov. 11.
- Friedheim, Ernst A. H., New York, N. Y. Producing organometallic compounds containing 1,3,5-triazine rings. 2,430,462; Nov. 11.
- Friedlander, Erich, Sutton Coldfield, assignor to General Electric Company Limited, London, England. Variable reactor. 2,431,860; Dec. 2.
- Friedlander, Joseph, Newark, N. J. Vending and display device. 2,414,691; Jan. 21.
- Friedman, Alfred B., Pittsburgh, Pa. Automobile headlight control. 2,431,394; Nov. 25.
- Friedman, Alvin H., Bartlesville, Okla., assignor to Phillips Petroleum Company. Isomerization of olefins. 2,428,455; Oct. 7.
- Friedman, Bernard S., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Isomerization of saturated hydrocarbons. 2,427,775; Sept. 23.
- Friedman, Bernard S., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Separation of organic compounds. 2,433,751; Dec. 30.
- Friedman, Edward, Brooklyn, N. Y. Confection. 2,417,480; Mar. 18.
- Friedman, Harris L.: *See*—  
Feinstone, Wolfe H., and Friedman.
- Friedman, Harris L., New York, and L. D. Braitberg, assignors to Pyridium Corporation, Yonkers, N. Y. Glucose bisulfite compounds of alkoxy amino pyridine. 2,426,011; Aug. 19.
- Friedman, Harris L., New York, and L. D. Braitberg, assignors to Pyridium Corporation, Yonkers, N. Y. Glucosidamino compounds of alkoxy pyridine. 2,426,012; Aug. 19.
- Friedman, Herbert, Arlington, Va. Measuring the thickness of thin coatings. 2,428,796; Oct. 14.
- Friedman, Irving, Hillside, N. J. Apparatus for cleaning watchworks and the like mechanisms. 2,416,475; Feb. 25.
- Friedman, Jack J., Cleveland, Ohio. Traction device. 2,422,006; June 10.
- Friedman, Maurice: *See*—  
Fischbach, Adolph, and Friedman.
- Friedman, Murray J., Northampton, Mass. Apparatus for treating sheet material. 2,419,132; Apr. 15.



- Friedman, Philip, Los Angeles, Calif. Interlocking poker chip. 2,429,020; Oct. 14.
- Friedman, Samuel, Brooklyn, N. Y. Oil remover or wiper. 2,425,526; Aug. 12.
- Friedman, Samuel, Cedarhurst, assignor to Brite Specialty Company, New York, N. Y. Wrist watch strap. 2,432,661; Dec. 16.
- Friedman, Theodore, New York, N. Y. Locking flat members to bodies. 2,431,238; Nov. 18.
- Friedmann, Albert, assignor to Karl Lieberknecht, Inc., Reading, Pa. Yarn carrier for knitting machines. 2,432,304; Dec. 9.
- Friedmann, Martin, Jr., Norfolk, Va. Footwear. 2,424,609; July 29.
- Friedrich, Ed, Inc., assignee: *See*—  
Brinkoeter, Paul H.  
Friedrich, Edward.  
Van Sickle, Roswell C., Friedrich, and Fry.
- Friedrich, Edward, assignor to Ed Friedrich, Inc., San Antonio, Tex. Domino score rack. 2,415,630; Feb. 11.
- Friel, Roy L., Chicago, Ill. Printing press. 2,429,874; Oct. 28.
- Friemoth, Otto A., Toledo, Ohio. Christmas tree holder. 2,432,233; Dec. 9.
- Friend, Robert E., Chenequa, assignor to Nordberg Manufacturing Co., Milwaukee, Wis. Ship's telegraph. 2,418,170; Apr. 1.
- Frier, John, Webster Groves, Mo. Machine for coating and opening flexible tubing. 2,424,445; July 22.
- Frigie Corporation of America, assignee: *See*—  
Glazer, Daniel.
- Friis, Harald T.: *See*—  
Beck, Alfred C., and Friis.
- Friis, Harald T., Rumson, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Branching circuits. 2,419,557; Apr. 29.
- Frink, Carl H. and G. W. Kenyon, assignors to Frink Sno-Plows, Inc., Clayton, N. Y. Snowplow. 2,430,221; Nov. 4.
- Frink, Frederick W., East Orange, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Radio receiver. 2,414,460; Jan. 21.
- Frink, Frederick W., East Orange, N. J., assignor to Federal Telephone and Radio Corporation. Defining radio courses. 2,421,023; May 27.
- Frink Sno-Plows, Inc., assignee: *See*—  
Frink, Carl H., and Kenyon.
- Frisby, Frank D., assignor to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo. Shaft sealing ring. 2,420,039; May 6.
- Frisby, Frank D., and M. W. Marien, assignors to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo. Shaft oil seal. 2,420,040; May 6.
- Frisch, Arthur, New York, N. Y. Aerial projectile game. 2,426,551; Aug. 26.
- Frisch, Erling: *See*—  
Schaelchlin, Walter, and Frisch.
- Frisch, Erling, Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric propulsion system. 2,424,310; July 22.
- Frisch, Wayne R., Pittsfield, and C. W. Crew, deceased, by Ruth A. Crew, Dalton, Mass., administratrix; said W. R. Frisch and C. W. Crew, assignors to General Electric Company. Insulation for magnetic steel and the like. 2,426,445; Aug. 26.
- Frische, Carl A.: *See*—  
Bentley, George P., and Frische.  
Halpert, Percy, and Frische.  
Halpert, Percy, Frische, Bird, and Esva.
- Frische, Carl A., Leonia, and G. N. Hanson, Allendale, N. J., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Altitude control for aircraft. 2,415,092; Feb. 4.
- Frische, Carl A., Great Neck, P. Halpert, Kew Gardens, and J. R. Wilkerson, Bayside, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Automatic pilot with automatic banking. 2,415,430; Feb. 11.
- Frischmuth, Robert W.: *See*—  
Colton, Henry S., and Frischmuth, and Knowles.
- Frisco, William P., Dundalk, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Conductors insulated with rubber compound layers bonded together. 2,427,198; Sept. 9.
- Frisco, William P., Dundalk, and V. A. Rayburn, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for painting surfaces. 2,428,965; Oct. 14.
- Frisk, Nils P. W., Stockholm, assignor, by mesne assignments, to Telefon Aktiebolaget L. M. Ericsson Mid-sommarkransen, near Stockholm, Sweden. Thermopile for measuring air temperature. 2,417,923; Mar. 25.
- Frisk, Nils P. W., assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Retarded shaded pole motor. 2,419,396; Apr. 22.
- Fristoe, Frank H., U. S. Army. Portable lamp. 2,420,307; May 13.
- Frodsham, Jack, assignee: *See*—  
Dawson, William L.
- Froelich, George E.: *See*—  
Merrett, Earle E., and Froelich.
- Froelich, Gustave H., assignor to The Torrington Manufacturing Company, Torrington, Conn. Wheel and shaft assembly means. 2,421,254; May 27.
- Froelich, Herman C., Cleveland, Ohio, assignor to General Electric Company. Luminescent material. 2,415,129; Feb. 4.
- Froehlich, S., Co., Inc., assignee: *See*—  
Chianese, Joseph.
- Frohman, Philip H., Washington, D. C. Electric organ. 2,426,605; Sept. 2.
- Frohoff, John R., and K. J. Glasmann, Denver, Colo. Spraying rack for railway cars. 2,419,397; Apr. 22.
- Froland, Olav, assignor to J. R. Kearney Corporation, St. Louis, Mo. Electrical switch. 2,420,074; May 6.
- Fromm, Luther W., Seattle, Wash. Pontic tooth. 2,429,931; Oct. 28.
- Frommer, Moses, Brooklyn, N. Y. Binocular spectacles. 2,431,798; Dec. 2.
- Frosch, Carl J., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Linear polymer containing cyclic imide groups. 2,421,024; May 27.
- Frosch, Carl J., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ethylene glycol-isopropylene glycol-sebacic acid-acetic acid polyester. 2,423,093; July 1.
- Frosch, Carl J., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sulphur cured unsaturated polyesters. 2,426,994; Sept. 9.
- Frost, Frank E., Chicago, and E. A. Pavlis, Berwyn, Ill. Plastic door knob. 2,425,611; Aug. 12.
- Frost, George E., Arlington, Va. System for reducing direct-current fault currents. 2,424,231; July 22.
- Froustey, Emile, Quebec, Quebec, Canada, assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for finishing heels. 2,417,481; Mar. 18.
- Fruehauf, Hubert F. V.: *See*—  
Williams, William H., Holmes, and Fruehauf.
- Fruehauf Trailer Company, assignee: *See*—  
Reid, Frederick M.
- Fruendt, Richard J., assignor of one-half to F. P. Smith Wire and Iron Works, Chicago, Ill. Lock. 2,420,743; May 20.
- Fruengel, Hermann R., assignor to Zipp Fastener Company Limited, London, England. Manufacture of sliding clasp fasteners. 2,421,323; May 27.
- Fruh, Arthur W., Chicago, Ill. Alarm bell. 2,432,742; Dec. 16.
- Fruit and Produce Packing, Incorporated, assignee: *See*—  
McCormick, James A.
- Fry, Benjamin W., University City, assignor to National Vendors Inc., St. Louis, Mo. Vending machine. 2,416,439; Feb. 25.
- Fry, Benjamin W., Ladue, assignor to National Vendors Inc., St. Louis, Mo. Coin mechanism. 2,433,689; Dec. 30.
- Fry, Douglas J.: *See*—  
Kendall, John D., and Fry.
- Fry, Douglas J., and J. D. Brooks, assignors to Ilford Limited, Ilford, England. Tone-control agents for silver halide emulsions. 2,423,767; July 8.
- Fry, Eugene M., Matawan, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic focussing device. 2,416,687; Mar. 4.
- Fry, Francis J.: *See*—  
Van Sickle, Roswell C., Friedrich, and Fry.
- Fry, Virgil H., Freeport, Ill., assignor, by mesne assignments, to First Industrial Corporation, Wilmington, Del. Switch mechanism. 2,431,747; Dec. 2.
- Frye, Raymond P.: *See*—  
Yeomans, Lucian I., and Frye.
- Frye, Stanley S., assignor to Fansteel Metallurgical Corporation, North Chicago, Ill. Selenium rectifier disk. 2,422,192; June 17.
- Frying, Charles F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Polymerization of butadiene-1,3 hydrocarbons. 2,416,440; Feb. 25.
- Frying, Charles F., Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Pyrophosphates in emulsion polymerization. 2,427,847; Sept. 23.
- Frying, Charles F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Polymerization of butadiene-1,3 hydrocarbons. 2,430,562; Nov. 11.
- Fuchs, Charles F.: *See*—  
Kharasch, Morris S., and Fuchs.
- Fuchs, Ernst, Wembley Park, England. Device for locating and setting out holes in workpieces. 2,414,733; Jan. 21.
- Fuchs, Harry, New York, N. Y. Electromechanical device. 2,419,014; Apr. 15.
- Fuchs, Henry O.: *See*—  
Schilling, Robert, and Fuchs.
- Fuchs, Louis, Hasbrouck Heights, assignor to Bendix Aviation Corporation, Teterboro, N. J. Solenoids. 2,415,739; Feb. 11.
- Fuchs, Morton: *See*—  
Himmel, Leon, and Fuchs.
- Fuchs, Walter M., State College, Pa. Dustless fuel and obtaining same. 2,416,476; Feb. 25.
- Fuehrer, Jacob, Moodus, Conn. Variable capacity folding box. 2,425,034; Aug. 5.
- Fuel Refining Corporation, assignee: *See*—  
Otto, Carl.
- Fuess, Billings S., West Orange, N. J. Powder container. 2,422,090; June 10.



- Fuge, Harry B., Somerville, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Combined Selsyn receiver-transmitter unit. 2,428,327; Sept. 30.
- Full, Peter, Vermillion, Ohio. Lifeboat fastening means. 2,420,236; May 6.
- Fuller, Calvin S., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Polycarbonamides modified by chromic salts. 2,422,666; June 24.
- Fuller, Calvin S., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Vulcanizing polyester synthetic rubbers to metal bases by means of an intermediate layer of a glycerol phthalate composition. 2,433,357; Dec. 30.
- Fuller, Charles F., Hamden, Conn. Bottle warmer for automobiles. 2,429,512; Oct. 21.
- Fuller Company, assignee: *See*—  
Gaffney, Joseph B.  
Hornbrook, Philip R.
- Fuller, Donald L., and B. S. Greensfelder, Oakland, assignors to Shell Development Company, San Francisco, Calif. Production of synthetic toluene from petroleum. 2,426,824; Sept. 2.
- Fuller, Everett W.: *See*—  
Berger, Henry G., and Fuller.
- Fuller, Everett W., Woodbury, N. J., H. E. Redman, Wyandotte, Mich., and H. G. Berger, Glen Rock, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Mineral oil composition. 2,427,272; Sept. 9.
- Fuller, Frederic B., assignee: *See*—  
Guibert, Francis W., and Fuller.
- Fuller, Grant L., Cleveland Heights, Ohio. Roller skate. 2,429,678; Oct. 28.
- Fuller, Scott A., Oakland, Calif. Drill rig. 2,417,247; Mar. 11.
- Fuller, Stuart L., Royal Oak, Mich. Control switch for direction signals of motor vehicles. 2,427,595; Sept. 16.
- Fulmer, Charles A., Fort Thomas, Ky. Connecting rod boring machine. 2,421,556; June 3.
- Fulmer, Ellis L., and L. A. Underkofer, Ames, Iowa, and R. J. Hickey, Terre Haute, Ind., assignors to Iowa State College Research Foundation, Ames, Iowa. Fermentative glycerol production. 2,416,745; Mar. 4.
- Fulmer, Ellis L., Ames, Iowa, J. W. Dunning, Abilene, and R. H. Fash, Fort Worth, assignors, by mesne assignments, to Anderson, Clayton & Co., Houston, Tex. Converting cellulose into sugar. 2,426,677; Sept. 2.
- Fulton, Barbara S., executrix: *See*—  
Fulton, Weston M.
- Fulton Company, The, assignee: *See*—  
Riemann, Howard C.  
Thorpe, Joel R.
- Fulton, John W., Cleveland Heights, and A. G. Foote, Wickliffe, Ohio, assignors to General Electric Company. Electric lamp or the like. 2,424,446; July 22.
- Fulton, Robert E., Jr., assignor to Continental, Incorporated, Washington, D. C. Roadable airplane. 2,430,869; Nov. 18.
- Fulton, Robert W., executor: *See*—  
Fulton, Weston M.
- Fulton, Stewart C., Elizabeth, C. O. Tongberg, Westfield, and E. D. Reeves, Cranford, N. J., assignors to Standard Oil Development Company. Cracking hydrocarbon oils. 2,417,867; Mar. 25.
- Fulton Sylphon Company, The, assignee: *See*—  
Puster, Louis M.
- Fulton Tone Process Company, The, assignee: *See*—  
Ernst, Victor C.
- Fulton, Weston M., assignor to W. J. Savage Company, Inc., Knoxville, Tenn. Fuel feeding mechanism. 2,426,347; Aug. 26.
- Fulton, Weston M., deceased; B. S. Fulton, J. H. Murrian, and R. W. Fulton, executors, assignors to W. J. Savage Company, Knoxville, Tenn. Burner for solid fuels. 2,427,596; Sept. 16.
- Fulton, Weston M., and S. R. Galyon, assignors to W. J. Savage Company, Inc., Knoxville, Tenn. Rotary-grate burner. 2,426,348; Aug. 26.
- Fulton, William F., assignor to United Gas Pipe Line Company, Shreveport, La. High temperature cracking apparatus. 2,418,506; Apr. 8.
- Funk, Charles R., Greensburg, Pa. Manufacture of chrome alloy steel from a charge containing chrome scrap. 2,422,299; June 17.
- Funk, Ernest M., Columbia, Mo. Preserving eggs for edible consumption. 2,423,233; July 1.
- Funk, Robert V., assignee: *See*—  
Ennis, George H.
- Funk, Rudolph, Hagerstown, Md. Press brake. 2,426,446; Aug. 26.
- Fuqua, Mack C., and J. B. Lovell, Baton Rouge, La., assignors to Standard Oil Development Company. Refining a petroleum oil containing naphthenic acids. 2,424,158; July 15.
- Fuqua, William F., Canton, Ohio. Sealing strip and structure with sealing strip. 2,432,879; Dec. 16.
- Furby, Neal W.: *See*—  
Elwell, William E., and Furby.
- Furedy, Frank: *See*—  
Atkins, Carl E., and Furedy.
- Furman, Frank J.: *See*—  
Mills, Albert W., Furman, and Rabenda.  
Rabenda, Edward J., and Furman.
- Furman, Frank J., Endicott, and E. J. Lamb, Vestal, assignors to International Business Machines Corporation, New York, N. Y. Educational device for aerial gunners. 2,424,088; July 15.
- Furnace Engineers, Inc., assignee: *See*—  
Dobrin, Harry.
- Furnas Electric Company, assignee: *See*—  
Furnas, William C.
- Furnas, Thomas C., Jr., St. Louis, Mo. Picture and map projector. 2,431,612; Nov. 25.
- Furnas, William C., assignor to Furnas Electric Company, Batavia, Ill. Switch. 2,416,253; Feb. 18.
- Furness, Will, L. E. Perrins, and W. F. Smith, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Curing of diisocyanate-modified polyester. 2,432,148; Dec. 9.
- Furness, William H., Haddonfield, N. J., assignor to American Viscose Corporation, Wilmington, Del. Method and apparatus for converting continuous filaments into spinnable slivers. 2,427,955; Sept. 23.
- Furstoss, Ralph J., S. J. Krane, and P. V. McWherter, Peoria, Ill., assignors to Caterpillar Tractor Co., San Leandro, Calif. Automatic cylinder drainage system for internal-combustion engines. 2,433,447; Dec. 30.
- Fusarc Limited, assignee: *See*—  
Stretton, Henry J.
- Fuse Indicator Corporation, assignee: *See*—  
Linton, William C.
- Futura, Inc., assignee: *See*—  
Hale, Frank R.
- Future Unlimited, assignee, et al.: *See*—  
Harold, Charles.
- Fyler, George W., Stratford, Conn., assignor to General Electric Company. Ultra high frequency conversion apparatus. 2,416,577; Feb. 25.
- Fyler, George W., Stratford, Conn., assignor to General Electric Company. Ultra high frequency oscillator. 2,421,255; May 27.
- Fyler, George W., Stratford, Conn., assignor to General Electric Company. Radio locating equipment. 2,427,905; Sept. 23.
- Fyler, George W., Stratford, Conn., assignor to General Electric Company. Radio locating equipment. 2,429,809; Oct. 28.
- G. M. S. Corporation, assignee: *See*—  
Sloan, Theodore H.
- G. Q. Parachute Company, Limited, assignee: *See*—  
Jones, George F.
- G. & R. Manufacturing Company, assignee: *See*—  
Waxeman, Edward.
- Gabeler, William H., assignor to The Davison Chemical Corporation, Baltimore, Md. Gel manufacturing apparatus. 2,424,232; July 22.
- Gabler, John, London, England. Electric water heater. 2,426,302; Aug. 26.
- Gabor, Dennis, Rugby, England, assignor to General Electric Company. Electron optical system. 2,426,866; Sept. 2.
- Gabriel, Adam, River Forest, assignor to Acme Industrial Company, Chicago, Ill. Pump. 2,430,764; Nov. 11.
- Gabriel, Marcel, Biel, and G. Guanella, Zurich, Switzerland, assignors to Radio Patents Corporation, New York, N. Y. Synchronizing system. 2,419,637; Apr. 29.
- Gabry, Jacob: *See*—  
Bray, Richard I., Gabry, and Wendell.
- Gacki, Leonard W., Jamaica, N. Y., assignor to Fairchild Camera and Instrument Corporation. Focal plane shutter. 2,417,482; Mar. 18.
- Gaebel, Arthur H., Larchmont, N. Y. Camera with copy and image centering means. 2,415,424; Feb. 11.
- Gaenssle, Paul W.: *See*—  
Eksergian, Carolus L., and Gaenssle.
- Gaenssle, Paul W., Grosse Pointe Farms, Mich., assignor to The Budd Company, Philadelphia, Pa. Hand brake arrangement. 2,416,871; Mar. 4.
- Gaertner, Glenton G., La Grange, Tex., assignor to Harry Ferguson, Inc., Detroit, Mich. Concrete mixer. Re. 22,912; Sept. 9.
- Gaffney, Joseph B., Hokendauqua, assignor to Fuller Company, Catasauqua, Pa. Cooler having overlapping replaceable gates. 2,431,799; Dec. 2.
- Gaffney, Thomas A.: *See*—  
Blewett, Stephen E., and Gaffney.
- Gagas, Stanley, Perkaskie, Pa. Friction box. 2,415,241; Feb. 4.
- Gage, Edward G., Brooklyn, N. Y. Unifrequency radio beacon system. 2,428,966; Oct. 14.
- Gage, William P., San Anselmo, assignor to Shell Development Company, San Francisco, Calif. Purification of mononitro aromatic compounds. 2,430,421; Nov. 4.
- Gagesteyn, Adrian, Jersey City, N. J. Clamping tool. 2,427,353; Sept. 16.
- Gaines, Orville C., Auburn, Wash. Weeding implement. 2,418,024; Mar. 25.
- Galanty, Harold E.: *See*—  
Bruns, William H., and Galanty.
- Galatoto, Luigi C., Providence, R. I., assignor to Textron Incorporated. Dyeing strands of textile fibers or filaments. 2,432,404; Dec. 9.



- Galazin, Vincent, Los Angeles, Calif. Corner paper cutter. 2,414,408; Jan. 14.
- Galbally, David B., New York, N. Y. Coffee service apparatus. 2,430,501; Nov. 11.
- Galbraith, Howard, Vallejo, Calif. Bevel device. 2,425,732; Aug. 19.
- Galbrecht, Frank I.: *See—*  
Sabel, Edward R., and Galbrecht.
- Galella, Pasquale F., New York, N. Y., and J. A. Brustman, Middletown, Conn., assignors to Remington Rand Inc., Buffalo, N. Y. Automatic focus control for cathode-ray tubes. 2,430,331; Nov. 4.
- Galford, Everett H., Charleston, W. Va. Plumb line reel. 2,421,256; May 27.
- Galion Iron Works & Manufacturing Company, assignee: *See—*  
Patterson, Cecil E.
- Galion Metallic Vault Company, The, assignee: *See—*  
Bisantz, Fred.
- Galkin, Joseph, New York, N. Y. Thread severing mechanism for sewing machines. 2,424,391; July 22.
- Gall, Bernardus O. M., and R. van Rossum, Eindhoven, Netherlands, assignors to Hartford National Bank & Trust Co., Hartford, Conn., as trustee. Blocking-layer cell. 2,433,752; Dec. 30.
- Galla, Joseph J., Fairfield, assignor to The Stratfield Company, Bridgeport, Conn. Choke or ballast and frame therefor. 2,431,867; Dec. 2.
- Gallagher, James W., Prospect Park, Pa. Journal box for railway cars. 2,431,239; Nov. 18.
- Gallaher, Clyde O., Beckley, W. Va., assignor to The Electric Railway Equipment Company, Cincinnati, Ohio. Safety power extension and junction box. 2,424,812; July 29.
- Gallaher, Felix A., assignor to W. J. Gallaher, Seattle, Wash. Excavator apparatus. 2,416,826; Mar. 4.
- Gallaher, William J., assignee: *See—*  
Gallaher, Felix A.
- Gallay Limited, assignee: *See—*  
Belaieff, James F.
- Galley, Hollis T., U. S. Army, assignor to Eastman Kodak Company, Rochester, N. Y. Photographic paper. 2,415,631; Feb. 11.
- Gallimore, Keith F.: *See—*  
Kraut, Hans B., Gallimore, and Morgan.
- Gallimore, Keith F., assignor to Giddings & Lewis Machine Tool Co., Fond du Lac, Wis. Boring machine. 2,428,309; Sept. 30.
- Gallimore, Marshall R., Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Clutch and sprocket assembly. 2,421,875; June 10.
- Galloway, Clarence T., Pittsford, assignor to Gleason Works, Rochester, N. Y. Gear grinding machine. 2,424,271; July 22.
- Gallowhur Chemical Corporation, assignee: *See—*  
Andersen, Carl N.  
Delano, William R. P.
- Galper, Isa, assignor to Bee Bee Shoe Co., Manchester, N. H. Ornamenting machine for shoe uppers. 2,431,033; Nov. 18.
- Galter, William R., Chicago, Ill. Camera spring device. 2,419,715; Apr. 29.
- Galuska, Stanley, Chicago, Ill. Window sash retaining device. 2,423,495; July 8.
- Galvin Manufacturing Corporation, assignee: *See—*  
Holthouse, Harry B.  
Lowell, Rudolph J.  
Mitchell, Donald H.
- Galyon, Sidney R.: *See—*  
Fulton, Weston M., and Galyon.
- Gamache, Homer, assignor to Acme Metal Goods Manufacturing Co., Newark, N. J. Pocket clipping key holder. 2,416,477; Feb. 25.
- Gambitta, Alfred F., Jersey City, N. J., assignor to Phelps Dodge Copper Products Corporation, Dover, Del. Gas filled cable system. 2,432,568; Dec. 16.
- Gamble Brothers, assignee: *See—*  
Dosker, Cornelius D.
- Gamble, Slade L., assignor to Lindberg Engineering Company, Chicago, Ill. Fluid mixing device. 2,424,654; July 29.
- Gambler, Charles R., Houston, Pa. Sanitary garbage can. 2,425,612; Aug. 12.
- Gamer, Israel A., Boston, Mass. Made-up bow tie. 2,417,159; Mar. 11.
- Gamer, Israel A., Newton, Mass. Made-up bow tie. 2,428,663; Oct. 7.
- Gammack, James, assignor to The Glenn L. Martin Company, Middle River, Md. Flexible defroster. 2,415,740; Feb. 11.
- Gandrud, Gilman P., Glenwood, Minn. Receptacle anchor. 2,430,672; Nov. 11.
- Gannett, Danforth K., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic wire storage unit. 2,421,750; June 10.
- Gano, Harlan S., Wilkinsburg, and G. J. Freese, East McKeesport, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,416,170; Feb. 18.
- Gans, David M., New York, N. Y., and J. R. Abrams, Jersey City, N. J., assignors to Interchemical Corporation, New York, N. Y. Textile decorating compositions. 2,416,620; Feb. 25.
- Ganson, Howard H., assignor to Hygeia Nursing Bottle Company, Inc., Buffalo, N. Y. Nursing bottle. 2,426,927; Sept. 2.
- Gantenbein, Andreas, and J. Jäckle, Zurich, assignors to Maschinenfabrik Oerlikon, Zurich-Oerlikon, Switzerland. Appliance for closing a switch for parallel connection of two networks or a network with incoming generator. 2,424,447; July 22.
- Gantner, William A., Wilkinsburg, assignor to The American Brake Company, Swissvale, Pa. Brake rigging. 2,427,956; Sept. 23.
- Ganzer, John H., assignor to The Coolerator Company, Duluth, Minn. Spaced wall heat insulated refrigerator cabinet. 2,427,048; Sept. 9.
- Garancher, Marcel, assignor to Stewart-Warner Corporation, Chicago, Ill. Jack and jiggle jack. 2,415,684; Feb. 11.
- Garand, John C., Springfield, Mass. Cheek rest for firearms. 2,432,519; Dec. 16.
- Garbarini, Robert F., Woodside, and W. G. Wing, West Hempstead, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Apparatus for directing guns. 2,423,831; July 15.
- Garbarino, Frank, Waltham, assignor to Lewis-Shepard Company, Watertown, Mass. Two-wheel warehouse truck. 2,423,065; June 24.
- Garber, Richard L., assignee: *See—*  
Sorensen, Neils A.
- Garberding, Waldo L., Chicago, Ill. Separable electrical connector. 2,433,358; Dec. 30.
- Garbo, Paul W., Brooklyn, N. Y. Treatment of nicotine acid derivatives. 2,415,632; Feb. 11.
- Garbo, Paul W., Brooklyn, N. Y. Manufacture of nicotineamide. 2,427,400; Sept. 16.
- Garbo, Paul W., Chicago, Ill. Amidization of pyridine monocarboxylic acids. 2,419,831; Apr. 29.
- Garcia, Henry and L., Salinas, Calif. Bridle bit. 2,425,930; Aug. 19.
- Garcia, Leslie: *See—*  
Garcia, Henry and L.
- Gard, John: *See—*  
Peterson, Alfred J. A., and Gard.
- Garday, Louis J., Glenview, assignor to Aircraft & Diesel Equipment Corporation, Chicago, Ill. Fuel injection pump. 2,414,518; Jan. 21.
- Gardella, Lena, Brooklyn, N. Y. Slip. 2,432,743; Dec. 16.
- Garden, John S., Basking Ridge, N. J., assignor to General Motors Corporation, Detroit, Mich. Separator loading machine. 2,416,578; Feb. 25.
- Gardina, Frank A.: *See—*  
Golightly, William J., and Gardina.
- Gardiner, Duncan B., assignor to Vickers Incorporated, Detroit, Mich. Equalizer valve cartridge assembly. 2,430,811; Nov. 11.
- Gardiner, Edward M.: *See—*  
McDowell, Earle B., and Gardiner.
- Gardiner, William C., Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Electrolytic cells. 2,419,832; Apr. 29.
- Gardiner, Winston A.: *See—*  
Lawshe, Walter D., and Gardiner.
- Gardner, Charles E., Queens, assignor to Gardner Industrial Associates, Inc., New York, N. Y. Flexible article cover. 2,432,662; Dec. 16.
- Gardner, Daniel, New York, N. Y. Production of pure tellurium. 2,414,294; Jan. 14.
- Gardner, Daniel, New York, N. Y. Purification of selenium. 2,414,295; Jan. 14.
- Gardner, Hyman, Brooklyn, N. Y. Single hand operated card punch. 2,433,110; Dec. 23.
- Gardner Industrial Association, Inc., assignee: *See—*  
Gardner, Charles E.
- Gardner, Irvine C., Chevy Chase, Md. Manufacturing gages. 2,423,094; July 1.
- Gardner, Irvine C., Chevy Chase, Md. Wide angle binocular telescope and range finder. 2,428,797; Oct. 14.
- Garner, Lloyd P., Newark, and W. K. Bricker, Essex Fells, N. J., assignors to Radio Corporation of America. Exhausting and cold weld sealing. 2,427,597; Sept. 16.
- Gardner, Louis W., assignor to Gulf Research & Development Company, Pittsburgh, Pa. Geophone polarity indicator. 2,423,970; July 15.
- Gardner Machine Company, assignee: *See—*  
Gardner, Ralph D., and Bohm.
- Gardner, Paul N., Bethesda, Md. Determining the viscosities of liquids. 2,414,864; Jan. 28.
- Gardner, Ralph D., and J. Bohm, Beloit, Wis., assignors to Gardner Machine Company, South Beloit, Ill. Grinding machine. 2,424,448; July 22.
- Gardner-Richardson Company, The, assignee: *See—*  
Buffenbarger, James F.  
Ringle, William A.  
Von Sydow, Rudolph W.
- Gardner, William J., Cleveland Heights, Ohio, assignor to Cleveland Clinic Foundation. Surgical dressing. 2,421,193; May 27.
- Garfield, Edward L., Scarsdale, assignor to Ice Air Conditioning Co., Inc., New York, N. Y. Assembling headers and tubes. 2,423,697; July 8.



- Gargan, Joseph, Brookline, assignor of one-half to Walter T. Miller, Manchester, Mass. Making pieced sole blanks. 2,431,170; Nov. 18.
- Gargarino, Frank : *See*—  
Shepard, Frederick J., Jr., and Gargarino.
- Garibay, Joseph U., Montebello, Calif. Welding tool. 2,416,872; Mar. 4.
- Garlinski, Michael, Thorold, Ontario, Canada. Window screen and ventilator. 2,414,592; Jan. 21.
- Garner, Herman H., assignee : *See*—  
Russell, Kenneth F.
- Garner, Philip J. : *See*—  
Myles, James R., and Garner.
- Garner, Robert V., Westwood, assignor to Bird & Son, Inc., East Walpole, Mass. Covering for floors. 2,432,987; Dec. 23.
- Garnett, Arthur T., and E. E. Langford, London, England. Collapsible travel case. 2,425,035; Aug. 5.
- Garol, John E., Los Angeles, Calif., assignor to The Texas Company, New York, N. Y. Graveling of wells. 2,418,343; Apr. 1.
- Garreau, Armand J., Newport, R. I. Apparatus for forming wire coils. 2,431,928; Dec. 2.
- Garrett Corporation, Airesearch Manufacturing Company division, The, assignee : *See*—  
Burns, Bruce.  
Ellis, Herbert B.  
Gill, George H.  
Jensen, Raymond W.  
Kemper, James M.  
Moore, Henry G.  
Morris, Charles O.  
Rosales, Joseph G.  
Whann, Jesse P.
- Garrett, J. Hubert, Culver City, Calif. Book binding device. 2,422,780; June 24.
- Garrett, Robert C. : *See*—  
Stewart, Meredith M., Garrett, and Sensel.
- Garric, Jean, assignor to Societe Industrielle De Boneterie, Troyes, France. Device for the manufacture of stockings. 2,420,821; May 20.
- Garrigan, William A., Beaumont, Tex. Repair device for flush tanks. 2,430,765; Nov. 11.
- Garrison, Allen D., Houston, Tex., assignor to Texaco Development Corporation, New York, N. Y. Catalytic conversion of hydrocarbons. 2,425,463; Aug. 12.
- Garrison, Allen D., Houston, Tex., assignor to Texaco Development Corporation, New York, N. Y. Completing wells. 2,427,848; Sept. 23.
- Garrison, John R. : *See*—  
Garrison, Ralph P., and J. R.
- Garrison, John R. and R. P., assignor to Garrison Machine Works, Inc., Dayton, Ohio. Gear chuck. 2,417,409; Mar. 18.
- Garrison, Kenton K. : *See*—  
Bokovoy, Samuel A., and Garrison.
- Garrison Machine Works, Inc., assignee : *See*—  
Garrison, John R. and R. P.
- Garrison Machinery Works, Inc., assignee : *See*—  
Garrison, Ralph P., and J. R.
- Garrison, Nelson E., assignor to J. Shapiro, Baltimore, Md. Match-book making machine. 2,415,204; Feb. 4.
- Garrison, Ralph P. : *See*—  
Garrison, John R. and R. P.
- Garrison, Ralph P. and J. R., assignors to Garrison Machine Works, Inc., Dayton, Ohio. Range finder. 2,430,009; Nov. 4.
- Garritson, Charles J., Long Island City, N. Y. All-flex pocket razor. 2,429,352; Oct. 21.
- Garside, John I., West Boylston, assignor to Norton Company, Worcester, Mass. Grinding wheel feeding mechanism. 2,419,133; Apr. 15.
- Garstang, William W., assignor to Electronic Laboratories, Incorporated, Indianapolis, Ind. Illuminating unit. 2,433,690; Dec. 30.
- Gartin, Elmer G., Claremont, N. H., assignor to Joy Manufacturing Company. Adjustable support. 2,415,205; Feb. 4.
- Gartmann, Hans, assignor to De Laval Steam Turbine Company, Trenton, N. J. Circulating pump sealing system. 2,419,681; Apr. 29.
- Gartner, John, Hasbrouck Heights, assignor to Bendix Aviation Corporation, Teterboro, N. J. Armature mounting for carbon pile voltage regulators. 2,419,491; Apr. 22.
- Gartner, John, Hasbrouck Heights, assignor to Bendix Aviation Corporation, Teterboro, N. J. Coil winding method. 2,426,090; Aug. 19.
- Garton, Jesse, Hawthorn, Victoria, Australia. Manually operated lever for bending and shearing metal rods. 2,424,024; July 15.
- Garvey, Arthur : *See*—  
Garvey, James, A., and H. M.
- Garvey, Benjamin S., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Composite product and making the same. 2,418,025; Mar. 25.
- Garvey, Horace M. : *See*—  
Garvey, James, A., and H. M.
- Garvey, James, A., and H. M., Vancouver, British Columbia, Canada. Manufacture of soap. 2,414,097; Jan. 14.
- Garvey, James, A., and H. M., Vancouver, British Columbia, Canada. Soap. 2,414,098; Jan. 14.
- Garvey, Thomas H., Natick, and P. V. Scally, Randolph, Mass. Air heating and humidifying apparatus. 2,424,927; July 29.
- Garwood, Charles B., Linthicum Heights, assignor to Carr-Lowrey Glass Company, Baltimore, Md. Grinding glass bottle stoppers. 2,427,849; Sept. 23.
- Gary, Hartwell H., Jr., Norfolk, Va. Apparatus for drawing flat metal blanks into shells. 2,418,874; Apr. 15.
- Gary, Hartwell H., Norfolk, Va. Screw top jar wrench. 2,431,550; Nov. 25.
- Gary, Thomas, Jr. : *See*—  
Levey, Harold A., and Gary.
- Gary, Wright W., assignor to Filtril Corporation, Los Angeles, Calif. Portable food dehydrator employing hot air and a desiccant. 2,414,642; Jan. 21.
- Gary, Wright W., assignor to Filtril Corporation, Los Angeles, Calif. Desiccant paper. 2,417,924; Mar. 25.
- Gary, Wright W., assignor to Filtril Corporation, Los Angeles, Calif. Producing catalytic clay pellets. 2,423,309; July 1.
- Gary, Wright W., Los Angeles, Calif., assignor to The M. W. Kellogg Company, Jersey City, N. J. Catalytic alkylation of iso-paraffin with olefins. 2,428,417; Oct. 7.
- Gary, Wright W., assignor to Filtril Corporation, Los Angeles, Calif. Ammoniating an acid treated clay. 2,430,289; Nov. 4.
- Gary, Wright W., assignor to Filtril Corporation, Los Angeles, Calif. Catalytic cracking process with suspended catalyst. 2,432,744; Dec. 16.
- Gary, Wright W., assignor to Filtril Corporation, Los Angeles, Calif. Catalytic conversion of hydrocarbons. 2,432,745; Dec. 16.
- Gary, Wright W., Los Angeles, and R. B. Secor, South Gate, assignors to Filtril Corporation, Los Angeles, Calif. Catalytic cracking of petroleum hydrocarbons. 2,432,746; Dec. 16.
- Gasche, Fred, Titusville, Pa. Closure for high-pressure vessels. 2,424,449; July 22.
- Gaschnitz, Joseph A., Munson, Alberta, Canada. Heater for water-cooled engines. 2,423,378; July 1.
- Gascoigne, George H., Wokingham, and J. A. Kingston, Tilehurst, Reading, England. Agricultural implement. 2,419,015; Apr. 15.
- Gaskouitz, Walter S., Chicago, Ill. Electric lighting novelty. 2,430,607; Nov. 11.
- Gas Light and Coke Company, The, assignee : *See*—  
Hopton, Gerald U.
- Gas Machinery Company, The, assignee : *See*—  
Stokey, Kenneth W.
- Gaspro, Dominick G. : *See*—  
Gaspro, Sam F. and D. G.
- Gaspro, Sam F. and D. G., Portland, Oreg. Weed remover. 2,420,944; May 20.
- Gasser, Emil B. : *See*—  
Brill, William E., and Gasser.
- Gasser, Emil R., assignor to Farrel-Birmingham Company, Inc., Buffalo, N. Y. Lapping gears. 2,423,593; July 8.
- Gasser, Frank P., Beverly Farms, Mass., assignor to H. M. Burt and G. H. Burt, doing business as The Lloyd Products Company, Providence, R. I. Electric switch. 2,433,753; Dec. 30.
- Gassert, Ethel M., Indianapolis, Ind. Blood count equipment. 2,415,480; Feb. 11.
- Gasson, Edward J. : *See*—  
Peters, Rudolph A., Stocken, Thompson, Woodward, Millidge, and Gasson.
- Gates, Edward M., St. Louis, Mo. Piston. 2,426,732; Sept. 2.
- Gates, John I., Pasadena, assignor to Kelco Company, San Diego, Calif. Gel-forming algin composition and method. 2,420,308; May 13.
- Gates Rubber Company, assignee : *See*—  
Claus, Clyde R.  
Nassimbene, Ernest.
- Gates Rubber Company, The, assignee : *See*—  
Bell, Charles J.  
Brovsky, Joseph F.  
Johnson, Harold J.  
Steinke, Theodore W.  
Yelm, Charles W.
- Gatter, Louis H., St. Louis, Mo. Window and sash unit or assembly. 2,429,054; Oct. 14.
- Gätzi, Karl : *See*—  
Martin, Henry, Häfiger, and Gätzi.
- Gaudenzi, Arthur, Wettingen, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Ignition device for electric discharge apparatus. 2,431,637; Nov. 25.
- Gaudenzi, Arthur, Wettingen, assignor to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Turbine blade. 2,431,660; Nov. 25.
- Gaudenzi, Arthur, Wettingen, and E. Kern, Ennetbaden, assignors to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Composite insulating bushing. 2,431,474; Nov. 25.
- Gaudet, Leandre J. : *See*—  
Lapointe, Louis E., and Gaudet.
- Gaudette, Henry V., Los Angeles, Calif. Adjustable folding table. 2,432,192; Dec. 9.
- Gaudino, Orlando A., Butler, Pa. Disappearing hanger hook. 2,425,527; Aug. 12.



- Gaugler, Richard S., assignor to General Motors Corporation, Dayton, Ohio. Generator arrangement for absorption refrigerating systems. 2,422,401; June 17.
- Gauldin, Robert A., Houma, La. Mailbox. 2,431,171; Nov. 18.
- Gausch, Kenneth F., assignor to Aviation Equipment Corp., St. Louis, Mo. Landing light. 2,431,240; Nov. 18.
- Gauthier, Marcel C., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Making cores of magnetic material for electromagnetic coils. 2,416,989; Mar. 4.
- Gauvreau, Victor, assignee: *See—*  
Broders, Claude E.
- Gay, Frank J., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md. Tube mill and operating same, including discharging. 2,416,746; Mar. 4.
- Gay, Patrick, Brooklyn, N. Y. Drainpipe cleaner. 2,426,265; Aug. 26.
- Gaw-O'Hara Envelope Company, assignee: *See—*  
Hopkins, Alfred H.
- Gay, Godwin R. F.: *See—*  
Breeze, George E., and Gay.
- Gay, Harry S., Mount Gay, and T. V. Maynard, Williamson, W. Va. Timber setting machine. Re. 22,927; Oct. 14.
- Gay, Maurice J., Villeurbanne, France; vested in the Attorney General of the United States. Circuit breaker with blowing device. 2,429,311; Oct. 21.
- Gay, Paul S., assignor to Wilcox-Gay Corporation, Charlotte, Mich. Frequency selector and calibrator. 2,418,972; Apr. 15.
- Gayer, John D., Springfield, Pa., assignor to General Electric Company. Manual operating device for electric circuit breakers. 2,418,704; Apr. 8.
- Gayer, John D., and E. J. Frank, Springfield, and A. C. Boisseau, Lansdowne, Pa., assignors to General Electric Company. Electric circuit interrupter. 2,419,447; Apr. 22.
- Gaylord Container Corporation, assignee: *See—*  
Fish, Bernard, Taylor and Van Cleef.
- Gaylord Products, Incorporated, assignee: *See—*  
Norin, Allan A., and Reynolds.
- Reynolds, Frank D.
- Gaylord, Roland C., Newport News, Va. Combination toolholder and steady arm. 2,420,945; May 20.
- Gaynor, James W.: *See—*  
Loane, Clarence M., and Gaynor.
- Gazda, Antoine, Providence, R. I. Humidifier for carburetors. 2,422,402; June 17.
- Gazlay, Paul M., Evanston, assignor to Continental Music Company, Chicago, Ill. Cabinet for sound-reproducing devices. 2,426,928; Sept. 2.
- Gazulas, Jack, assignor of one-half to M. Marin, Chicago, Ill. Expandable honing tool. 2,419,067; Apr. 15.
- Gear Grinding Machine Company, The, assignee: *See—*  
Blair, Harold J.  
Davis, Carl K.  
Gruenberg, Ivor J.  
Miller, Fred F., Jr.  
Mustonen, Reino H.
- Gearon, Edward: *See—*  
Gearon, John A. and E.
- Gearon, James J., Chicago, Ill. Inflatable, collapsible, military pontoon bridge. 2,423,832; July 15.
- Gearon, John A. and E., Chicago, Ill. Signal flare magazine and caster. 2,421,491; June 3.
- Gearon, John A. and E., Chicago, Ill. Signal flare. 2,422,403; June 17.
- Geary, Francis H., Spokane, Wash. Construction stage. 2,426,825; Sept. 2.
- Gebhart, Arthur I., Union, and J. Ross, Ramsey, assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Preparation of water-insoluble organic salts. 2,417,071; Mar. 11.
- Gebrüder Buhler: *See—*  
Meyer, Fritz.
- Geddes, John W.: *See—*  
Porter, Henry W., and Geddes.
- Geddings, Saint J., West Columbia, S. C. Feeler controlled filling replenishing mechanism. 2,420,473; May 13.
- Gedstad, Rudolph, Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif. Auxiliary decelerator for internal-combustion engines. 2,429,714; Oct. 28.
- Gee, Albert H., assignor, by mesne assignments, to William R. Warner & Co., Inc., New York, N. Y. Combination drip stopper. 2,426,733; Sept. 2.
- Geen, Henry C., assignor to Haskelite Manufacturing Corporation, Grand Rapids, Mich. Adhesive tape and use in plywood. 2,420,366; May 13.
- Geer, Hobart S., Jackson Heights, assignor to The Patent Scaffolding Co., Inc., Long Island City, N. Y. Scaffolding device. 2,433,692; Dec. 30.
- Geer, Norma E., Los Angeles, Calif., and L. W. Schatz, South Tacoma, Wash., assignors to Celanese Corporation of America. Fluffing up artificial staple fibers. 2,420,367; May 13.
- Geer, Oscar D., Monroe, Mich. Life net. 2,430,714; Nov. 11.
- Geertsens, Nelson, Chicago, Ill., assignor to American Can Company, New York, N. Y. Producing can bodies. 2,430,010; Nov. 4.
- Gegauf, Fritz, assignor to Fritz Gegauf's Söhne Aktiengesellschaft, Steckborn, Switzerland. Sewing machine attachment. 2,424,025; July 15.
- Gegauf's Fritz, Söhne Aktiengesellschaft, assignee: *See—*  
Gegauf, Fritz.
- Gegner, Paul J.: *See—*  
Pechukas, Alphonse, and Gegner.
- Gegner, Paul J., Barberton, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Caustic resistant coatings. 2,424,813; July 29.
- Gehle, William A.: *See—*  
Karls, Charles B., Benham, and Gehle.
- Gehman, John B., Noblesville, Ind., assignor to Radio Corporation of America. Switching method and system. 2,427,850; Sept. 23.
- Gehres, Fay: *See—*  
Kees, Harvey, and Gehres.
- Gehres, Hewitt A., assignor to Cooper-Bessemer Corporation, Mount Vernon, Ohio. Fuel valve mechanism. 2,429,932; Oct. 28.
- Gehres, Hewitt A., assignor to Cooper-Bessemer Corporation, Mount Vernon, Ohio. Two-cycle gas engine. 2,433,111; Dec. 23.
- Gehrmann, Hans: *See—*  
O'Brien, Frank J., Jr., and Gehrmann.
- Geiger, Aaron, Brooklyn, N. Y. Smoking pipe. 2,417,978; Mar. 25.
- Geiger, Charles F., Metuchen, N. J., assignor to The Carborundum Company, Niagara Falls, N. Y. Refractory and making same. 2,431,327; Nov. 25.
- Geiger, David F., Los Angeles, assignor of one-half to G. C. True, Long Beach, Calif. Underwater torch lighter. 2,418,631; Apr. 8.
- Geiger, David F., and G. C. True, Long Beach, Calif. Valved pipe coupling. 2,417,483; Mar. 18.
- Geiger, George M., Mount Gilead, Ohio, assignor to H-P-M Development Corporation, Wilmington, Del. Hydraulic operating circuit for machine tools and the like. 2,432,305; Dec. 9.
- Geiger, Lyle M., Edgewood, and C. N. Beck, assignors to The Neville Company, Pittsburgh 25, Pa. Producing phenothiazine. 2,433,658; Dec. 30.
- Geiger, Walter J.: *See—*  
Blake, Harold D., and Geiger.
- Geiges, Alexander J., East Orange, assignor to The Baker Castor Oil Company, Jersey City, N. J. Emulsifying polyvinyl butyral and a solvent plasticizer in water. 2,431,800; Dec. 2.
- Geigy Company, Inc., assignee: *See—*  
Skeuse, Thomas, Jr.
- Geigy, J. R., A. G., assignee: *See—*  
Bindler, Jakob, and Schläpfer.  
Conzetti, Achille, Schetty, and Schmid.  
Conzetti, Achille, and Schmid.  
Krebsler, Adolf, Bossard, and Hindermann.  
Martin, Henry and Gysin.  
Martin, Henry, and Häfliger.  
Martin, Henry, Häfliger, and Gätzli.  
Martin, Henry, Häfliger, and Neracher.  
Martin, Henry, and Hirt.  
Martin, Henry, and Margot.  
Martin, Henry, and Neracher.  
Martin, Henry, Zaeslin, Hirt, and Staub.  
Müller, Paul.
- Müller, Paul, and Schindler.
- Geimer, William J., Minneapolis, Minn., assignor to Bemis Bros. Bag Company, St. Louis, Mo. Bag. 2,416,747; Mar. 4.
- Geirnaert, René L. R. R., Brussels, Belgium. Mechanism for the advancement of the carriage of typewriters and the like. 2,421,930; June 10.
- Geiselman, Ralph A., and J. P. Houck, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system. 2,422,539; June 17.
- Geiser, Robert H., Waynesboro, Pa. Apparatus for feeding solution to water comprising receptacles having vertically adjustable chambers connected therewith. 2,423,379; July 1.
- Geist, William J., St. Louis, Mo., assignor to Continental Can Company, Inc., New York, N. Y. Machine for die curling can end flanges. 2,433,040; Dec. 23.
- Geist, William J., Richmond Heights, Mo., assignor to Continental Can Company, Inc., New York, N. Y. Seaming machine. 2,433,691; Dec. 30.
- Geistwhite, John M.: *See—*  
Zink, William L., Hauswirth, and Geistwhite.
- Gelatin Products Corporation, assignee: *See—*  
Fox, Sereck H., and Opferman.  
Scherer, Robert P.
- Gelbman, Louis, Yonkers, N. Y. Lightweight concrete aggregate. 2,414,734; Jan. 21.
- Gelbman, Louis, Yonkers, N. Y. Brick or block molding machine. 2,431,034; Nov. 18.
- Geldhof, Peter E., and L. Ringer, assignors to Nineteen Hundred Corporation, St. Joseph, Mich. Drain mechanism. 2,414,196; Jan. 14.
- Geller, Isaac, Portland, Oreg. Key holder plate. 2,421,492; June 3.
- Geller, Joseph J., and C. E. Swanson, Chicago, Ill. Cigarette receptacle. 2,422,478; June 17.
- Gellman Manufacturing Company, assignee: *See—*  
Petskeyes, Charles H.
- Gem City Pattern Co., assignee: *See—*  
Fleer, Harry H.
- Gemberling, Cameron H., South Bend, Ind., assignor to The Oliver Corporation. Plow. 2,428,871; Oct. 14.



Gemmel, Wilbur R., Wheaton, assignor to Teletype Corporation, Chicago, Ill. Telegraph system and apparatus for selective single or double channel operation. 2,418,928; Apr. 15.

Genella, Louis J., Kenner, assignor of one-half to T. Woodward, Jr., New Orleans, La. Boiler construction. 2,415,685; Feb. 11.

General American Transportation Corporation, assignee: *See—*

Dunn, William J., and Richolt.

General Aniline & Film Corporation, assignee: *See—*

Anish, Alfred W.

Anish, Alfred W., and Hensley.

Asinger, Friedrich.

Balle, Gerhard, Rosenbach, and Orthner.

Barnes, Carl E.

Bavley, Abraham.

Duerr, Herman H., Morreall, and Harsh.

Freudenberg, Werner.

Grimmel, Harry W., and Guenther.

Haff, Richard M.

Harriman, Benjamin R.

Hassler, Gerald L.

Heimbach, Newton.

Jacobson, Carl H.

Kaszuba, Frank J.

Lessler, Lew W.

Max, Fritz, and Randall.

Morgan, Jack F.

Mueller, Fritz W. H.

Raymond, George G.

Reichel, Maximilian K.

Reppe, Walter, Schuster, and Weiss.

Roehrl, Bruno C.

Sanders, Herbert L.

Schaefer, Arthur E.

Schildknecht, Calvin E.

Schmidt, Willy A., and Sprung.

Schoen, André.

Semerau, Walter J.

Straley, James M.

Sweet, Monroe H.

Trump, Frederick O.

Tulagin, Vsevolod.

Von Glahn, William H., and Reichel.

Von Glahn, William H., and Stanley.

Waldorf, Leon M.

Wolthuis, Enno, and Lawler.

General Baking Company, assignee: *See—*

Grimm, William C., and Linneman.

Olsen, Thomas S.

General Cable Corporation, assignee: *See—*

Canfield, Charles M.

Eichinger, Philippe E. H.

Foster, William P.

Kauth, Henry J.

Montamat, Raymond A.

General Chemical Company, assignee: *See—*

Allen, Walter S.

Calfee, John D., and Smith.

Knapp, William A.

Knapp, William A., and Heuser.

Neelley, Julius W.

Otto, Julian A.

Otto, Julian A., and Anderson.

Sieron, August T.

Stephenson, Richard, and Watson.

Young, De Walt S., and Pearson.

General Controls Co., assignee: *See—*

Buescher, Wilbert C.

Cunningham, Lewis L.

Ray, William A.

General Die-Stamping Tool Company, assignee: *See—*

Brennen, Ronald F.

General Electric Company, assignee: *See—*

Abbott, Royal K., Jr., and Kern.

Adams, Roy L., and Zickrick.

Adamson, Arthur P.

Alexanderson, Ernst F. W.

Alexanderson, Ernst F. W., Edwards, and Bowman.

Alexanderson, Ernst F. W., and Mittag.

Alger, Philip L.

Alvira, Alfonso.

Anderson, Marshall.

Augier, Jean A.

Bachman, Charles H.

Bachman, Charles H., and Ramo.

Bachman, Charles H., and Schaefer.

Bachman, William S.

Bailey, Carl A.

Bailey, Francis M.

Baker, John H., and Schwarzhaupt.

Bakke, Hans A.

Ballard, Robert G.

Bangert, Charles, Jr.

Bany, Herman, and Bateman.

Barcus, George L., and Boisseau.

Bariñi, Herbert F.

Bartelink, Everhard H. B.

Barwick, Emerson C.

Baskerville, Ralph J., and Bush.

Bazley, Carl E.

Becker, Howard I.

Bedford, Burnice D.

General Electric Company, assignee: *See—Continued.*

Beggs, James E.

Bennett, Ralph S.

Bennett, Robert M.

Bergman, Sven R.

Berkoff, Seymour.

Bilodeau, Wilfred J.

Bischoff, Alfred F.

Bishop, Nathaniel.

Blake, Harold D., and Geiger.

Blewett, John P.

Bondley, Ralph J.

Boyajian, Aram.

Breeding, Harold A.

Brian, William S.

Brodie, Ruthford E.

Broverman, Michael.

Brown, George M.

Burgess, Neil.

Camilli, Guglielmo, and Penvenne.

Campbell, James R.

Campbell, James R., and Swenson.

Campbell, John H.

Carlson, Frank E.

Carriere, Cecil A.

Cartun, Paul O.

Casler, Adrien F., and Salo.

Civkin, Victor.

Clark, Earl W.

Clark, Frank M.

Coe, Reginald T., Robinson, and Welch.

Cooper, Benjamin.

Cox, Harold Ernest, and Wilcox.

Cox, Ralph E.

Coykendall, John C.

Crater, Wilbur D.

Crever, Frederick E.

Crosby, Howard M.

Crowley, George C.

D'Alelio, Gaetano F.

D'Alelio, Gaetano F., and Underwood.

Dalton, William.

Dayton, Carl S.

Deerhake, Franklin M.

De Walt, Kenneth C.

Dome, Robert B.

Downie, John W.

Dunham, George W.

Durst, Paul H.

Duryee, Jerome C.

Eaton, John.

Edwards, Martin A.

Edwards, Martin A., and Ogle.

Edwards, Martin A., Ogle, and Hoyt.

Embry, Alvin L.

Evans, Bernard C.

Fairman, Francis E., Jr.

Faus, Harold T.

Finlayson, Frank E.

Fisher, Alec.

Fisher, Benjamin J., Jr.

Fiske, Milan D.

Fiske, Milan D., and Suits.

Fitch, William A.

Fitzmorris, Stanley R.

Fonda, Gorton R.

Footo, Alton G.

Foulke, Ted E.

Frank, Edward J., and Fitzpatrick.

Frisch, Wayne R., and Crew.

Froelich, Herman C.

Fulton, John W., and Footo.

Fyler, George W.

Gabor, Dennis.

Gayer, John D.

Gayer, John D., Frank, and Boisseau.

Gethmann, Richard B.

Girvin, Fred.

Goff, Robert W.

Gordon, Newell T.

Godet, Sidney.

Granfield, John C.

Greiner, Alfred.

Grimshaw, Charles S.

Groot, Robert W.

Gurewitsch, Anatole M.

Hall, Chester I.

Hallstrand, Eric A.

Hansen, Albert, Jr., Jewell, Johnson, and Porter.

Harbison, George C.

Harkness, Joseph R., and Robinson.

Harlow, Winton G.

Hausler, George M.

Hausz, Walter, and Alvira.

Haven, Edward G.

Hawes, Bradford K.

Haynes, Howard, and Ickis.

Hermann, Benjamin R.

Heumann, Gerhart W.

Hoffmann, Robert J.

Hollingsworth, Guilford L.

Holmes, Lowell L., Jr.

Horstkotte, Edward H.



General Electric Company, assignee: *See*—Continued.

Howard, Alan.  
Hoyt, Gerald A.  
Hugin, Adolph C.  
Huntley, Charles N., and Campbell.  
Hurd, Dallas T.  
Isaac, Elmer B., and Rippel.  
Jackson, Frederick R., Jr.  
Jarvis, Samuel F.  
Jenkins, Henry G., McKeag, and Ranby.  
Jensen, Richard C., and Keister.  
Jewell, Richard G.  
Johnson, Frithiof V.  
Johnson, Wallace M.  
Jones, John L.  
Jones, William L., Jr.  
Jordan, John P.  
Kalb, John W.  
Keister, James E.  
Kenefake, Edwin W.  
Kern, Edward A., and Miller.  
Kilbourne, Charles E.  
Kingdon, Kenneth H., and Lawton.  
Kingsmill, Robert E.  
Kinman, Thomas H., and Tucker.  
Kline, Halsey W.  
Kronmiller, Charles W.  
Kuehni, Hans P.  
Lafferty, James M.  
Lawton, Elliott J.  
Lemmers, Eugene.  
Light, Philip H.  
Lincks, George F.  
Lincks, George F., and Jensen.  
Lindemann, Charles A.  
Livingston, Orrin W.  
Lopez, Francisco G.  
Lord, Harold W.  
Louden, Harry L.  
Lundstrom, John V.  
Mackay, Kenneth M., and Sims.  
Magdsick, Henry H.  
Malloy, John J.  
March, Laurel A.  
Martin, Harold M.  
Martin, Sidney L., and Bevington.  
Mason, Charles R., and Burton.  
Maxwell, Donald E.  
Maxwell, Howard.  
McAninch, Odell G.  
McArthur, Elmer D.  
McArthur, Elmer D., and Bondley.  
McClain, Joseph W.  
McConnell, Andrew J.  
McCune, Francis K.  
McDonald, James D.  
McDowell, Earle B., and Gardiner.  
McIvers, William K.  
McNairy, Jacob W., Rosenkrans and Coombs.  
Meahl, Harry R.  
Mendelsohn, Lewis I.  
Middel, Hendrik D.  
Miller, Harry F., and Flowers.  
Miller, Harry F., and Foster.  
Minnecci, Salvatore.  
Mittermaier, Armin F.  
Moe, Robert E.  
Moe, William W.  
Moreton, Stuart D., and Shaffer.  
Morrill, Wayne J.  
Morris, Charles W.  
Morris, William C.  
Moyer, Elmo E., and Eldred.  
Mueller, Adolf G.  
Mulvey, Bernard.  
Muntz, William E., and Wilcox.  
Navias, Louis, and Green.  
Nelson, Richard B.  
Newell, Heber L.  
Noel, Edward B.  
Nordstrum, Lauren D.  
Norgaard, Donald E.  
Olsen, Arthur A.  
Paluev, Konstantin K.  
Petch, Thomas H., Jr., and Liddiard.  
Peters, Leo R.  
Phillips, Chester L.  
Pipkin, Marvin.  
Potter, Wentworth M.  
Powell, Alric H.  
Powers, James H.  
Prince, David C.  
Rader, Louis T.  
Ramo, Simon.  
Ransley, Charles E., Ryde, and Williams.  
Rich, Theodore A.  
Riddington, Frederick W.  
Ring, Robert C.  
Roberts, Bruce.  
Robinson, Percy W.  
Roedel, George F.  
Safford, Moyer M.  
St. Palley, Zoltan O.  
Sams, James A.

General Electric Company, assignee: *See*—Continued.

Sauer, Robert O.  
Savage, Charles F.  
Schmidt, August, Jr.  
Schmitz, Anton W.  
Schneider, Fred B.  
Scott, Donald W.  
Seaman, Joseph W.  
Sear, Arthur W.  
Settle, Joseph F.  
Shaffer, Paul B.  
Sheppard, Raymond.  
Short, Thomas T.  
Shuler, Sanford A., Jr.  
Sinks, Allen T.  
Sittner, George H.  
Smith, Cleveland S., Jr., and Seder.  
Smith, Sidney R., Jr.  
Spiro, Benjamin E.  
Stanworth, John E.  
Stephens, Howard O.  
Stone, Joseph E., and Adams.  
Strang, Harold E., and Powell.  
Stratton, Jerry L.  
Streid, Dale D.  
Stempel, Edward L., Beggs, and Chalberg.  
Stuart, Raymond H.  
Suits, Chauncey G.  
Sutherland, James R.  
Talbot, Curtis G.  
Tangeman, William H., and Campbell.  
Thielemann, Rudolf H.  
Thiess, Ludwig E.  
Thomas, Charles A.  
Thumim, Carl, and Boisseau.  
Tillman, John E.  
Townsend, Mark A.  
Treanor, Edward D.  
Underwood, James W.  
Van Billiard, Lewis H.  
Von Hoorn, Fred G.  
Wall, Alexander C.  
Walle, Ludwig S.  
Ware, David H.  
Warner, Donald F.  
Watrobski, Raymond J.  
Weaver, Virgil L.  
Weed, James M.  
Weeks, Walter R.  
Welch, Alfred F.  
Welch, Douglas F., and Wilkinson.  
Wendt, Harry C.  
Whinnery, John R.  
White, William C.  
Whyte, Alexander K., and Aldis.  
Wiggin, Rinaldo E., and Swanson.  
Wilbur, Donald A.  
Wilbur, Donald A., and Roberts.  
Wilkinson, Kenneth J. R., Welch, and Clough.  
Williams, Edwin A., and Powell.  
Williams, John R.  
Willis, Clodius H.  
Wilson, Myron S., and Learned.  
Wood, Charles W.  
Woodson, Thomas T.  
Wotring, Gaylord H.  
Wright, Daniel K.  
Wright, George T.  
Wright, James G. E.  
Wrobel, Henry T.  
Yeandle, Ralph S.  
Young, George G.  
Young, William R., and Turner.  
General Electric Company Limited, assignee: *See*—  
Friedlander, Erich.  
General Electric Company Limited, The, assignee: *See*—  
Chirnside, Ralph C., and Dauncey.  
Espley, Dennis C.  
Wren, Louis C.  
General Electric Company, Limited, The, assignee: *See*—  
Jones, Douglas E., Ransley, Ryde, and Williams.  
Ransley, Charles E., Ryde, and Williams.  
General Electric X-Ray Corporation, assignee: *See*—  
Atlee, Zed J.  
Kizaur, Arthur J.  
General Engineering Company (Canada) Limited, as-  
signee: *See*—  
Segsworth, Robert S.  
General Excavator Company, The, assignee: *See*—  
Barnhart, Edgar W.  
General Fireproofing Company, The, assignee: *See*—  
Straubel, Clarence W., and Holbrook.  
General Foods Corporation, assignee: *See*—  
Brown, Fred P.  
Freund, Ernest H., and Mahler.  
Kremers, Roland E.  
Le Vangie, Benjamin M.  
Nelson, Alvin I.  
Stagmeier, Arthur F.  
General Implement Corporation, assignee: *See*—  
Karl, George E.



General Industries Company, The, assignee: *See*—

Carrington, Blake W.  
Hartman, Herbert L.  
Roe, Howard A.

General Latex and Chemical Corporation, assignee: *See*—

Rainard, Leo W.

General Luminescent Corporation, assignee: *See*—

Hultgren, Rudolph C.

General Machinery Corporation, assignee: *See*—

Lewis, Frank M.

General Mills, Inc., assignee: *See*—

Anderson, Helmer.  
Binnington, Donald S.  
Callaghan, Robert W., and Schilling.  
Coffman, John R., and Lewis.  
Dykoski, Walter J.  
Hutchinson, Willis S.  
Jakobsen, Jakob L.  
Schilling, Richard H.

General Motors Corporation, assignee: *See*—

Alexander, Donald F.  
Anderson, Louis A.  
Baker, Malvern S.  
Brams, Stewart L.  
Brill, William E., and Gasser.  
Brittain, Richard J., Jr.  
Britton, Loren D.  
Burkhardt, Thomas E.  
Bychinsky, Wilfred A., Ford, and Kirk.  
Candor, Robert R.  
Carlson, Wilbur L.  
Carson, William D.  
Chilton, William D.  
Clark, Harry F.  
Clark, Kendall.  
Criswell, Carmer.  
Da Roza, Francis G., and Sarafian.  
Davidson, Charles D.  
De Bra, Donald W.  
Dilworth, Thomas E., and Schalla.  
Dinsmore, Albert P.  
Erwin, Wesley S.  
Eshbaugh, Jesse E.  
Ferris, Donald K.  
Fletcher, William A.  
Foster, William J.  
Frederickson, Gustav.  
Garden, John S.  
Gaugler, Richard S.  
Graham, Charles D.  
Greenough, John H.  
Haines, John F.  
Haines, John F., and Martin.  
Hill, Robert H.  
Hill, Robert H., and Claytor.  
Hirsch, Louis M., and Carl.  
Holmes, John R., Winter, and Schultz.  
Hope, Lawrence F.  
Humer, Frank.  
Hutchinson, Philip H.  
Jackson, George W.  
Johnson, Frederick F.  
Jorgensen, Clarence H.  
Jorgensen, Clarence H., and Dermond.  
Kaufman, Daniel L.  
Kelley, Oliver K.  
Kettering, Charles F.  
Kettering, Charles F., and Fischer.  
Koffer, Albert E.  
Kuhn, George.  
Lawson, John W.  
Little, John H., and Rady.  
Lutz, Edward H.  
MacPherson, Earle S.  
Manney, David H.  
Martin, Edward J., Frawley, and Grinstead.  
Martin, Thomas B., and Berninger.  
Martz, William M.  
McDowall, Charles J., and Gerdan.  
Menzies, William E.  
Mick, Douglas E.  
Miller, Verle A., and Lovell.  
Moncher, Frank L.  
Mulligan, Maurice J., and Cramer.  
Neal, Duane R.  
Perrine, Lester E.  
Plexico, Robert S.  
Procissi, Paul S.  
Rady, William J.  
Rady, William J., and Rice.  
Rassweiler, Gerald M., and Erwin.  
Rataiczak, Francis I.  
Reeves, Donald H.  
Reichelderfer, Wilton F.  
Reinsch, Earl W., DeBra, and Kunzog.  
Reynolds, Edward F.  
Riedel, Walter W.  
Rossman, Edwin F.  
Rundquist, Henning W.  
Sampson, Frederick W., and Hyde.  
Sargeant, Walter E., and Hoeper.  
Schaefer, Carl F.  
Schilling, Robert, and Fuchs.  
Schjolin, Hans O.

General Motors Corporation, assignee: *See*—Continued.

Schweller, Edmund F.  
Schweller, Sylvester M.  
Simpson, Emory G.  
Smart, Clarence F.  
Smith, Jasper A.  
Smith, Warren H.  
Spicacci, Attilio R.  
Stevens, Clarence C.  
Swigert, Clarence J.  
Talmage, Charles R.  
Teeter, Wilford H., and Waring.  
Thompson, Earl A.  
Trott, Winfield J.  
Underwood, Arthur F.  
Waring, Charles E., and Gerard.  
Weinthal, Stanley E., and Britcher.  
Wirshing, Ralph J., and Smith.  
Withrow, Lloyd L.  
Wittlinger, Leonard M.  
Wright, Manfred G.

General Panel Corporation, assignee: *See*—

Wachsmann, Konrad L.  
Wachsmann, Konrad L., and Gropius.

General Polarizing Company, The, assignee: *See*—

Dreyer, John F.

General Railway Signal Company, assignee: *See*—

Barker, William M.  
Duffy, George E., Sr.  
Field, Oscar S.  
Field, Oscar S., and Hewes.  
Judge, Thomas J.  
Lavoie, Stephen D.  
O'Brien, John C.  
Preston, Neil D.  
Rees, Frank X.  
Scheg, Marclan A., and Dicke.  
Swanton, Charles L.  
Wight, Sedgwick N., and Field.  
Wight, Sedgwick N., Field, and Coley.

General Refractories Company, assignee: *See*—

Miller, Fred M.  
Miller, Fred M., Shape, McClelland, and Fay.

General Register Corporation, assignee: *See*—

Helsel, Reuben H.

General Spring Corporation, assignee: *See*—

Wood, Joseph K.

General Steel Castings Corporation, assignee: *See*—

Travilla, James C., Jr.

General Steel Products Corporation, assignee: *See*—

Schaefer, George, and Enquist.

General Steel Wares Limited, assignee: *See*—

Cody, Mervin H.

General Timber Service, Inc., assignee: *See*—

MacKenzie, Neal T., and Hall.

General Time Instruments Corporation, assignee: *See*—

Kennedy, Jesse J.

General Tire & Rubber Company, The, assignee: *See*—

Engler, Max.  
Kraft, Herman T.  
Mong, Nicholas.  
O'Neil, William F.  
Schwall, Chester F., Jr.  
Swart, Gilbert H.  
Thiry, Leon F.  
Winkeljohn, Thomas H.

Geneto Corporation, assignee: *See*—

Upton, Frederick P.

Genin, Ernest, Brussels, Belgium. Supplementary propulsion of cycles by the oscillation of the handlebars. 2,416,092; Feb. 18.

Genova, Alberto F., Treviso, Italy, assignor to Automatic Holding Company, Societe Anonyme, Luxemburg, Luxemburg. Apparatus for the instantaneous preparation of iced foodstuffs such as creams or the like. 2,415,585; Feb. 11.

Genrich, Fred W., Jr., assignee, et al.: *See*—

Hardell, Lawrence W.

Gensheimer, Henry, New York, N. Y. Hemming attachment for automatic feeding and sewing machines. 2,419,068; Apr. 15.

Genter, Albert H., Mount Lebanon, Pa. Fused cable connector. 2,414,865; Jan. 28.

Genter, Albert H., Mount Lebanon, Pa. Railhead clamp. 2,421,257; May 27.

Genter, Harold C., assignee: *See*—

Sardeson, Robert.

Geopfrich, George A., Stamford, assignor to The Allied Control Valve Company, Inc., South Norwalk, Conn. Pressure-responsive device. 2,418,508; Apr. 8.

Geopfrich, Rudolph A., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,418,632; Apr. 8.

Geophysical Development Corporation, assignee: *See*—

Krasnow, Shelley.

Geophysical Engineering Corporation, assignee: *See*—

Raitt, Russell W.

Geophysical Research Corporation, assignee: *See*—

Owen, John E.

George, Harry F., Chicago, Ill. Latching mechanism. 2,425,239; Aug. 5.

George, Harry F., Chicago, Ill. Steering wheel. 2,425,240; Aug. 5.



- George, Ralph W., Riverhead, N. Y., assignor to Radio Corporation of America. Transmission line having dead-end portion. 2,416,827; Mar. 4.
- George, Robert H.: *See*—  
Mako, Dave, and George.
- George, Seth C., Los Angeles, Calif. Lock bolt. 2,425,464; Aug. 12.
- George, Stuart H., assignee, et al.: *See*—  
Lefebvre, Edward A.
- Georges, Louis W., New Orleans, La., assignor to The United States of America, as represented by Claude R. Wickard, Secretary of Agriculture, and his successors in office. Cellulose acetate plasticized with an aryl morpholidophosphate. 2,418,224; Apr. 1.
- Georges, Louis W., New Orleans, La., assignor to the United States of America, as represented by the Secretary of Agriculture. Composition containing a cellulose compound and a morpholide. 2,429,679; Oct. 28.
- Georges, Louis W., Columbus, Ohio, and C. Hamalainen, New Orleans, La., assignors to United States of America as represented by the Secretary of Agriculture and his successors in office. Flame-resistant cellulosic material and producing same. 2,428,843; Oct. 14.
- Geraci, Francis R., U. S. Marine Corps. Collapsible container provided with fluid control means. 2,426,195; Aug. 26.
- Gerard, Frank W.: *See*—  
Waring, Charles E., and Gerard.
- Gerber, Isidor, assignee: *See*—  
Primus, Irving.
- Gerber Plastic Company, assignee: *See*—  
Scharff, Richard M.
- Gerbes, Otto, Goose Creek, Tex., assignor to Standard Oil Development Company. Isomerization process. 2,422,233; June 17.
- Gerbes, Otto, Goose Creek, Tex., assignor to Standard Oil Development Company. Catalytic process for treating hydrocarbons with a metallic halide. 2,429,125; Oct. 14.
- Gerbes, Otto, Goose Creek, Tex., assignor to Standard Oil Development Company. Catalytic isomerization of paraffinic hydrocarbons. 2,430,979; Nov. 18.
- Gerbino, Stephen R., East Paterson, and D. E. Whitney, Hawthorne, N. J. Toy airplane equipment. 2,423,380; July 1.
- Gerdan, Dimtrius: *See*—  
McDowall, Charles J., and Gerdan.
- Gerdes, Alfred M., assignee, et al.: *See*—  
Shipley, George C.
- Gerem, Philip, assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Broaching machine. 2,420,877; May 20.
- Gerhan, Arnold B., San Francisco, Calif. Sandpaper block. 2,414,036; Jan. 7.
- Gerhardt, Andrew H., Skokie, assignor to Electric Household Utilities Corporation, Chicago, Ill. Balancing means for centrifugal machines. 2,420,592; May 13.
- Gerhart, Howard L., Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Copolymer of styrene and a polyester of endomethylene tetrahydrophthalic acid and a glycol. 2,421,876; June 10.
- Gerhart, Howard L., Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Conjoint polymerization product of dicarboxylic compounds and vinyl compounds. 2,424,814; July 29.
- Gerhart, Howard L., and L. M. Adams, Milwaukee, Wis., assignors to Pittsburgh Plate Glass Company. Preparation of tetrahydrophthalic anhydrides. 2,423,234; July 1.
- Gerhold, Clarence G.: *See*—  
Flock, Bernard J., and Gerhold.
- Gerhold, Clarence G., assignor to Universal Oil Products Company, Chicago, Ill. Conversion of fluid reactants. 2,414,373; Jan. 14.
- Gerhold, Clarence G., assignor to Universal Oil Products Company, Chicago, Ill. Separation of hydrogen fluoride from hydrocarbons by distillation and partial condensation. 2,432,405; Dec. 9.
- Germany, Leslie W., assignor to Pye Limited, Cambridge, England. Automatic starting arrangement for synchronous motors. 2,421,931; June 10.
- Gernandt, Waldo G., assignor to Briggs Manufacturing Company, Detroit, Mich. Engine. 2,415,130; Feb. 4.
- Gerotor May Corporation, assignee: *See*—  
Stone, Albert R.
- Gerrard, A. J., & Company, assignee: *See*—  
Gerrard, John M., and Banff.
- Gerrard Industries Limited, assignee: *See*—  
Kamper, Andrew M., and Parkes.
- Gerrard, John M., and P. S. Banff, assignors to A. J. Gerrard & Company, Chicago, Ill. Sealing tool for fastening the overlapped ends of bands. 2,432,306; Dec. 9.
- Gerrard Steel Strapping Company, assignee: *See*—  
Vining, Willard F., and Rowe.
- Gershak, Tony, Karna City, Pa. Ice creeper. 2,431,748; Dec. 2.
- Gerst, Chris, Detroit, Mich. Clutch structure. 2,421,493; June 3.
- Gerst, Ruth E. New York, N. Y. Breast pad. 2,427,851; Sept. 23.
- Gerster-Seiler, Jakob, Jegenstorf, Bern, Switzerland. Adjustable eraser. 2,417,925; Mar. 25.
- Gertler, Samuel L., and H. L. J. Haller, Washington, D. C., assignors to the United States of America, as represented by Claude R. Wickard, Secretary of Agriculture, and his successors in office. N-alkylbenzamide and pyrethrum insecticides. 2,416,522; Feb. 25.
- Gertler, Samuel L., and H. L. J. Haller, Washington, D. C., assignors to the United States of America as represented by the Secretary of Agriculture. P-chloroacetophenone - semicarbazone as an insecticide. 2,426,349; Aug. 26.
- Gertler, Samuel L., and H. L. J. Haller, Washington, D. C., assignors to United States of America as represented by the Secretary of Agriculture. Fly sprays. 2,428,844; Oct. 14.
- Gerwe, Ray D., Clearwater, and M. A. Slade, Jr., Dunedin, Fla., assignors to Food Machinery Corporation, San Jose, Calif. Fruit treating solution. 2,432,406; Dec. 9.
- Gerwin, Harry L., U. S. Navy. Signal generator. 2,415,093; Feb. 4.
- Geser, Josef, Zurich, Switzerland. Auxiliary ribbon feed device for typewriters. 2,425,794; Aug. 19.
- Gess, Louis, Jenkintown, assignor to The Brown Instrument Company, Philadelphia, Pa. Signal system for measuring instruments. 2,427,131; Sept. 9.
- Gessler, Frederick A.: *See*—  
Thompson, Elmer B., and Gessler.
- Gessler, Frederick A., assignor, by mesne assignments, to Globe Milker, Inc., Des Moines, Iowa. Claw assembly for milking machines. 2,425,873; Aug. 19.
- Gethmann, Richard B., Bridgeport, Conn., assignor to General Electric Company. Ultra high frequency amplifier. 2,424,089; July 15.
- Getts, Sidney A., Jr., Rockford, Ill. Cigarette rolling device. 2,427,957; Sept. 23.
- Ge Wertz, Arthur L., Mount Vernon, N. Y., assignor to Burndy Engineering Company, Inc. Securing terminals to plates. 2,426,552; Aug. 26.
- Geyer, Bradford P., Berkeley, and S. A. Ballard, Oakland, assignors to Shell Development Company, San Francisco, Calif. Production of keto ethers. 2,413,822; Jan. 7.
- Geyer, George C., Hillside, N. J. Automatic brake wear take-up means. 2,414,037; Jan. 7.
- Ghia, Orestes, Montevideo, Uruguay. Reversible door lock. 2,424,450; July 22.
- Ghiglieri, Lloyd, Oakland, Calif. Wrench for waterproof watch cases. 2,417,926; Mar. 25.
- Ghormley, Roger K., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Impulse testing apparatus. 2,428,488; Oct. 7.
- Giannini, Gabriel M.: *See*—  
Craig, Burnie M., and Giannini.
- Giannini, Gabriel M., North Hollywood, Calif., assignor, by mesne assignments, to Automatic Electric Laboratories, Inc. Sound direction finder. 2,417,927; Mar. 25.
- Giannini, Gabriel M., West Los Angeles, assignor to Auto-flight Corporation, Burbank, Calif. Elimination of vibration errors in magnetic compasses and the like. 2,422,960; June 24.
- Giannini, Gabriel M., West Los Angeles, Calif., assignor to Automatic Laboratories, Inc., Chicago, Ill. Frequency converter. 2,424,451; July 22.
- Giannini, Gabriel M., West Los Angeles, Calif., assignor, by mesne assignments, to Howe & Fant, Inc., South Norwalk, Conn. Correction of transmission errors. 2,432,003; Dec. 2.
- Gibboney, Walter L., Denver, Colo. Segment delivering. 2,428,112; Sept. 30.
- Gibbs, Charles W., Chevy Chase, Md. Rotary motor. 2,418,829; Apr. 15.
- Gibbs, Thomas B., Delavan, Wis., assignor to George W. Borg Corporation, Chicago, Ill. Machine tool. 2,415,206; Feb. 4.
- Gibbs, Thomas B., Delavan, Wis., assignor, by mesne assignments, to George W. Borg Corporation, Chicago, Ill. Watch timing recorder. 2,421,781; June 10.
- Gibbs, Thomas B., Delavan, Wis., assignor, by mesne assignments, to George W. Borg Corporation, Chicago, Ill. Timing apparatus. 2,425,613; Aug. 12.
- Gibbs, William J., Brooklyn, N. Y. Apparatus for storing stacked articles. 2,426,995; Sept. 9.
- Gibbs, William J., and E. F. Smith, Brooklyn, N. Y. Dispenser for tableware. 2,421,782; June 10.
- Giberson, Frank, South Lyons, Mich. Drop-leaf table. 2,425,370; Aug. 12.
- Gibson, Elgen B., Jr., North Hollywood, and D. W. Blake-man, Altadena, assignors to Lockheed Aircraft Corporation, Burbank, Calif. Universal joint. 2,421,691; June 3.
- Gibson, Emery A., Olympia, Wash. Two plane cutting machine. 2,416,384; Feb. 25.
- Gibson, George A., Baltimore, Md. Pressure compensated thermostat. 2,431,801; Dec. 2.
- Gibson, George R., South Holland, Ill. Edger and trimmer. 2,433,659; Dec. 30.
- Gibson, Harvey C., Sr., Lancaster, Pa. Confection. 2,429,353; Oct. 21.
- Gibson, Herschel V., and E. E. Casey, deceased, by C. M. Casey, executrix, Bloomington, Ill., assignors, by mesne assignments, to Eureka Williams Corporation. Ramp for dispensing apparatus. 2,427,958; Sept. 23.
- Gibson, James D., Bartlesville, Okla., assignor to Phillips Petroleum Company. Recovery of hydrogen fluoride catalyst. 2,419,558; Apr. 29.



- Gibson, James D., and R. C. Cole, Bartlesville, Okla., assignors to Phillips Petroleum Company. Alkylation of hydrocarbons in the presence of sulfuric acid. 2,430,673; Nov. 11.
- Gibson, James G., Vancouver, British Columbia, Canada. Building log rafts. 2,421,145; May 27.
- Gibson, James W., Avenel, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Image translating device. 2,429,933; Oct. 28.
- Gibson, Joseph W.: *See*—  
Land, Edwin H., Swanton, and Gibson.
- Gibson, Norman M.: *See*—  
Barteck, Francis J., and Gibson.
- Gibson Refrigerator Company, assignee: *See*—  
Benson, Ralph L.  
Drake, Earl D.  
Nofzinger, Earl E.  
Norberg, Oscar E.  
Rutenber, Edwin A.
- Gibson, Sydney A.: *See*—  
Olpin, Henry C., Gibson, and McKnight.
- Gibson, Thomas F., Cleveland Heights, Ohio. Variable area wing. 2,423,095; July 1.
- Gibson, William T., assignor to Standard Telephones and Cables Limited, London, England. Metal-glass and the like seals. 2,423,066; June 24.
- Giddings & Lewis Machine Tool Co., assignee: *See*—  
Gallimore, Keith F.  
Kaiser, Erwin J., and Dauber.  
Kraut, Hans B., Gallimore, and Morgan.
- Gie, Gert J.: *See*—  
Adler, Erich, Gie, and von Euler.
- Gieringer, Carl K., assignor to The Liebel-Flarsheim Company, Cincinnati, Ohio. Resonance indicating and controlling device. 2,423,594; July 8.
- Giese, Oscar W., assignee, et al.: *See*—  
Anderson, William M.
- Gieseke, Werner A., assignor to S. C. Hurley, Jr., Danville, Ill. Photoelectric inspection circuit. 2,415,167; Feb. 4.
- Gieseke, Werner A., assignor to S. C. Hurley, Jr., Danville, Ill. Electronic timer. 2,415,168; Feb. 4.
- Gieseke, Werner A., assignor to S. C. Hurley, Jr., Danville, Ill. Method and apparatus for controlling conductance of an electronic circuit. 2,426,734; Sept. 2.
- Gieseke, Werner A., assignor to S. C. Hurley, Jr., Danville, Ill. Photoelectric article gaging apparatus. 2,433,559; Dec. 30.
- Gieskieng, Marion W., Denver, Colo. Railway wheel checking device. 2,429,266; Oct. 21.
- Gifford, James T., Elgin, and P. O. Esmay, Elmhurst, assignors to Sears, Roebuck and Co., Chicago, Ill. Stock feeding device. 2,417,484; Mar. 18.
- Gifford, Lee J.: *See*—  
Bisso, Nino, and Gifford.
- Gignoux, Ralph E., assignor to Hopper Machine Works, Inc., Bakersfield, Calif. Hydraulic drive for hoists or the like. 2,414,197; Jan. 14.
- Gihon, Harry D., Trenton, N. J. Game device. 2,430,120; Nov. 4.
- Gilbert, A. C., Company, The, assignee: *See*—  
Morse, Shirley P.  
Tooms, H. Cole.
- Gilbert, Alfred G.: *See*—  
Reece, Robert H., and Gilbert.
- Gilbert, Alfred G., South Acton, assignor to Reece Folding Machine Company, East Cambridge, Mass. Strip edge infolding machine. 2,430,463; Nov. 11.
- Gilbert & Barker Manufacturing Company, assignee: *See*—  
De Lancey, Warren H.  
Leitch, Walter C., and Logan.  
Mesh, Theodore J.
- Gilbert, Elbert R., Hamilton Square, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coated wall tile. 2,432,747; Dec. 16.
- Gilbert, Harold H., U. S. Navy. Hoist and transport apparatus. 2,427,667; Sept. 23.
- Gilbert, Harrison C., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Door latch. 2,420,285; May 6.
- Gilbert, Harry R. T., Los Angeles, Calif. Presser foot for cloth cutting machines. 2,424,748; July 29.
- Gilbert, Henry L., Brooklyn, N. Y. Plastic masses and making the same. 2,424,026; July 15.
- Gilbert, L. M., assignee: *See*—  
Johnson, Samuel W.
- Gilbert, Philo G., Portland, Oreg. Wheel. 2,431,802; Dec. 2.
- Gilbert, Richard L., Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Antifogging composition. 2,416,051; Feb. 18.
- Gilbert, Richard L., Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Antifogging composition. 2,416,254; Feb. 18.
- Gilbert, Samuel, Verona, assignor to Bendix Aviation Corporation, Bendix, N. J. Firing mechanism. 2,419,349; Apr. 22.
- Gilbert, Stanley W., Middletown, assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn. Control apparatus. 2,429,313; Oct. 21.
- Gilbert, Vincent C.: *See*—  
Heath, Louis T., and Gilbert.
- Gilbert, Walter, Sr., Johnstown, assignor to Syntroon Company, Homer City, Pa. Rotary seal member. 2,422,007; June 10.
- Gilchrist, Fred W., D. B. Kendall, and R. O. Bradley, assignors to Toledo Scale Company, Toledo, Ohio. Device for classifying objects according to weight. 2,417,642; Mar. 18.
- Gildehaus, Richard F., Dallas, Tex. Skylight construction. 2,425,060; Aug. 5.
- Gildersleeve, Elaine: *See*—  
Jay, Osa E., and Gildersleeve.
- Giles, Charles H.: *See*—  
Collie, Benjamin, Giles, and Wilkinson.
- Giles, Walter C.: *See*—  
Miles, John A., Long, and Giles.
- Gillilan, Paul M., assignor to Shellmar Products Corporation, Mount Vernon, Ohio. Container and seam construction. 2,422,725; June 24.
- Gill, Alan F., Ottawa, Ontario, Canada. Fuel injection system for internal-combustion engines. 2,415,687; Feb. 11.
- Gill, Charles E., Chicago, Ill. Gas odorizing. 2,430,050; Nov. 4.
- Gill, George H., assignor to The Garrett Corporation, Aeresearch Manufacturing Company Division, Los Angeles, Calif. Anti-icing control for engine systems. 2,414,206; Jan. 14.
- Gill, John B., San Francisco, and L. C. Schomer, Fresno, assignors to Pilot Manufacturing Company, San Francisco, Calif. Pipe cutting tool. 2,433,606; Dec. 30.
- Gill, Peter L., Detroit, Mich. Variable compression engine. 2,427,668; Sept. 23.
- Gill, Ray H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tool for upsetting hollow rivets. 2,430,563; Nov. 11.
- Gillam, Grant, assignee: *See*—  
West, Clarence.
- Gillard, Herbert W.: *See*—  
Green, Walter H., and Gillard.
- Gillard, Herbert W., Oak Park, assignor to Inflico Incorporated, Chicago, Ill. Apparatus for controlling the rate of discharge from a liquid distributor from changes in the liquid head within the distributor. 2,429,312; Oct. 21.
- Gillberg, Johannes, Stockholm, Sweden. Reinforcement member. 2,427,401; Sept. 16.
- Gille, Raymond G., and H. K. Bourquin, St. Paul, Minn. Airplane having adjustable wings and wing adjusting means. 2,428,934; Oct. 14.
- Gille, Willis H., St. Paul, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Flying hood release system. 2,420,946; May 20.
- Gille, Willis H., St. Paul, W. J. Field, and A. P. Upton, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electronic control apparatus for positioned device. 2,425,733; Aug. 19.
- Gille, Willis H., St. Paul, W. J. Field, and T. J. Wilson, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electronic amplifier controlled relay. 2,425,734; Aug. 19.
- Gillentine, Luceford P., U. S. Army, Arlington, Va. Plug ejector. 2,430,011; Nov. 4.
- Gillespie, Earl J., assignor to The Martin Band Instrument Company, Elkhart, Ind. Demountable valve guard for saxophones and the like. 2,425,795; Aug. 19.
- Gillespie, Earl J., assignor to The Martin Band Instrument Company, Elkhart, Ind. Octave valve control mechanism for saxophones and the like. 2,425,796; Aug. 19.
- Gillespie, Elwyn R., Richmond, Calif. Heating system. 2,425,797; Aug. 19.
- Gillette, Leslie A., Wyandotte, Mich., assignor to Sharples Chemicals Inc., Philadelphia, Pa. Manufacture of thiuram disulfides. 2,423,310; July 1.
- Gillette Safety Razor Company, assignee: *See*—  
Muros, Joseph.  
Testi, Nicholas.
- Gilliam, Comillus W., New York, N. Y. Pedal-operated aquatic vehicle. 2,420,422; May 13.
- Gilliam, Harry F., assignor to W. R. Starkey, Kansas City, Mo. Gummed paper tape machine. 2,432,880; Dec. 16.
- Gillings, Charles, and L. J. Murray, Liverpool, England, assignors to Automatic Electric Laboratories, Inc., Chicago, Ill. Telephone or like system. 2,416,093; Feb. 18.
- Gillings, Charles, and C. E. Beale, Liverpool, England, assignors to Automatic Electric Laboratories Inc., Chicago, Ill. Voice frequency and direct current impulse repeating system. 2,424,452; July 22.
- Gillis, George H., Fitchburg, Mass. Locating skates on shoes. 2,414,735; Jan. 21.
- Gilliver, Gilbert: *See*—  
Grace, Bertram B., Handley, and Gilliver.
- Gilliver, Gilbert, London, England, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Joining of wires, particularly fine wires used in the manufacture of electric coils. 2,414,461; Jan. 21.
- Gilliver, Gilbert, assignor to Standard Telephones and Cables Limited, London, England. Apparatus for joining wires and the like by fusion. 2,417,819; Mar. 25.
- Gilliver, Gilbert, assignor to Standard Telephones and Cables Limited, London, England. Electric welding apparatus. 2,423,096; July 1.



- Gilman, George W., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Pulse multiplex system. 2,428,366; Oct. 7.
- Gilman, Webster E., assignor to Permoflux Corporation, Chicago, Ill. Pressure-equalizing housing for transducers. 2,423,014; June 24.
- Gilman, Wilbert M., Wellesley Hills, Mass., assignor, by mesne assignments, to Cread Engineering and Research Company, Cranston, R. I. Unloading valve for hydraulic circuits. 2,420,394; May 13.
- Gilmartin, Thomas: *See*—  
Silverman, Daniel, and Gilmartin.
- Gilmore, Roy E., Portland, Oreg. Metal-lined portable wooden tank. 2,417,979; Mar. 25.
- Gilmour, Thomas, Brooklyn, N. Y. Detachable shoe heel. 2,431,868; Dec. 2.
- Gilpin, Garth G., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Walk for railway house cars. 2,420,533; May 13.
- Gilpin, Garth G., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Railway car structure. 2,426,867; Sept. 2.
- Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Housing for lightning arresters. 2,415,945; Feb. 18.
- Ginkel, Fred, assignor to Deere & Company, Moline, Ill. Axially adjustable wheel. 2,432,407; Dec. 9.
- Ginsburg, Victor: *See*—  
Sheer, Solomon, and Ginsburg.
- Ginter, Charles W., assignor to The Aro Equipment Corporation, Bryan, Ohio. Service apparatus for automobiles. 2,430,608; Nov. 11.
- Ginzton, Edward L.: *See*—  
Hansen, William W., and Ginzton.  
Snow, Donald L., Ginzton, and Hamilton.
- Ginzton, Edward L., Garden City, N. Y., assignor to Sperry Gyroscope Company, Inc. Power-measuring bridge. 2,417,820; Mar. 25.
- Giordano, Joseph, Nanuet, N. Y. Apparatus for coating aggregates. 2,420,368; May 13.
- Giordano, Michael, Brooklyn, N. Y. Collapsible shopping cart. 2,421,751; June 10.
- Girard, Georges, assignor to Magnetos Lucifer S. A., Geneva, Switzerland. Magnetic clutch. 2,432,234; Dec. 9.
- Girdler Corporation, The, assignee: *See*—  
Haslam, John H.  
Houlton, Harold G.  
Zottu, Paul D.
- Girling, Albert H. G.: *See*—  
Pratt, James H., and Girling.
- Girouard, Phyllis H., Washington, D. C. Bomb fuse device. 2,420,237; May 6.
- Girvin, Fred, Schenectady, N. Y., assignor to General Electric Company. Contact element. 2,418,812; Apr. 15.
- Gisholt Machine Company, assignee: *See*—  
Johnson, Charles H.
- Gisondi, Emanuel, Larchmont, N. Y. Nail. 2,427,959; Sept. 23.
- Gist, Fred M., Monahans, Tex. Casing centering device. 2,424,027; July 15.
- Gisvold, Ole, assignor to Regents of the University of Minnesota, Minneapolis, Minn. Producing plant extracts. 2,421,117; May 27.
- Gisvold, Ole, assignor to Regents of the University of Minnesota, Minneapolis, Minn. Plant extracts and producing same. 2,421,118; May 27.
- Gits, Joseph A.: *See*—  
Gits, Jules P.
- Gits, Joseph A., assignor of one-half to J. P. Gits, Chicago, Ill. Ice cube tray. 2,433,210; Dec. 23.
- Gits, Joseph A., assignor of one-half to J. P. Gits, Chicago, Ill. Ice cube tray. 2,433,211; Dec. 23.
- Gits, Jules P., assignee: *See*—  
Gits, Joseph A.
- Gits, Jules P., assignor, by mesne assignments to himself and J. A. Gits, Chicago, Ill. Molding. 2,413,823; Jan. 7.
- Gittings, Lewis D., Anniston, Ala., assignor to Monsanto Chemical Company, St. Louis, Mo. Vitreous glazes and enamels. 2,423,971; July 15.
- Givan, Minor L.: *See*—  
Hald, Robert F., and Givan.
- Givaudan-Delawanna Inc., assignee: *See*—  
Carpenter, Marion S.  
Collaud, Charles.
- Given, David M., Jr., Newark, N. J. Suction actuated motor for windshield wipers. 2,421,194; May 27.
- Given, Richard A.: *See*—  
Packie, John W., and Given.  
Small, James K., and Given.
- Given, Richard A., Lake Charles, La., assignor to Standard Oil Development Company. Butadiene desorption method. 2,419,350; Apr. 22.
- Given, Richard A., Lake Charles, La., assignor to Standard Oil Development Company. Separating butadiene and acetylenes from solution. 2,429,126; Oct. 14.
- Glabbe, Elmer F.: *See*—  
Bauer, Hans F., and Glabbe.
- Gladden, John N., Glendale, Calif. Master cylinder. 2,427,669; Sept. 23.
- Gladden, John N., and G. A. Kendall, Glendale, Calif. Shock absorber. 2,426,447; Aug. 26.
- Glantz, Wayne: *See*—  
Lewis, Aubrey W., and Glantz.
- Glanz, Christian H., Jr., Louisville, Ky. Electric clutch motor. 2,430,634; Nov. 11.
- Glanzer, Clarence J., Northfield Center, assignor to Air-Maze Corporation, Cleveland, Ohio. Combined liquid-washed filter and relief valve. 2,427,525; Sept. 16.
- Glascote Products, Inc., assignee: *See*—  
Brown, Carl S.
- Glaser, Henry, Santa Monica, Calif. Electric lamp support for Christmas trees. 2,414,866; Jan. 28.
- Glasgow, Charles S., West Los Angeles, and E. F. Burton, Los Angeles, assignors to Douglas Aircraft Company, Inc., Santa Monica, Calif. Retractable landing gear. 2,432,408; Dec. 9.
- Glasgow, Clarence O.: *See*—  
Walker, Jay P., and Glasgow.
- Glasmann, Kenneth J.: *See*—  
Frohoff, John R., and Glasmann.
- Glass, Henry P., assignor to Ekco Products Company, Chicago, Ill. Merchandise display case. 2,430,635; Nov. 11.
- Glass, Mansfield D., and W. W. Dalrymple, Wichita, Kans., and H. F. Halsted, Ferndale, Mich., assignors to Boeing Airplane Company, Wichita Division, Wichita, Kans. Lever control unit. 2,421,494; June 3.
- Glass, Myron S., West Orange, N. J., V. L. Ronci, Brooklyn, N. Y., and E. J. Walsh, Jersey City, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Space discharge device. 2,414,099; Jan. 14.
- Glass, Nathan R., Philadelphia, Pa. Plunger for pinball machines. 2,419,770; Apr. 29.
- Glass, Nathan R., Philadelphia, Pa. Plastic shoe. 2,420,354; Oct. 21.
- Glass, Paul, Chicago, Ill., assignor to Askania Regulator Company. Electric motor speed control circuits. 2,417,868; Mar. 25.
- Glass, Paul, Chicago, Ill., assignor to Askania Regulator Company. Stabilized magnetron circuits. 2,432,748; Dec. 16.
- Glass Science, Incorporated, assignee: *See*—  
Marboe, Evelyn C.  
Williams, Helen S.
- Glass, Walter, Northbrook, Ill. Reflector shield unit for germicidal lamps. 2,423,884; July 15.
- Glass, William H.: *See*—  
Hewitt, Ellis E., Bush, and Glass.
- Glassbrook, Clarence I., Glen Echo Farm, and R. C. Hansford, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Hydrocarbon conversion in presence of gel catalysts. 2,428,798; Oct. 14.
- Glassbrook, Roland R., assignor of one-fourth to W. Glassbrook, Lansing, Mich. Divided tube metal beam structure. 2,418,929; Apr. 15.
- Glassbrook, Wayne, assignee: *See*—  
Glassbrook, Roland R.
- Glasse, Courtney Q., assignor to Eastman Kodak Company, Rochester, N. Y. Airspaced photographic support. 2,422,008; June 10.
- Glassford, Fred, Royal Oak, assignor to Chrysler Corporation, Highland Park, Mich. Apparatus for cooling and dispensing articles. 2,432,749; Dec. 16.
- Glassman, Joel, Brookline, Mass. Shoe construction. 2,413,824; Jan. 7.
- Glassmire, William F.: *See*—  
Smith, William R., and Glassmire.
- Glassner, Mitchel, assignor to Maryland Baking Company, Inc., Baltimore, Md. Dispensing mechanism. 2,419,351; Apr. 22.
- Glatthar, George E., University Heights, and J. Terr, Cleveland Heights, assignors to The Art Metal Company, Cleveland, Ohio. Ultraviolet sterilizer. 2,413,704; Jan. 7.
- Glatz, Edward D., Kenmore, N. Y. Position indicator for aircraft in flight. 2,421,783; June 10.
- Glazer, Daniel, assignor to Frigie Corporation of America, Chicago, Ill. Stick positioning device. 2,414,942; Jan. 28.
- Gleasman, Vernon E., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Check valve. 2,429,578; Oct. 21.
- Gleason Works, assignee: *See*—  
Bryan, George H.  
Galloway, Clarence T.  
Head, Ernest C.  
Wildhaber, Ernest.
- Gleave, Wilfrid W., Widnes, England, assignor to Imperial Chemical Industries Limited. Electrode for use in electrolytic cells. 2,433,212; Dec. 23.
- Gleeson, Murray A., assignor to Crane Co., Chicago, Ill. Packing gland. 2,416,917; Mar. 4.
- Gledhill, Harry, assignee, et al.: *See*—  
Howlett, Edward J.
- Gledhill, Malcolm, assignee, et al.: *See*—  
Howlett, Edward J.
- Gledhill, Norman R., assignee, et al.: *See*—  
Howlett, Edward J.
- Gleitz, Herbert, and P. I. Thyreen, Euclid, and C. E. Miller, East Cleveland, assignors to The Marquette Metal Products Company, Cleveland, Ohio. Mounting for textile mill spindles. 2,417,485; Mar. 18.



- Glendenin, Lawrence E.: *See*—  
Brady, Edward L., and Glendenin.
- Glendinning, Edward, Huddersfield, and F. Binns, Bradford, England. Weaving and woven fabrics. 2,424,928; July 29.
- Glenn, Roland D., South Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Production of spinnable vinyl resin compositions. 2,418,507; Apr. 8.
- Glenn Tool & Manufacturing Co., assignee: *See*—  
Clutter, Russel F.
- Glennon, James B., U. S. Navy, and R. C. Duncan, Chevy Chase, Md. Mine firing device. 2,413,705; Jan. 7.
- Glennon, James B., U. S. Navy, R. W. Wallace, U. S. Army, and B. Woodward, Washington, D. C. Inertia controlled safety device. 2,429,615; Oct. 28.
- Gleser, Sol M., Olivette, and A. Treiman, St. Louis, Mo. Partial product multiplying machine. 2,432,569; Dec. 16.
- Glick, Jack, Bronx, N. Y. Brassière. 2,424,453; July 22.
- Glidden Company, The, assignee: *See*—  
Bain, Joseph P.  
Bain, Joseph P., and Best.  
Hampton, Burt L.  
Julian, Percy L., Cole, Magnani, and Meyer.  
Julian, Percy L., Cole, and Meyer.  
Klein, Otto C.  
Riegel, Byron, Meyer, Gouley, and Belswanger.
- Glines, Frederick S.: *See*—  
Muther, Lorenz F., and Glines.
- Glitsch Engineering Company, assignee: *See*—  
Glitsch, Hans C.
- Glitsch, Hans C., assignor, by mesne assignments, to Glitsch Engineering Company, Dallas, Tex. Bubble tower. Re. 22,946; Dec. 9.
- Glitsch, Hans C., assignor, by mesne assignments, to Glitsch Engineering Company, Dallas, Tex. Bubble tray downcomer. 2,420,075; May 6.
- Glitsch, Hans C., Dallas, Tex., assignor, by mesne assignments, to Glitsch Engineering Company. Riser for bubble cap trays. 2,422,300; June 17.
- Globe Hoist Company, assignee: *See*—  
Thompson, Elmer B.
- Globe Milker, Inc., assignee: *See*—  
Gessler, Frederick A.  
Thompson, Elmer B., and Gessler.
- Globus, Alfred R., Forest Hills, N. Y. Making mixtures of emulsifying and wetting agents. 2,424,951; July 29.
- Gloede, Albert, Poughkeepsie, N. Y. Marking implement holder. 2,428,213; Sept. 30.
- Glogau, Manfred L., Shorewood, assignor to Allen-Bradley Company, Milwaukee, Wis. Two-position switch. 2,423,381; July 1.
- Gloyer, Stewart W.: *See*—  
Freeman, Stephen E., and Gloyer.
- Gluckin Corporation, The, assignee: *See*—  
Gluckin, Harry.
- Gluckin, Edwin W., Brooklyn, N. Y. Brassière and similar garments. 2,427,402; Sept. 16.
- Gluckin, Harry, assignor to The Gluckin Corporation, New York, N. Y. Brassière. 2,420,593; May 13.
- Gluesenkamp, Earl W., Centerville, and M. Kosmin, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Oleyl esters of sulphobenzoic acids. 2,423,972; July 15.
- Gluhareff, Michael E., Stratford, assignor to United Aircraft Corporation, East Hartford, Conn. Horizontal stabilizer for rotary wing aircraft. 2,424,882; July 29.
- Glumer, Gustavo V., Mexico City, Mexico. Lock nut. 2,432,473; Dec. 9.
- Glynn, Edward A., assignor to Super Mold Corporation of California, Lodi, Calif. Tire mold body. 2,429,715; Oct. 28.
- Glyptis, Nicholas, Chicago, and G. K. Schnable, Riverdale, assignors to The Rauland Corporation, Chicago, Ill. Ion filter. 2,431,113; Nov. 18.
- Gneubs, Charles O., Lakewood, Ohio. Facilitating the wrapping and tying of bundles of newspapers. 2,417,643; Mar. 18.
- Gnoerk, Adolph E., Evanston, assignor to Peters Machinery Company, Chicago, Ill. Carton folding mechanism. 2,416,748; Mar. 4.
- Goble, Bert G., Tulsa, Okla. Combination roof and floor for buildings. 2,427,273; Sept. 9.
- Godbey, Dexter L., Long Beach, Calif. Motorized vehicle and transmission therefor. 2,427,132; Sept. 9.
- Goddard, Asa C., Mentor, assignor, by mesne assignments, to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Potentiometer winding device. 2,433,112; Dec. 23.
- Goddard, Charles T., assignor to Western Electric Company, Incorporated, New York, N. Y. Electron discharge device. 2,416,799; Mar. 4.
- Goddard, De Witt R., Riverhead, N. Y., assignor to Radio Corporation of America. Controlled carrier amplitude communication system. 2,425,614; Aug. 12.
- Goddard, Edwin G., Lombard, assignor to Jefferson Electric Company, Bellwood, Ill. High reactance transformer. 2,419,771; Apr. 29.
- Goddard, Edwin G., Lombard, assignor to Jefferson Electric Company, Bellwood, Ill. Mounting electrical devices. 2,433,511; Dec. 30.
- Goddard, Merrill B., Chicago, Ill., assignor to Carrier Corporation, Syracuse, N. Y. Control arrangement for refrigeration apparatus. 2,421,258; May 27.
- Goddard, Robert H., Roswell, N. Mex., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y. Rotating combustion apparatus. 2,424,610; July 29.
- Goddard, Ruth, New York, N. Y. Breast pallet. 2,429,680; Oct. 28.
- Goddin, Avery H.: *See*—  
Bousquet, Euclid W., and Goddin.
- Godet, Sidney, Albany, N. Y., assignor to General Electric Company. Follow-up control system. 2,416,579; Feb. 25.
- Godet, Sidney, Albany, N. Y., assignor to General Electric Company. Pulse direction finder. 2,417,248; Mar. 11.
- Godfrey, Grant D., Beatrice, Nebr. Ladder. 2,418,256; Apr. 1.
- Godfrey, Kenneth L.: *See*—  
Blake, Edward S., and Godfrey.
- Godfrey, Lena L.: *See*—  
Godfrey, Ralph M., and L. L.
- Godfrey, Lincoln: *See*—  
Lambertsen, Christian J., and Godfrey.
- Godfrey, Ralph M., and L. L., Lima, Ohio, assignors to J. B. Smith. Camera. 2,415,386; Feb. 4.
- Godley, Charles E., Ferndale, assignor to King-Seely Corporation, Ann Arbor, Mich. Timer escapement. 2,431,395; Nov. 25.
- Godsey, Frank W., Jr., Mount Lebanon, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Stabilizer apparatus. 2,416,300; Feb. 25.
- Godsey, Frank W., Jr., Wilkensburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Supercharger drive for airplane cabins. 2,429,716; Oct. 28.
- Godsey, Frank W., Jr., Mount Lebanon, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Stall warning indicating apparatus. 2,431,241; Nov. 18.
- Godshalk, James B.: *See*—  
Perley, George A., and Godshalk.
- Godwin, Gurney L., Wilkensburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system for synchronous dynamoelectric machines. 2,428,564; Oct. 7.
- Goedken, Victor B., assignor to Silver Streak Manufacturing Company, Dyersville, Iowa. Interlocking reconditioning blade for plowshares. 2,431,639; Nov. 25.
- Goehle, Earl G., Royal Oak, Mich. Rotary cutting tool. 2,422,404; June 17.
- Goehler, Michael, F. H. Reimer, and E. F. Davis, Appleton, Wis., assignors to American Cyanamid Company, New York, N. Y. Beater for disintegrating paper containing resin. 2,423,097; July 1.
- Goepfert, Werner F., Short Hills, N. J., assignor to Interchemical Corporation, New York, N. Y. Production of sugar cane wax. 2,430,012; Nov. 4.
- Goepfert, George J., and H. W. Buell, assignors to The Carborundum Company, Niagara Falls, N. Y. Abrasive articles and making. 2,431,035; Nov. 18.
- Goepfrich, George A., assignor to Bendix Aviation Corporation, South Bend, Ind. Accumulator system. 2,414,593; Jan. 21.
- Goepfrich, Rudolph A., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake holding mechanism. 2,414,409; Jan. 14.
- Goepfrich, Rudolph A., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,417,192; Mar. 11.
- Goepfrich, Rudolph A., assignor to Bendix Aviation Corporation, South Bend, Ind. Automatically adjusting brake. 2,417,193; Mar. 11.
- Goepfrich, Rudolph A., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake adjustor. 2,424,655; July 29.
- Goepfrich, Rudolph A., assignor to Bendix Aviation Corporation, South Bend, Ind. Support construction for hydraulic brake wheel cylinders. 2,431,551; Nov. 25.
- Goepfrich, Rudolph A., and B. E. House, assignors to Bendix Aviation Corporation, South Bend, Ind. Brake adjusting means. 2,423,015; June 24.
- Goepf, Rudolph M., Jr.: *See*—  
Brandner, John D., and Goepf.
- Goepf, Rudolph M., Jr., New Castle, assignor to Atlas Powder Company, Wilmington, Del. Cellulose ester plastics. 2,430,926; Nov. 18.
- Goertz, Raymond C.: *See*—  
Hull, Harvard L., Hartman, and Goertz.
- Goese, Melvin A.: *See*—  
McElvain, Samuel M., and Goese.
- Goettel, Evalyne W., Stockton, Calif. Finger shield. 2,428,152; Sept. 30.
- Goetz, Alice E., Maricopa County, Ariz. Weighted shoe. 2,424,159; July 15.
- Goetz, Paul C., Mount Holly, N. J., and H. L. Tiger, Hewlett, assignors to The Permutt Company, New York, N. Y. Removal of silica and other impurities from water by precipitation. 2,428,418; Oct. 7.
- Goetze, Frederick W., deceased, by M. C. Goetze, executrix, Franklin Township, Somerset County, N. J., assignor, by mesne assignments, to Johns-Manville Corporation, New York, N. Y. Self-sealing ring-joint gasket. 2,422,009; June 10.
- Goetze, Margie C., executrix: *See*—  
Goetze, Frederick W.



- Goff, David C., Omaha, Nebr. Roof. 2,422,010; June 10.
- Goff, Harold W., Manhasset, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Call transmitter. 2,416,688; Mar. 4.
- Goff, Harold W., Manhasset, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic follow-up for motor of self-synchronous type. 2,426,606; Sept. 2.
- Goff, Lindsay O., Westbrook, Maine, assignor to S. D. Warren Company, Boston, Mass. Apparatus for coating flexible webs. 2,423,768; July 8.
- Goff, Lionel E.: *See*—  
Wilson, Golder P., and Goff.
- Goff, Robert W., Schenectady, N. Y. Switch mechanism. 2,431,929; Dec. 2.
- Goffe, Frederick W. F.: *See*—  
Hunt, Stanley T., and Goffe.
- Goforth, Charles F., Wichita, Kans. Sewing machine. 2,414,227; Jan. 14.
- Gohn, Joseph F., assignee: *See*—  
Witthoff, Charles H.
- Gohorel, Fernand P., Antony, France, assignor to International Standard Electric Corporation, New York, N. Y. Automatic switching system. 2,423,098; July 1.
- Gohorel, Fernand P., Lyon, France, assignor to International Standard Electric Corporation, New York, N. Y. Private automatic branch exchange system. 2,424,563; July 29.
- Gohorel, Fernand P., Sceaux, France, assignor to International Standard Electric Corporation, New York, N. Y. Automatic telephone system. 2,426,196; Aug. 26.
- Gohorel, Fernand P., Antony, France, assignor to International Standard Electric Corporation, New York, N. Y. Multioffice telephone system. 2,431,321; Nov. 25.
- Gohorel, Fernand P., Sceaux, France, assignor to International Standard Electric Corporation, New York, N. Y. Multirural semiautomatic telephone exchange system. 2,433,359; Dec. 30.
- Gohr, Edwin J.: *See*—  
Graham, John M., Gohr, and Tyson.  
Hemminger, Charles E., and Gohr.
- Gohr, Edwin J., Summit, N. J., assignor to Standard Oil Development Company. Preparing amines. 2,421,608; June 3.
- Gohr, Edwin J., F. T. Barr, Summit, and B. E. Roetheli, Cranford, N. J., assignors to Standard Oil Development Company. Preparing amines. 2,415,817; Feb. 18.
- Gohr, Edwin J., Summit, D. L. Campbell, Short Hills, J. M. Graham, Plainfield, and W. I. Thompson, Westfield, N. J., assignors to Standard Oil Development Company. Catalytic cracking of hydrocarbon oils. 2,420,534; May 13.
- Gohr, Edwin J., Summit, N. J., and R. W. Richardson, Baton Rouge, La., assignors to Standard Oil Development Company. Separation of gases from solid particles. 2,429,751; Oct. 28.
- Golaszewski, Walter M., and A. Kaczor, Philadelphia, Pa. Sinkers head for full-fashioned knitting machines. 2,422,479; June 17.
- Golay, Marcel J. E., and H. A. Zahl, Fort Monmouth, N. J., assignors to the Government of the United States of America, as represented by the Secretary of War. System for detecting sources of radiant energy. 2,424,976; Aug. 5.
- Golba, Joseph, Gardner, Kans. Animated illuminated apparatus. 2,422,540; June 17.
- Gold, Jerry, Fall River, Mass. Cloth-laying machine. 2,427,275; Sept. 9.
- Gold, Marvin H., assignor to The Visking Corporation, Chicago, Ill. Preparing unsaturated nitro compounds. 2,414,594; Jan. 21.
- Gold, Marvin H., assignor to The Visking Corporation, Chicago, Ill. Preparing unsaturated nitro compounds. 2,414,595; Jan. 21.
- Goidacker, Edward H., Jamaica, N. Y., assignor to Michael Yundt Company, Waukesha, Wis. Bottle conveyor. 2,422,726; June 24.
- Goldberg, Abraham A., Norfolk, Va. Toothbrush. 2,418,344; Apr. 1.
- Goldberg, Benjamin and N. C. Benson, Washington, D. C. Method and apparatus for testing the curvature of reflector molds. 2,430,870; Nov. 18.
- Goldberg, Daisy H.: *See*—  
Jackler, Rose, and Goldberg.
- Goldberg, David N., Wheeling, W. Va. Stop for electric drills. 2,430,812; Nov. 11.
- Goldberg, Harold, Baltimore, Md., and E. F. De Mers, assignors to Stromberg-Carlson Company, Rochester, N. Y. Nonlinear charging system for networks. 2,418,875; Apr. 15.
- Goldberg, Herman R., Brooklyn, N. Y. Device to teach speech to deaf and hard of hearing students and others. 2,421,146; May 27.
- Goldberg, James B., Kansas City, Mo., now by judicial change of name J. B. Greer. Screw driver. 2,426,197; Aug. 26.
- Goldberg, Moses, Montclair, assignor to Hoffman-La Roche, Inc., Roche Park, Nutley, N. J. Keto-sulfones. 2,421,836; June 10.
- Goldberg, Moses W., Montclair, N. J., and S. D. Heineman, New York, N. Y., assignors to Hoffmann-La Roche, Inc., Nutley, N. J. Soluble sulfanilamide derivatives and preparing them. 2,430,051; Nov. 4.
- Goldberg, Samuel D.: *See*—  
Reasenber, Julian R., and Goldberg.
- Goldberg, Samuel D., assignor, by mesne assignments, to Oradent Chemical Co. Inc., New York, N. Y. Medicament cartridge or vial. 2,429,183; Oct. 14.
- Goldbert, Max L., New York, N. Y., assignor to Developers Corporation, Boston, Mass. Operator for pivoted closures. 2,430,222; Nov. 4.
- Goldblatt, Charles, New York, N. Y. Coupling for bands or the like. 2,424,656; July 29.
- Goldblatt, Joseph, New York, N. Y. Link bracelet. 2,425,465; Aug. 12.
- Goldblatt, Leo A.: *See*—  
Oldroyd, Dorothy M., Savich, and Goldblatt.
- Goldblatt, Leo A., New Orleans, La., assignor to United States of America, as represented by the Secretary of Agriculture. Process for the isomerization of allocimene. 2,427,497; Sept. 16.
- Goldblatt, Leo A., and S. Palkin, Washington, D. C.; dedicated to the free use of the People of the Territory of the United States. Converting nopinene to myrcene. 2,420,131; May 6.
- Golden, Lucius D., Richmond, Ind. Hanger device. 2,419,398; Apr. 22.
- Golden State Company, Ltd., assignee: *See*—  
Peebles, David D.  
Peebles, David D., and Hensley.
- Golder, Walter M., Port Washington, N. Y. Flashlight. 2,427,526; Sept. 16.
- Goldfield Consolidated Mines Company, The, assignee: *See*—  
Feldscher, Willard.
- Goldfisher, Fred, Chicago, Ill., assignor to United States Government, as represented by the Secretary of War. Metallic cartridge belt link. 2,426,448; Aug. 26.
- Golding, James L., Chicago, Ill. Device and method for applying thermoplastic caps to containers. 2,431,114; Nov. 18.
- Goldman, Bronislaw, Pittsburgh, Pa. Evaporator. 2,427,776; Sept. 23.
- Goldman, Ida Y., Brooklyn, N. Y. Coating stitched fabric. 2,433,270; Dec. 23.
- Goldman, Joshua H., East Haddam, Conn., assignor to Fibre Products Laboratories, Newark, N. Y. Apparatus for producing saturated fibrous bodies. 2,429,314; Oct. 21.
- Goldman, Maurice A., assignor to Fibre Products Laboratories, Inc., New Brunswick, N. J. Method and apparatus for producing tubular fabric. 2,422,234; June 17.
- Goldman, Sylvan N., Oklahoma City, Okla. Store service rack. 2,424,355; July 22.
- Goldmark, Peter C., New Canaan, Conn., assignor to Columbia Broadcasting System, Inc., New York, N. Y. Color television. 2,416,301; Feb. 25.
- Goldsborough, Shirley L., Basking Ridge, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Impedance type distance relay. 2,425,735; Aug. 19.
- Goldsborough, Shirley L., Basking Ridge, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Distance-type product-responsive relay. 2,426,013; Aug. 19.
- Goldsborough, Shirley L., Basking Ridge, and H. P. Sleeper, Short Hills, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Loss-of-load relay. 2,420,873; May 20.
- Goldsborough, Shirley L., Basking Ridge, and H. W. Lensner, East Orange, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Single contact distance relays systems. 2,430,871; Nov. 18.
- Goldsby, Arthur R.: *See*—  
Sensel, Eugene E., Atwell, and Goldsby.
- Goldsby, Arthur R., Beacon, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Acid alkylation of isoparaffins. 2,420,369; May 13.
- Goldschmidt, Max, London, England. Spindle adaptor for photographic cameras. 2,429,355; Oct. 21.
- Goldschmidt, Victor M., Craigieburn, Aberdeen, Scotland. Refractory fused forsterite. 2,418,026; Mar. 25.
- Goldsholl, Abraham, New York, N. Y. Garment with adjustable cup sizes. 2,420,774; May 20.
- Goldsmith, Alfred N., New York, N. Y. Statistical system. 2,413,965; Jan. 7.
- Goldsmith, Alfred N., New York, N. Y. Television apparatus. 2,416,919; Mar. 4.
- Goldsmith, Alfred N., New York, N. Y. Radio center-casting system. 2,427,670; Sept. 23.
- Goldsmith, Alfred N., New York, N. Y. Color television system. 2,431,115; Nov. 18.
- Goldsmith, Alfred N., assignor to Radio Corporation of America, New York, N. Y. Color television system. 2,416,918; Mar. 4.
- Goldsmith, Alfred N., assignor to Radio Corporation of America, New York, N. Y. Color television system. 2,423,769; July 8.
- Goldsmith, Alfred N., New York, N. Y., assignor to Radio Corporation of America. Color television system. 2,423,770; July 8.



- Goldsmith, Henry F., Philadelphia, Pa. Hairnet and making same. 2,428,071; Sept. 30.
- Goldsmith, Hugo, assignor to Sport Products, Inc., Cincinnati, Ohio. Athletic shoulder protector. 2,430,502; Nov. 11.
- Goldsmith, Pauline, New York, N. Y. Apron. 2,421,195; May 27.
- Goldsmith, Robert, Great Notch, assignor to Electronic Mechanics Inc., Clifton, N. J. Insulating structure. 2,429,955; Oct. 28.
- Goldsmith, William D., Portland, Oreg. Lawn mower. 2,421,558; June 3.
- Goldsmith, William H., Jr., Brookline, assignor to Abington Textile Machinery Works, Boston, Mass. Stripping carding apparatus. 2,422,011; June 10.
- Goldstein, Aaron A., assignor to Coat Craft Company, Philadelphia, Pa. Garment construction. 2,426,500; Aug. 26.
- Goldstein, David D., assignor to Allied Manufacturing and Trading Company, Pittsburgh, Pa. Sole for footwear. 2,421,932; June 10.
- Goldstein, Hymen: *See—*  
Griesinger, John W., and Goldstein.
- Goldstein, Isidore, New York, N. Y. Slide fastener. 2,427,777; Sept. 23.
- Goldstein, William L., New York, N. Y. Nasal device. 2,427,721; Sept. 23.
- Goldstine, Hallan E., Rocky Point, N. Y., assignor to Radio Corporation of America. Stabilized oscillatory system. 2,415,874; Feb. 18.
- Goldstine, Hallan E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Dimension measuring device. 2,421,933; June 10.
- Goldsworthy, Norman H., assignor to Continental Can Company, Inc., New York, N. Y. Self-cleaning electrode. 2,432,750; Dec. 16.
- Goldthwait, Charles F., H. O. Smith, and L. B. Barnes, New Orleans, La., assignors to the Secretary of Agriculture of the United States of America. Application of cellulose ethers to textiles. 2,417,869; Mar. 25.
- Golfieri, Amelia, New York, N. Y. Combination head and neck covering. 2,421,934; June 10.
- Golick, Alexander J., assignor, by mesne assignments, to Monsanto Chemical Company, Seattle, Wash. Hydraulic tensile testing machine. 2,425,931; Aug. 19.
- Golick, Joseph: *See—*  
Briskin, Theodore S., and Golick.
- Golightly, William J., and F. A. Gardina, assignors of one-third to E. O. Spotts, Jr., Tarentum, Pa. Plastic article. 2,427,906; Sept. 23.
- Gollin, Geoffrey J., Great Saint Helens, London, assignor to The Asiatic Petroleum Company, Limited, London, England. Cooling jacket for combustion chambers. 2,430,396; Nov. 4.
- Gollmar, Herbert A.: *See—*  
Mitchell, John, Hill, and Gollmar.
- Gollmar, Herbert A., Mount Lebanon, assignor to Koppers Company, Inc., Pittsburgh, Pa. Gas purification apparatus and method. 2,422,781; June 24.
- Gollwitzer, Walter T., Euclid, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del. Printing and adding machine. 2,414,643; Jan. 21.
- Gollwitzer, Walter T., Euclid, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio. Printing machine. 2,425,149; Aug. 5.
- Gollwitzer, Walter T., Euclid, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del. Printing and calculating machine. 2,427,049; Sept. 9.
- Golomb, Mary, Washington, D. C. Typewriter erasing guard. 2,427,852; Sept. 23.
- Gonzalez, Alberto R., assignor of eighty per cent to F. S. More, Habana, Cuba. Closure for nonrefillable containers. 2,424,356; July 22.
- Gonzalez, Amalia O., Mexico City, Mexico. Side action automatic lighter. 2,433,041; Dec. 23.
- Good, Albert P.: *See—*  
Baker, Willard L., Campbell, and Good.
- Good, Frederick C., Jr., Cheltenham, Pa. Method of making universal joints. 2,432,307; Dec. 9.
- Good, George M.: *See—*  
Greensfelder, Bernard S., Voге, and Good.
- Good, George M., Albany, H. H. Voге, Berkeley, and B. S. Greensfelder, Oakland, assignors to Shell Development Company, San Francisco, Calif. Production of gasoline and Diesel fuel by catalytic cracking and solvent extraction. 2,429,875; Oct. 28.
- Good, Louis P., Texarkana, Ark. Third-dimensional pictures and third-dimensional portrayal of anatomy and surgery. 2,421,609; June 3.
- Good, Robert W.: *See—*  
Struk, John, and Good.
- Goodale, R. Wayne, Berkeley, assignor, by mesne assignments, to California Research Corporation, San Francisco, Calif. Diesel engine starting fluid. 2,431,322; Nov. 25.
- Goodall-Sanford, Inc., assignee: *See—*  
Bucklin, Herbert.  
Fox, Norman H.  
Nutter, William S.
- Goodall, William M., Oakhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electronic apparatus. 2,416,302; Feb. 25.
- Goodall, William M., Oakhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Impulse generator. 2,420,309; May 13.
- Goodall, William M., Oakhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency modulation. 2,426,996; Sept. 9.
- Goodchild, Frank D., and W. H. Wolsey, London, W. C. 2, assignors to Standard Telephones and Cables Limited, London, England. Electron discharge tubes for ultra-high frequencies. 2,426,198; Aug. 26.
- Goodchild, Frank D., and W. H. Wolsey, London, W. C. 2, assignors to Standard Telephones and Cables Limited, London, England. Electron discharge tube for ultra-high frequencies. 2,428,020; Sept. 30.
- Goodchild, Frank D., and C. H. Foulkes, assignors to Standard Telephones and Cables Limited, London, England. Electron discharge apparatus. 2,431,638; Nov. 25.
- Goode, Hery A., assignor of one-half to Corwin Trospier, Booker, Tex. Cultivator. 2,430,223; Nov. 4.
- Gooden, Robert J., North Kansas City, Mo. Milk pail. 2,422,541; June 17.
- Gooding, Francis H., Lodi, assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J. Buoyant electrode. 2,422,727; June 24.
- Goodings, Eric P., and M. A. T. Rogers, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Substituted 2,4-diaryl-pyrrole compounds and method of producing same. 2,422,667; June 24.
- Goodings, Eric P., and M. A. T. Rogers, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Pyrrole coloring matters and making same. 2,422,668; June 24.
- Goodlatte, Robert K., East Orange, assignor to Production Engineering Corporation, Clifton, N. J. Impregnating and coating machine. 2,419,260; Apr. 22.
- Goodlett, Edward R., Ferguson, Mo., assignor to Curtiss-Wright Corporation. Aircraft construction. 2,427,853; Sept. 23.
- Goodloe, Alfred M., Montclair, assignor to Metal Textile Corporation, West Orange, N. J. Scouring device fabricated from tubular knit metallic mesh and method of making same. 2,427,274; Sept. 9.
- Goodloe, Paul M., II, Little Neck, N. Y., and T. T. Noland, U. S. Navy, assignors to Socony-Vacuum Oil Company, Incorporated. Treatment of mineral oil emulsions. 2,427,326; Sept. 9.
- Goodman, Harry, Britton, Okla. Liquid level control device for pumping units. 2,424,657; July 29.
- Goodman, Leo A., assignor to Marceph & Co., Inc., Brooklyn, N. Y. Casing or packaging perishable food products. 2,420,310; May 13.
- Goodman Manufacturing Company, assignee: *See—*  
Bergmann, Ernst R.  
Bigelow, Roy S.  
Bodin, George.  
Cartlidge, Frank.  
Hagenbook, Loy D.  
Leroy, Louis, and Wood.  
Lindgren, Frank A.  
Moulton, Albion.  
Sloane, William W.  
Slomer, Joseph J.  
Wood, Frank J.
- Goodman, Robert, and H. J. Jacoby, New York, N. Y. Variable transmission level luffing device for derricks and jib cranes. 2,419,209; Apr. 22.
- Goodreau, William F., Seattle, Wash. Tumbler type clothes-washing machine having tiltable drum. 2,428,489; Oct. 7.
- Goodrich, B. F. Company, The, assignee: *See—*  
Beber, Adolph J.  
Bixby, Willard F.  
Colley, Russell S.  
Compton, Jack and Wilson.  
Craig, David.  
Dasher, Paul J., Crawford, and Colley.  
Davis, Herbert L.  
Elliott, Stanley M.  
Fink, Herbert H.  
Flanagan, George W.  
Flink, John H.  
Folt, Vernon L., and Shaver.  
Fryling, Charles F.  
Garvey, Benjamin S.  
Gill, Ray H.  
Gresham, Thomas L., and Shaver.  
Haren, Urban C., and Hasselquist.  
Harper, Thomas C.  
Hermanns, Otto E., and Herzog.  
Herzogh, Frank.  
Heston, Eugene E.  
Hollerith, Charles.  
Hunter, Willson H.  
Hunter, Willson H., and Green.  
Jones, Paul C.  
Jones, Paul C., and Mathes.  
Kche, Henry J.  
Krotz, Alvin S.  
Krupp, Carroll P.  
L'Hollier, Leslie H.  
Loweke, Erwin F.  
MacDonald, Frank J.



- Goodrich, B. F., Company, The, assignee: *See*—Continued.  
 Mathes, Roger A.  
 Reuter, Louis F.  
 Riley, Chester A.  
 Schoenfeld, Frank K.  
 Seifried, Anthony G.  
 Slemmons, Charles O.  
 Sloan, Arthur W.  
 Slusher, Frank.  
 Steadman, Thomas R.  
 Steadman, Thomas R., and Breyfogle.  
 Stewart, William D.  
 Taylor, Myron L.  
 Van Arsdell, Fred.  
 Voelker, Helmut, and Wolfe.  
 Westfahl, Jerome C., Sears and Martindale.  
 Wheeler, Glynn P.  
 Whitman, Hyman L.
- Goodrich, Frank W.: *See*—  
 Thornburgh, Ivan D., and Goodrich.
- Goodson, G. F., assignee: *See*—  
 Loewe, Peter L.
- Goodson, James C., Atlanta, Ga. Safety lock. 2,426,826; Sept. 2.
- Goodspeed, Everett E., Falmouth, Maine. Holder for charis. 2,420,947; May 20.
- Goodwillie, John E.: *See*—  
 Hornbostel, Lloyd, and Goodwillie.
- Goodwin, Byrl T., Clayton, Wash. Portable splicing implement for ropes and cables. 2,430,980; Nov. 18.
- Goodwin, Carl W., North Plainfield, N. J., assignor to American Seal-Kap Corporation of Delaware, Wilmington, Del. Bottle capping head. 2,416,001; Feb. 18.
- Goodwin, Clinton B., Springfield. Fire extinguisher signal. 2,430,927; Nov. 18.
- Goodwin, Ellis D., Sioux City, Iowa. Optical system for color photography. 2,430,121; Nov. 4.
- Goodwin, Leslie C., and C. Tinsley, Parkside Mills, Golborne, near Warrington, assignors to Harben's (Viscose Silk Manufactures) Limited, Golborne, near Warrington, Lancashire, England. Drive of rayon spinning boxes. 2,418,705; Apr. 8.
- Goodwin, Robert R., and G. M. Dasher, Augusta, Ga. Toy machine gun. 2,420,076; May 6.
- Goodyear Aircraft Corporation, assignee: *See*—  
 Ames, Robert S.
- Goodyer, Harold J., Chicago, Ill. Conduit having annular ribs, a sump, and sediment directing means. 2,432,308; Dec. 9.
- Gookin, Sylvester L., Quincy, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Grommet and eyelet setting apparatus. 2,422,405; June 17.
- Gooley, Robert E., Oradell, N. J. File fastener. 2,432,409; Dec. 9.
- Goosmann, William F.: *See*—  
 Clark, Llewellynn J., and Goosmann.
- Goran, Steven J., assignor to The Louis Allis Company, Milwaukee, Wis. Collector ring. 2,419,992; May 6.
- Goranson, Robert E., St. Paul, Minn. Scaffold support. 2,415,207; Feb. 4.
- Gorden, Olaf, Seattle, Wash. Combined knob, scale, and pointer structure. 2,427,050; Sept. 9.
- Gordinier, Ralph E., assignor to Special Engineering Service, Incorporated, Detroit, Mich. Work support. 2,424,090; July 15.
- Gordon, Anthony, and S. G. Mozolewski, New York, N. Y. Ice cream disher. 2,427,095; Sept. 9.
- Gordon, Arthur, Chicago, Ill. Automatic sewer flood control. 2,431,640; Nov. 25.
- Gordon, Harry E., assignor to Rochester Telephone Corporation, Rochester, N. Y. Time warning arrangement for telephone systems. 2,413,825; Jan. 7.
- Gordon, Henry S., Gary, Ind., assignor to Carnegle-Illinois Steel Corporation. Scouring apparatus. 2,419,448; Apr. 22.
- Gordon Johnson Company, assignee: *See*—  
 Johnson, Gordon W.
- Gordon, Lawrence M., Barnum, Iowa. Shovel loader. 2,429,717; Oct. 28.
- Gordon, Murray, assignee: *See*—  
 Wulstein, Charles.
- Gordon, Newell T., Schenectady, N. Y., assignor to General Electric Company. Infrared generator. 2,424,454; July 22.
- Gordon, Philip L., New York, assignor to American Waterproofing Corporation, Brooklyn, N. Y. Compositions containing copolymers of vinyl acetate with dialkyl esters of maleic acid and process by which such copolymers and compositions are prepared. 2,430,564; Nov. 11.
- Gordon, Richard F., Liverpool, England. Typewriter type-bar guide. 2,432,410; Dec. 9.
- Gordon, Robert H., assignor to Parker Rust-Proof Company, Detroit, Mich. Apparatus for rustproofing or the like. 2,421,610; June 3.
- Gordon, Ronald A., New York, N. Y. Illumination for typewriters. 2,422,406; June 17.
- Gordon, Sidney R., assignee: *See*—  
 Lang, Paul W.
- Gordon, William A., Shelton, assignor to Farrel-Birmingham Company, Incorporated, Ansonia, Conn. Treating rubber. 2,422,480; June 17.
- Gore, Albert J., Washington, D. C. Buckle. 2,430,928; Nov. 18.
- Gore, Henry W., Traverse City, Mich. Power sprayer. 2,432,309; Dec. 9.
- Gorey, Archie H., assignor to Graflex, Inc., Rochester, N. Y. Electrical connecting plug and receiving member or receptacle therefor. 2,428,214; Sept. 30.
- Gorin, Alex M., New York, N. Y. Cowling fastener. 2,416,873; Mar. 4.
- Gorin, Everett: *See*—  
 Brown, Henry T., and Gorin.  
 Gorin, Manuel H. and E.  
 Oblad, Alex G., and Gorin.
- Gorin, Everett, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Manufacture of oxygen. 2,418,402; Apr. 1.
- Gorin, Everett, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Chlorine manufacture. 2,418,930; Apr. 15.
- Gorin, Everett, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Recovery of halogens. 2,418,931; Apr. 15.
- Gorin, Manuel H.: *See*—  
 Brown, Ethan A., Gorin, and Abramson.
- Gorin, Manuel H. and E., Dallas, Tex., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Production of styrene. 2,416,990; Mar. 4.
- Gorman, William J.: *See*—  
 Cardone, Angelo B., Gorman, and Rarick.
- Gorn, Martin, Stamford, Conn. Knife sharpener. 2,433,512; Dec. 30.
- Gorsuch, Howard F., Mansfield, Ohio. Power shovel. 2,418,299; Apr. 1.
- Gorsuch, Robert A., Gambier, Ohio. Ball projector. 2,432,570; Dec. 16.
- Gorton, George, Machine Co., assignee: *See*—  
 Klema, Walter E., and Sorenson.  
 Miller, Theodore.
- Gorton-Pew Fisheries Company, Ltd., assignee: *See*—  
 Hempel, Herbert.
- Gosh, Edmond J., Milwaukee, Wis. Fishing rod holder. 2,423,933; July 15.
- Gosnell, Edward F., Columbus, Ohio. Mechanical basketball game. 2,431,552; Nov. 25.
- Gosnell, Joseph H., Jr., Minneapolis, Minn. Die. 2,421,935; June 10.
- Goss Printing Press Company, The, assignee: *See*—  
 Crafts, Curtis S. and Pollock.  
 Harless, Charles A.  
 Taylor, Auburn.  
 Whitehead, William A.  
 Worthington, Emory W.
- Goss, Worth C., Seattle, Wash. Making boron. 2,415,946; Feb. 18.
- Goss, Worth C., Seattle, Wash. Demolition bomb. 2,417,980; Mar. 25.
- Gossard, Charles M., assignor to Pangborn Corporation, Hagerstown, Md. Abrasive supply system. 2,414,038; Jan. 7.
- Gosselin, Wilfrid J., Methuen, Mass., assignor to U S Bobbin & Shuttle Co., Providence, R. I. Thread trap for shuttles. 2,426,449; Aug. 26.
- Gothberg, Lawrence: *See*—  
 Bachman, Fred E., and Gothberg.
- Gotsch, Otto H.: *See*—  
 Tucker, Charles O., and Gotsch.
- Götte, Ernst: *See*—  
 Gündel, Wolfgang, and Götte.
- Gottesmann, Uscha, and H. Lowenstein, Paris, France; vested in the Attorney General of the United States. Electrolytic production of manganese compounds. 2,424,392; July 22.
- Gottier, Thomas L., Princeton, N. J., assignor to Radio Corporation of America. Television system. 2,414,228; Jan. 14.
- Gottier, Thomas L., Princeton, N. J., assignor to Radio Corporation of America. Fire control computer. 2,417,549; Mar. 18.
- Gottier, Thomas L., Princeton, N. J., assignor to Radio Corporation of America. Pulse generator system. 2,419,772; Apr. 29.
- Gottlieb, David, and A. V. Jerard, Chicago, Ill. Multiple connector. 2,429,810; Oct. 28.
- Gottlieb, Henry, Montreal, Quebec, Canada. Manufacture of welt shoes. 2,428,153; Sept. 30.
- Gottschall, Clarence R., assignor to All American Aviation, Inc., Wilmington, Del. Contact hook for air pickup systems and the like. 2,433,448; Dec. 30.
- Gottschalk, Emil, New York, N. Y. Manufacture of ornamented rubber articles. 2,423,143; July 1.
- Gottschalk, Norman F., South Euclid, Ohio. Apparatus for delivering measured quantities of liquid by volume from bottles or similar vessels. 2,419,891; Apr. 29.
- Gottschalk, Richard B.: *See*—  
 Farris, Michael O., O'Connor, and Gottschalk.
- Gottschall, Wilhelm: *See*—  
 Martin, Friedrich, Gottschall, and Velde.
- Goudreau, Henry A., Lynn, Mass. Extension light for flashlights. 2,427,051; Sept. 9.



- Gough, Leslie F., Toronto, Ontario, Canada. Reciprocating bar gate. 2,428,874; Oct. 14.
- Goughour, Walter B., Seattle, Wash. Envelope opener. 2,428,490; Oct. 7.
- Gouirand, Rene, New York, N. Y. Apparatus for transmitting power. 2,427,598; Sept. 16.
- Gould, Albert S., Inyokern, Calif., assignor to the United States of America as represented by the Secretary of the Navy. Rocket launcher. 2,430,636; Nov. 11.
- Gould, Albert S., Pasadena, and F. C. Lindvall, Altadena, Calif., assignors to United States of America, as represented by the Secretary of the Navy. Barrage rocket projector. 2,429,021; Oct. 14.
- Gould, Charles, Plainfield, assignor to Marco Chemicals Inc., Sewaren, N. J. Treatment of unsaturated alkyd resins with a monohydric alcohol. 2,418,633; Apr. 8.
- Gould, Charna, New York, N. Y. Plastic piping. 2,426,769; Sept. 2.
- Gould, Clarence D., Bronx, N. Y., assignor to Talon, Inc. Top stop for slide fasteners. 2,422,091; June 10.
- Gould & Eberhardt, Incorporated, assignee: See—Davenport, Granger.
- Gould, Edna A.: See—Masterson, Norma B., and Gould.
- Gould, Harold L. B., Towaco, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic materials. 2,430,464; Nov. 11.
- Gould, Harold W., Evanston, assignor to Crane Packing Company, Chicago, Ill. Gasket. 2,423,771; July 8.
- Gould, Martin J., Washington, D. C. Brushless type of motor or generator. 2,426,199; Aug. 26.
- Goulding, John P.: See—Conn, Robert C., Adams, and Goulding.
- Goulding, John P., Neshanic Station, R. P. Parker, Somerville, and J. J. Denton, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Chlorinated-aliphatic ether of amino-diphenylamines. 2,426,576; Aug. 26.
- Goulding, Joseph M., Fairhaven, Mass., assignor to Revere Copper and Brass Incorporated, New York, N. Y. Manufacture of bimetal. 2,423,810; July 8.
- Goulding, Joseph M., Fairhaven, Mass., assignor to Revere Copper and Brass Incorporated, New York, N. Y. Welding assembly. 2,423,811; July 8.
- Goulds Pumps, Inc., assignee: See—Mann, John.
- Gouley, Romeo W.: See—Riegel, Byron, Meyer, Gouley, and Beiswanger.
- Gouloze, Martin J., Grand Rapids, assignor to Nash-Kelvinator Corporation, Detroit, Mich. Breaker strip structure for spaced wall cabinets. 2,432,751; Dec. 16.
- Gouly, Ruby E., Tacoma, Wash. Bobbie pin holder. 2,420,704; May 20.
- Gouy Léon, Geneva, Switzerland, vested in the Attorney General of the United States. Arrangement of electrical instruments on airplanes. 2,418,830; Apr. 15.
- Government of the United States, assignee: See—Isbell, Horace S.
- Gowell, Niles P., Watertown, assignor to Raytheon Manufacturing Company, Newton, Mass. Conductive shield for external press type electron discharge tubes. 2,420,311; May 13.
- Gower, Thomas C., Greenville, S. C. Motor control system. 2,425,312; Aug. 12.
- Goyette, Francis H., assignor to Loding Engineering Corporation, Worcester, Mass. Doctor mechanism for paper making rolls and cylinders. 2,418,706; Apr. 8.
- Grabau, William C., Brighton, assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass. Frequency regulator. 2,420,312; May 13.
- Graber, Christian L., Lakewood, Ohio. Surgical tub. 2,426,303; Aug. 26.
- Grabner, Walter J., Minneapolis, Minn. Work holding and fabricating apparatus. 2,427,133; Sept. 9.
- Grabske, John P., Cudahy, Wis. Detachable loader unit for trucks and tractors. 2,418,403; Apr. 1.
- Grace, Bertram B., J. Handley, and G. Gilliver, London, England, assignors, by mesne assignments, to Standard Electric Corporation, New York, N. Y. Manufacturing and assembling electrical measuring instruments. 2,414,462; Jan. 21.
- Grace, Edward J., Jr., Swarthmore, assignor to Sun Oil Company, Philadelphia, Pa. Apparatus for collecting fluid samples. 2,418,876; Apr. 15.
- Grace, Edward J., Jr., Chester, assignor to Sun Oil Company, Philadelphia, Pa. Valve leakage indicator. 2,430,122; Nov. 4.
- Gradisar, Albin A.: See—Peck, William F., and Gradisar.
- Gradisar, Albin A., and G. E. Guellich, Buffalo, N. Y., assignors, by mesne assignments, to American Optical Company, Southbridge, Mass. Projection apparatus. 2,414,867; Jan. 28.
- Gradisar, Albin A., and G. F. Schenk, Buffalo, N. Y., assignors to American Optical Company, Southbridge, Mass. Film projection apparatus. 2,415,281; Feb. 4.
- Grady, Stephen S., New York, N. Y. Electric switch. 2,423,099; July 1.
- Grady, Stephen S., New York, N. Y. Thermal circuit breaker. 2,429,225; Oct. 21.
- Grady, Stephen S., New York, N. Y. Bus bar mounted ammeter. 2,430,465; Nov. 11.
- Grady, Thomas M., Dorchester, Mass. Propulsion mechanism. 2,416,689; Mar. 4.
- Graeber, Alfred, Milwaukee, Wis. Hanger. 2,419,638; Apr. 29.
- Graebner, Winfred H., Neenah, and R. C. Flom, Menasha, Wis., assignors to Marathon Corporation. Packaging hygroscopic material. 2,415,387; Feb. 4.
- Graenacher, Charles, Riehen, R. Sallmann, Bottmingen, and O. Albrecht, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Condensation products and preparing the same. 2,433,449; Dec. 30.
- Graf, Max, Baden, assignor to "Patelhold" Patentverwertungs & Elektro-Holding A.-G., Glarus, Switzerland. Arrangement for protecting the electrodes in demountable high vacuum tubes. 2,413,760; Jan. 7.
- Graff, Benjamin P., assignor to C. R. Nalle, Philadelphia, Pa. Caster. 2,425,675; Aug. 12.
- Graff, George W.: See—White, William D., and Graff.
- Graffenberger, Fredrick, Milwaukee, Wis. Ash tray. 2,425,428; Aug. 12.
- Grafflin, Don P.: See—Curtis, Clarence D., and Grafflin.
- Grafflin, John T.: See—Mantilla, Carlos, and Grafflin.
- Graflex, Inc., assignee: See—Gorey, Archie H. Jacobson, Irving, and Smith. Kals, William S. Lester, Henry M.
- Graham, Adelbert M., Paulding, Ohio, assignor by mesne assignments, to Thermoid Company, Trenton, N. J. Manufacturing well drill pipe protectors. 2,433,042; Dec. 23.
- Graham, Charles D., assignor to General Motors Corporation, Dayton, Ohio. Control for air conditioning systems. 2,423,382; July 1.
- Graham, Donald E., Madison, Wis. Multiple rod assembling and clamping device. 2,433,550; Dec. 30.
- Graham, Eric B., North Finchley, London, assignor to Specialoid Limited, London, England. Piston. 2,420,474; May 13.
- Graham, Frank G., Lansing, Mich. Hand truck. 2,417,644 Mar. 18.
- Graham, George M., Detroit, assignor to Hinckley-Myers Division of Kent-Moore Organization, Inc., Jackson, Mich. Link chain spanner wrench. 2,420,171; May 6.
- Graham, George M., Detroit, assignor to Hinckley-Myers Division of Kent-Moore Organization Inc., Jackson, Mich. Thrust element for cylinder liner removing and inserting tool. 2,421,324; May 27.
- Graham, George M., Detroit, assignor to Hinckley-Myers Division of Kent-Moore Organization Inc., Jackson, Mich. Tool for flaring or beading tubing. 2,430,168; Nov. 4.
- Graham, John L.: See—Merker, Herman, and Graham.
- Graham, John M.: See—Gohr, Edwin J., Campbell, Graham, and Thompson.
- Graham, John M., Plainfield, and E. J. Gohr, and C. W. Tyson, Summit, N. J., assignors to Standard Oil Development Company. Treating hydrocarbon fluids. 2,429,127; Oct. 14.
- Graham, Matthew P., Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Variable ratio steering gear. 2,417,072; Mar. 11.
- Graham, Matthew P., Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Tie rod socket bearing. 2,417,160; Mar. 11.
- Graham, Matthew P., and J. H. Booth, Detroit, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio. Joint. 2,424,455; July 22.
- Graham, Maurice H., assignee, et al.: See—Anderson, William M.
- Graham, Warren C., assignor to First Bank and Trust Company, Perth Amboy, N. J., and Reconstruction Finance Corporation, New York, N. Y. Portable flame thrower. 2,417,981; Mar. 25.
- Gram, Carl F., Rowayton, Conn., assignor to North American Rayon Corporation, New York, N. Y. Thread advancing device. 2,414,644; Jan. 21.
- Granath, Axel G., and J. J. Gruenfeld, Chicago, assignors to H. S. Simpson, Evanston, Ill. Apparatus for removing fines in bucket loaders. 2,424,272; July 22.
- Granberg, Fred, Chicago, Ill. Sash lock. 2,421,196; May 27.
- Grand Metal Products Corporation, assignee: See—Hoberg, Edgar A., and Moore.
- Grand Rapids Hardware Company, assignee: See—Viehweger, August.
- Grand Rapids Packing Company, assignee: See—Van Den Bergh, William, Johnson and Pastoor.
- Granfield, John C., Pittsfield, Mass., assignor to General Electric Company. Core for electrical devices. 2,433,660; Dec. 30.
- Grange, Paul: See—Blake, Robert E., Grange, and Thomas.
- Granger, Elmer E., Reno, Nev. Electric outlet box. 2,423,016; June 24.
- Granstedt, Karl E., assignor to Aktiebolaget Formator, Stockholm, Sweden. Cigar machine. 2,427,854; Sept. 23.



- Grant, Charles H., assignee, et al.: *See*—  
Lawler, Frank P.
- Grant, Gerald M. M., Los Angeles, Calif. Piston ring. 2,423,017; June 24.
- Grant, Gerald M. M., Los Angeles, Calif. Piston oil ring. 2,428,491; Oct. 7.
- Grant, Gordan A.: *See*—  
Cook, Arthur S., and Grant.
- Grant, Harry C., Jr., New York, N. Y., assignor to Specialties Development Corporation, Bloomfield, N. J. Fire-extinguishing unit. 2,418,468; Apr. 8.
- Grant, Harry C., Jr., New York, N. Y., assignor to Specialties Development Corporation, Bloomfield, N. J. Apparatus for controlling gun chargers. 2,423,446; July 8.
- Grant, John, assignor to Grant Oil Tool Company, Los Angeles, Calif. Oil well tool. 2,427,052; Sept. 9.
- Grant, John, and J. J. Santiago, assignor to Grant Oil Tool Company, Los Angeles, Calif. Determination of well pipe perforations. 2,416,441; Feb. 25.
- Grant, John A., Granville, Ohio, assignor to Owens-Corning Fiberglas Corporation. Forming parallel glass fiber filter units. 2,433,271; Dec. 23.
- Grant, Leona H., Highland Park, Mich. Hair curler. 2,424,815; July 29.
- Grant-Mackay, J., Drexel Hill, Pa. Treating salt. 2,432,915; Dec. 16.
- Grant Oil Tool Company, assignee: *See*—  
Grant, John.  
Grant, John, and Santiago.  
Santiago, James J.
- Grant, Philippe, Overbrooke, Ontario, Canada. Gear shifting mechanism. 2,430,169; Nov. 4.
- Grant Photo Products, Inc., assignee: *See*—  
Pask, Stanley J.
- Grant, Richard H., San Francisco, assignor to Permanente Cement Company, Oakland, Calif. Cement compositions. 2,433,450; Dec. 30.
- Grant, Robert B., Mendham, assignor to Curtiss-Wright Corporation, Bloomfield, N. J. Potentiometer housing and positioning structure. 2,431,749; Dec. 2.
- Grant, Samuel, assignor to Products Development, Inc., Chicago, Ill. Curling rod. 2,415,586; Feb. 11.
- Grant, Samuel, Chicago, Ill., assignor, by mesne assignments, to Helene Curtis Industries, Inc. Curling device. 2,421,259; May 27.
- Graham, Frederick W., Glencoe, Ill. Applying heat to ironing machines. 2,422,481; June 17.
- Grassi, Louis, Los Angeles, Calif. Compact or vanity. 2,424,817; July 29.
- Graumann, Raymond L., Alexandria, Va., and W. J. Donahue, Jr., Washington, D. C. Fuze. 2,427,671; Sept. 23.
- Gravell, Rogers, Linden, N. J., assignor to American Cyanamid Company, New York, N. Y. Preparation of dipotassium monosodium ferricyanide. 2,415,791; Feb. 11.
- Gravell, Rogers, Linden, N. J., assignor to American Cyanamid Company, New York, N. Y. Preparation of potassium ferricyanide. 2,415,792; Feb. 11.
- Graver Tank & Mfg. Co., Inc., assignee: *See*—  
Bleker, Lawrence W., and Welp.  
Durdin, Augustus C., III.  
Kamp, Ewald A.  
Prager, Frank D.  
Ulm, Reign C.  
Welter, Roy.
- Graves, Eldon F.: *See*—  
Knutson, Amos T., and Graves.
- Graves, Herbert C., Jr., West Chester, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Circuit breaker-balanced armature. 2,419,892; Apr. 29.
- Graves, Jay, Berkeley, and A. N. Butler, assignors to Speedmaster, Limited, Oakland, Calif. Lever actuated tire bead forcing device. 2,433,113; Dec. 23.
- Graves, Theodore E., West Orange, assignor to The Wilcolator Company, Elizabeth, N. J. Pressure cooker and control therefor. 2,424,393; July 22.
- Gray, Allen G., Rocky River, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Electrodeposition of lead. 2,415,169; Feb. 4.
- Gray, Alvin N.: *See*—  
Brillhart, Samuel E., and Gray.
- Gray, Byron E., Alton, Ill. Preparation of 2-keto gulonic acid and its salts. 2,421,611; June 3.
- Gray, Byron E., Alton, Ill. Preparation of 2-keto gulonic acid and its salts. 2,421,612; June 3.
- Gray, Charles B., Springfield, Pa. Pump. 2,416,171; Feb. 18.
- Gray, Earl E.: *See*—  
Domville, Charles H., Jr., and Gray.
- Gray, Frank: *See*—  
Richards, Edward A., Ellison, and Gray.
- Gray, G. A., Company, The, assignee: *See*—  
Doran, John E.
- Gray, George F.: *See*—  
Pratt, Verneur E., and Gray.  
Pratt, Verneur E., Gray, and Reed.
- Gray, Harold F., Jr.: *See*—  
Adelson, David E., and Gray.
- Gray, Harry C., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Forming laminated resin impregnated stock sheets. 2,432,752; Dec. 16.
- Gray, Harry C., Chicago, Ill., assignor to Continental Can Co., Inc., New York, N. Y. Apparatus for testing cans for leakage. 2,433,043; Dec. 23.
- Gray, Harry I., Cincinnati, Ohio. Collapsing wheeled carrier. 2,414,943; Jan. 28.
- Gray, Herbert E., and A. M. Erickson, assignors to Barron-Gray Packing Company, San Jose, Calif. Method of and apparatus for extracting juice. 2,419,545; Apr. 29.
- Gray, James J., Liverpool, and F. Burgess, Widnes, England, assignors to Imperial Chemical Industries Limited. Production of chlorinated aliphatic nitriles. 2,426,091; Aug. 19.
- Gray, John B.: *See*—  
Roe, Robert B., and Gray.
- Gray, John C., Arlington, Va., W. E. Thibodeau, Cleveland, Ohio, J. H. Church, Austin, Minn., and G. J. Kessenich, Madison, Wis. Projectile. 2,426,997; Sept. 9.
- Gray, John D., Chicago, assignor, by mesne assignments, to Gray-Mills Corporation, Evanston, Ill. Coolant pump. 2,432,004; Dec. 2.
- Gray, Joseph B., assignor to Standard Oil Company, Chicago, Ill. Catalytic conversion of heavy oils. 2,414,736; Jan. 21.
- Gray, Kenneth R.: *See*—  
Schlosser, Paul H., and Gray.  
Schlosser, Paul H., Gray, and Keyser.
- Gray, Kenneth J., Pasadena, Calif. Savings bank. 2,425,874; Aug. 19.
- Gray-Mills Corporation, assignee: *See*—  
Gray, John D.  
Morse, Normand W.
- Gray, Newenham A., assignor to D. J. Murray Manufacturing Co., Wausau, Wis. Braking drum drive. 2,428,967; Oct. 14.
- Gray, Norman A., Stamford, Conn., assignor, by mesne assignments, to Schick Incorporated. Electric shaver shear plate and manufacture. 2,416,094; Feb. 18.
- Gray, Raymond K., assignor to Illinois Lock Company, Chicago, Ill. Padlock. 2,433,114; Dec. 23.
- Gray, Reid B., Dundalk, and J. C. De Weese, Essex, assignors to The Glenn L. Martin Company, Middle River, Md. Utilization of cargo space in ships and the like. Re. 22,876; May 13.
- Gray, Reid B., Dundalk, and J. C. De Weese, Essex, assignors to The Glenn L. Martin Company, Middle River, Md. Lubricating oil cell. 2,419,016; Apr. 15.
- Gray, Reid B., Dundalk, and J. C. De Weese, Essex, assignors to The Glenn L. Martin Company, Baltimore, Md. Plastic liner for containers. 2,421,613; June 3.
- Gray, Robert M., Sheffield, Ala. Apparatus for handling concrete blocks. 2,423,557; July 8.
- Gray, William E., West Lafayette, Ind., assignor to Peerless Equipment Company, Chicago, Ill. Draft gear. 2,417,410; Mar. 18.
- Graybeal, La Verne R., Elizabethton, Tenn., assignor to North American Rayon Corporation, New York, N. Y. Starting thread on bobbins. 2,431,323; Nov. 25.
- Graybill, Howard W., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,418,171; Apr. 1.
- Graybill, Kenneth W., Elmhurst, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Intercommunication system including a master station. 2,428,072; Sept. 30.
- Graybrook, Herbert W., Irwin, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Alternating current motor control. 2,431,242; Nov. 18.
- Graydon, George E., Windsor, Ontario, Canada. Location indicator having an endless web and sliding name plate to cover and uncover indications on the web. 2,424,611; July 29.
- Grayson, John H., assignor, by mesne assignments, to Lowell and Grayson Manufacturing Company, Monrovia, Calif. Inserted tooth milling cutter. 2,418,257; Apr. 1.
- Grayson, John H., assignor to Lowell and Grayson Manufacturing Company, Monrovia, Calif. Electric heater for cooking utensils. 2,430,715; Nov. 11.
- Great American Industries, Inc., assignee: *See*—  
Curtiss, William R.  
Hellmann, Reinhard K.
- Great Lakes Carbon Corporation, assignee: *See*—  
Bollaert, Armand R.
- Great Lakes Spring Corporation, assignee, et al.: *See*—  
Heuer, Lawrence H.
- Great Lakes Steel Corporation, assignee: *See*—  
Hall, William J.  
Selmi, Luciano G., and Altenburger.
- Great States Corporation, assignee: *See*—  
Kersey, Robert S.
- Great Western Sugar Company, The, assignee: *See*—  
Clark, Avery A.
- Green, A. P., Fire Brick Company, assignee: *See*—  
Charles, Glen W.
- Green, Clarence C., Manheim Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Counting device. 2,417,074; Mar. 11.
- Green, Clarence C., Manheim Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Crown cap assembling machine which aligns gaskets and indicates any misalignment. 2,432,988; Dec. 23.



- Green, Clarence J., assignor to Norton Company, Worcester, Mass. Cam grinding apparatus. 2,415,062; Jan. 28.
- Green, Douglas H., London, England. Structural members formed of metal and timber. 2,421,197; May 27.
- Green, Edward: *See*—  
Freedman, Louis, and Green.
- Green, Edward A., assignor to Security Machine Products Company, Chicago, Ill. Manufacturing nuts. 2,418,070; Mar. 25.
- Green, Floyd S.: *See*—  
Adam, Frederick B., Green, and Stieglitz.
- Green, Floyd S., assignor to Frank Adam Electric Company, St. Louis, Mo. Switch clip. 2,433,115; Dec. 23.
- Green, Frank L., Rockton, assignor to Green Manufacturing Co., Inc., Rockford, Ill. Feeding device. 2,426,200; Aug. 26.
- Green, Fred P.: *See*—  
Huenerfauth, George E., Green, and Yochim.
- Green, Harry J., Jr., and F. P. Ciambone, Jr., assignors to Stromberg-Carlson Company, Rochester, N. Y. Method and apparatus for moisture-proofing electrical devices. 2,430,224; Nov. 4.
- Green, Lee B., Lakewood, Ohio. Shaping or setting machine for metal bands or tire rims. 2,428,419; Oct. 7.
- Green, Lee B., Lakewood, Ohio. Garbage grinder. 2,428,420; Oct. 7.
- Green, Lee B., Lakewood, Ohio. Band shrinker. 2,430,813; Nov. 11.
- Green, Lloyd G., Denver, Colo. Insulin kit. 2,421,495; June 3.
- Green Manufacturing Co., Inc., assignee: *See*—  
Green, Frank L.
- Green, Martin, Newark, N. J. Window blind structure. 2,422,407; June 17.
- Green, Maurice B.: *See*—  
Walton, Eric, and Green.
- Green, Norval H., Hasbrouck Heights, and W. H. Warren, Montclair, N. J., assignors to Radio Corporation of America. Beam deflection tube having parallel focusing and beam defining plates. 2,415,481; Feb. 11.
- Green, Robert L.: *See*—  
Navias, Louis, and Green.
- Green, Thomas D., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Gaseous fluid-liquid spray nozzle for tempering glassware. 2,418,766; Apr. 8.
- Green, Vernon L.: *See*—  
Nystrom, Karl F., and Green.
- Green, Walter H., Batavia, assignor to Inflico Incorporated, Chicago, Ill. Sewage treatment. 2,419,492; Apr. 22.
- Green, Walter H., Batavia, assignor to Inflico Incorporated, Chicago, Ill. Apparatus and process for improving separation of clarified liquid from a slurry by subdividing the slurry at the separation interface into a plurality of shallow streams. 2,425,371; Aug. 12.
- Green, Walter H., Batavia, assignor to Inflico Incorporated, Chicago, Ill. Apparatus and process for improving separation of clarified liquid from a slurry by maintaining a slurry circulation including a flow of slurry adjacent the separation interface. 2,425,372; Aug. 12.
- Green, Walter H., Batavia, assignor to Inflico Incorporated, Chicago, Ill. Process and apparatus for improving clarification of turbid liquids by use of partially thickened sludge. 2,429,316; Oct. 21.
- Green, Walter H., Chicago, Ill., assignor to Inflico Incorporated. Solids separator. 2,429,315; Oct. 21.
- Green, Walter H., Batavia, and H. W. Gillard, Oak Park, assignors to Inflico Incorporated, Chicago, Ill. Grit separator. 2,425,932; Aug. 19.
- Green, William C.: *See*—  
Hunter, Willson H., and Green.
- Green, William E., and W. F. F. Martin-Hurst, Sunbury-on-Thames, England. Cooling device for the oil systems of internal-combustion engines. 2,433,451; Dec. 30.
- Green, William G., Jenks, and J. Callahan, said Callahan assignor to Engineering Laboratories, Inc., Tulsa, Okla. Pumping mechanism. 2,419,993; May 6.
- Green, William N.: *See*—  
Marder, Estella P., and Green.
- Greenbaum, Martin, assignor to one-half to C. Handler, Newark, N. J. Wrapping die. 2,422,408; June 17.
- Greenberg, Ben, & Brother, assignee: *See*—  
Greenberg, Benjamin A.
- Greenberg, Benjamin A., assignor to Ben Greenberg & Brother, Chicago, Ill. Rug and making same. 2,414,198; Jan. 14.
- Greenberg, Harry, Stamford, Conn., assignor to U. S. Industrial Chemicals, Inc., New York, N. Y. Revivification of phosphate catalysts. 2,426,678; Sept. 2.
- Greenberg, Saul, New York, N. Y. Pen and pencil guard and holder. 2,415,208; Feb. 4.
- Greenberg's, M., Sons, assignee: *See*—  
Hendrickson, Harold G., and Hagberg.
- Greenblatt, Charles, assignee, et al.: *See*—  
Westin, Axel.
- Greenbowe, James W., East Orange, A. H. Laidig, Bloomfield, and W. F. Kelly, Jr., West Caldwell, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Manufacture of glassware. 2,433,116; Dec. 23.
- Greenstreet, Oliver P., San Diego, Calif. Preparation for coating and preserving fruits and vegetables. 2,432,310; Dec. 9.
- Greene, Arch C., Carrollton, Ga. Book cover and case. 2,422,235; June 17.
- Greene, Chester W., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Muzzle cover operating mechanism for guns. 2,417,300; Mar. 11.
- Greene, Elmer G., Lakewood, assignor to The Ferry Cap & Set Screw Company, Cleveland, Ohio. Machine for cleaning and polishing studs and the like. 2,424,160; July 15.
- Greene, Ernest W., Lakeland, and J. R. Sherertz, Bartow, Fla., and A. T. Cole, Cartersville, Ga., assignors to Minerals Separation North American Corporation, New York, N. Y. Froth-flotation concentration of sylvite from sylvinitic ores. 2,420,476; May 13.
- Greene, Gardiner G., Waban, and D. Abraham, Waltham, assignors to Workshop Associates, Incorporated, Newton, Mass. Conductor support. 2,424,687; July 29.
- Greene, George B., Long Beach, assignor to L. M. Harvey, La Canada, Calif. Radio direction finding circuit. 2,420,395; May 13.
- Greene, Hoke S.: *See*—  
Berger, Alfred J., and Greene.
- Greene, John C., Jr., Watertown, Conn. Hydraulic drag saw. 2,414,519; Jan. 21.
- Greene, Joseph R.: *See*—  
Sprenger, Harold A., and Greene.
- Greene, Nat C.: *See*—  
Katcher, Morris, and Greene.
- Greenfield, Theodore: *See*—  
Moore, Samuel A., and Greenfield.
- Greenfield, Walter H., Philadelphia, Pa. Railway track heater. 2,415,131; Feb. 4.
- Greenhalgh, James, Burnley, assignor to Lambert Howarth and Sons Limited, Waterfoot, Lancaster, England. Machine for relasting shoes and slippers. 2,420,948; May 20.
- Greening, Emil F., Ickenham, assignor to Negretti & Zambra, London, England. Indicating, recording, or control apparatus. 2,430,503; Nov. 11.
- Greenland, Leonard S.: *See*—  
Simpson, Thomas, Greenland, and Ramsay.
- Stokes, Philip H., Greenland, and Pugh.
- Greenleaf, Rupert L., Auburn, Maine. Worktable for stamping and embossing machines. 2,421,260; May 27.
- Greenlee Bros. & Co., assignee: *See*—  
Mansfield, Judson H.
- Greenlee, Joseph R., Santa Fe Springs, Calif., assignor to Shaffer Tool Works. Kelly cock. 2,418,404; Apr. 1.
- Greenlee, Lyman E., Anderson, Ind. Electric fence impulse control system. 2,422,012; June 10.
- Greenmun, Leo S., Johnson City, N. Y. Gear drive for window regulators and the like. 2,422,830; June 24.
- Greenough, John H., Flint, assignor to General Motors Corporation, Detroit, Mich. Collet. 2,415,482; Feb. 11.
- Greenough, Raymond E., Maple Heights, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Landing gear. 2,424,233; July 22.
- Greenroyd, William H., Carey, Tex. Stalk cutter. 2,422,409; June 17.
- Green's Fuel, Incorporated, assignee: *See*—  
Jones, Nelson M.
- Greensfelder, Bernard S.: *See*—  
Fuller, Donald L., and Greensfelder.
- Good, George M., Voge, and Greensfelder.
- Greensfelder, Bernard S., Oakland, assignor to Shell Development Company, San Francisco, Calif. Hydrogenation of liquid carbonaceous materials. 2,426,929; Sept. 2.
- Greensfelder, Bernard S., Oakland, H. H. Voge, Berkeley, and G. M. Good, Albany, assignors to Shell Development Company, San Francisco, Calif. Conversion of hydrocarbon oils. 2,431,243; Nov. 18.
- Greenstein, Joseph, Brooklyn, N. Y. Automatic hair curler. 2,415,483; Feb. 11.
- Greenwald, Arthur A., Cleveland, Ohio. Flushing tank inlet valve. 2,415,875; Feb. 18.
- Greenwald, Harold A.: *See*—  
Price, Nathan C., and Greenwald.
- Greenwald, Harold A., Hollywood, assignor to Lockheed Aircraft Corporation, Los Angeles, Calif. Windshield deicing. 2,414,520; Jan. 21.
- Greenway, Lewis M., Lansdowne, Pa. Pocketbook. 2,425,150; Aug. 5.
- Greenwell, Everett N., Valparaiso, Ind., assignor to The Indiana Steel Products Company. Mold assembly for centrifugal casting. 2,419,716; Apr. 29.
- Greer, Elva O., Amarillo, Tex. Combination pocket protector and pen and pencil holder. 2,415,132; Feb. 4.
- Greer, James B.: *See*—  
Goldberg, James B.
- Greer, John J., Conimicut, and A. Luongo, Wickford, R. I. Wire twisting hand tool. 2,416,002; Feb. 18.
- Greer, Millard M., Carnegie, assignor to Edwin L. Wiegand Company, Pittsburgh, Pa. Electric heating unit. 2,423,184; July 1.
- Greger, Herbert H.: *See*—  
Menefee, Arthur B., and Greger.
- Greger, Herbert H., Washington, D. C. Preparing air-setting refractory mortars. 2,425,151; Aug. 5.



- Greger, Herbert H., and S. W. Briggs, Washington, D. C. Friction composition and preparing the same. 2,420,475; May 13.
- Greger, Herbert H., and J. J. Reimer, Washington, D. C.; said Reimer assignor to The Briggs Filtration Company, Bethesda, Md. Plastic refractory. 2,425,152; Aug. 5.
- Gregg, David, Caldwell, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Ice detecting mechanism. 2,427,778; Sept. 23.
- Gregg, George W., South Bend, Ind., assignor to Shell Development Company, San Francisco, Calif. Emulsifiable hydrocarbon oils and emulsions thereof. 2,423,144; July 1.
- Gregg, Harry H.: *See*—  
Edgar, Kenneth L., and Gregg.
- Gregg, J. Vern, assignee: *See*—  
Thompson, Martin A.
- Gregg, Jon, assignor to L. D. Gregg, Newhope, Pa. Apparatus for molding soles for footwear. 2,428,664; Oct. 7.
- Gregg, Lynne D., assignee: *See*—  
Gregg, Jon.
- Gregg, Wilks B., Denver, Colo. Traction shoe. 2,422,092; June 10.
- Gregoire, Resta S., assignor of twenty per cent to H. L. Cox and twenty per cent to J. J. Thornton, Jr., Detroit, Mich. Oil seal. 2,417,107; Mar. 11.
- Gregorie, Eugene T., Grosse Ile, and M. Rigitko, Detroit, assignors to Ford Motor Company, Dearborn, Mich. Headlamp construction. 2,431,641; Nov. 25.
- Gregorius, Thomas K., Tarentum, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Laminated unit and making it. 2,427,557; Sept. 16.
- Gregory, Julia M., Chicago, Ill. Hair curler. 2,430,766; Nov. 11.
- Gregory, Luther W., and R. N. Harmon, Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. High-frequency induction heating system. 2,416,172; Feb. 18.
- Gregory, Paul N., Nampa, Idaho. Bed screen. 2,425,466; Aug. 12.
- Gregory, Waylande C., Bound Brook, N. J. Composite decorative unit. 2,425,933; Aug. 19.
- Greider, Harold W.: *See*—  
Fasold, George A., and Greider.  
MacArthur, Roger A., and Greider.  
Smith, Fred W., Greider, and Becker.
- Greider, Harold W., Wyoming, and G. A. Fasold, Mount Healthy, Ohio, and W. C. Bowman, Llanerch, Pa., assignors to The Philip Carey Manufacturing Company. Locked down weather surfacing elements. 2,421,417; June 3.
- Greider, Harold W., Wyoming, and G. A. Fasold, Mount Healthy, Ohio, assignors to The Philip Carey Manufacturing Company. Compositions for built-up roofing. 2,424,234; July 22.
- Greiner, Alfred, Cleveland Heights, Ohio, assignor to General Electric Company. Glass tube heating apparatus. 2,427,722; Sept. 23.
- Greisman, Hyman, assignor to Monroe Paper Box Co., Inc., New York, N. Y. Reel. 2,413,966; Jan. 7.
- Grell, Herra H. G., New York, N. Y., and H. W. Richards, East Orange, N. J., assignors to The Firestone Tire and Rubber Company, and The B. F. Goodrich Company. Method and apparatus for treating matter in a high-frequency electric field. 2,415,025; Jan. 28.
- Greiling, David J., assignor to McCray Refrigerator Company, Kendallville, Ind. Reinforcing means for door panels. 2,433,272; Dec. 23.
- Greneker, Lillian L., New York, N. Y. Hollow article and making the same. 2,418,551; Apr. 8.
- Grenier, Wilfred J.: *See*—  
Pfeiffer, Frank H., and Grenier.
- Greppi, Charles, Shorewood, Wis. Splint. 2,423,496; July 8.
- Gresham, Thomas L., and F. W. Shaver, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Reaction of beta-lactone, alcohol and hydrogen halide. 2,422,728; June 24.
- Gresham, William F., assignor to Storkline Furniture Corporation, Chicago, Ill. Baby buggy and the like. 2,415,686; Feb. 11.
- Gresham, William F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of tertiary alkoxy acetoneitriles. 2,425,615; Aug. 12.
- Gresham, William F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of acyl cyanides. 2,426,014; Aug. 19.
- Gresham, William F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Catalytic hydrogenation of aminoacetoneitrile to ethylene diamine. 2,429,876; Oct. 28.
- Gresham, William F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of alpha keto aliphatic amides. 2,429,877; Oct. 28.
- Gresham, William F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Synthesis of organic oxygen-containing compounds. 2,432,474; Dec. 9.
- Gresham, William F., Lindamere, and R. E. Brooks, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Synthesis of glycol ethers. 2,429,878; Oct. 28.
- Gretschel, Adolph J., Long Island City, N. Y. Detachable handle for suitcases or other articles. 2,416,621; Feb. 25.
- Gretter, Joseph C., Norwalk, Conn. Building structure. 2,428,154; Sept. 30.
- Greulich, Paul J., assignor of one-half to W. E. Platt, Fort Wayne, Ind. Abrading tool. 2,429,752; Oct. 28.
- Grey, David S., assignor to Polaroid Corporation, Cambridge, Mass. Optical system. 2,416,442; Feb. 25.
- Grey, David S., assignor to Polaroid Corporation, Cambridge, Mass. Optical system. 2,416,443; Feb. 25.
- Grey, Donald J.: *See*—  
Midgley, Albert H., and Grey.
- Grey, Victor, assignor to Teletype Corporation, Chicago, Ill. Hollow milling machine. 2,416,749; Mar. 4.
- Greyhound Corporation, The, assignee: *See*—  
Caesar, Orville S.
- Gribbins, Myers F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Stabilized soap. 2,416,052; Feb. 18.
- Gribble, William A.: *See*—  
Libman, Charles, and Gribble.
- Grief, Bonney H., assignor of one-half to H. H. Hayduk, Chicago, Ill. Margin calculator for typewriters. 2,421,119; May 27.
- Grieg, Donald D.: *See*—  
Labin, Emile, and Grieg.
- Grieg, Donald D., Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation. Trigger circuit. 2,416,304; Feb. 25.
- Grieg, Donald D., Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation. Radio receiver. 2,416,305; Feb. 25.
- Grieg, Donald D., Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation. Demodulator. 2,416,306; Feb. 25.
- Grieg, Donald D., Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Noise generator. 2,416,307; Feb. 25.
- Grieg, Donald D., Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Radio receiver. 2,416,308; Feb. 25.
- Grieg, Donald D., Forest Hills, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Multiplex synchronizing system. 2,418,116; Apr. 1.
- Grieg, Donald D., Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Wave translator. 2,419,547; Apr. 29.
- Grieg, Donald D., Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Discriminator circuit. 2,419,548; Apr. 29.
- Grieg, Donald D., Forest Hills, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Demodulator system. 2,421,025; May 27.
- Grieg, Donald D., Forest Hills, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Pulse width modulation multichannel transmitting system. 2,424,977; Aug. 5.
- Grieg, Donald D., Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Radio detection system. 2,426,201; Aug. 26.
- Grieg, Donald D., Forest Hills, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Radio beam controlled indicating instrument. 2,426,203; Aug. 26.
- Grieg, Donald D., Forest Hills, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Discriminator circuits. 2,426,204; Aug. 26.
- Grieg, Donald D., Forest Hills, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Electrical wave analyzing system. 2,423,021; Sept. 30.
- Grieg, Donald D., Forest Hills, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Pulse width multichannel system. 2,429,616; Oct. 28.
- Grieg, Donald D., Forest Hills, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Electrical wave analyzing circuit. 2,431,324; Nov. 25.
- Grieg, Donald D., New York, N. Y., assignor to Federal Telephone and Radio Corporation. Delay circuit. 2,419,546; Apr. 29.
- Grieg, Donald D., and A. M. Levine, Forest Hills, assignors to Federal Telecommunication Laboratories, Inc., New York, N. Y. Pulse selecting circuit for multiplex systems. 2,426,205; Aug. 26.
- Grieshaber, Emil, and W. J. Johnson, Jr., assignors to Nordberg Manufacturing Company, Milwaukee, Wis. Engine and torque transmitter control. 2,421,496; June 3.
- Grieshaber, Emil, and W. J. Johnson, Jr., assignors to Nordberg Manufacturing Company, Milwaukee, Wis. Governor. 2,421,497; June 3.
- Griesinger, John W., Dayton, Ohio, and H. Goldstein, Fairlawn, N. J. Radio reflecting and low drag tow target. 2,419,549; Apr. 29.
- Griesinger, William K.: *See*—  
McCormick, Darwin M., Barbour, and Griesinger.
- Grieveson, John N., Bertrand, Mich., assignor to American Machine and Metals, Inc., New York, N. Y. Program formulator. 2,427,207; Sept. 9.
- Griff, Robert D.: *See*—  
Walz, Claude W., Rasmussen, and Griff.



- Griffeth, Robert L., Delanson, and J. J. Pickney, Ballston Lake, assignors to Mica Insulator Company, Schenectady, N. Y. Electrical insulating material containing mica. 2,420,172; May 6.
- Griffin, Cecil M., Pittsburgh, Pa. Fluid propelled articulated scraper for cleaning tubes. 2,418,509; Apr. 8.
- Griffin Chemical Company, assignee: *See*—  
Ruedrich, Paul M.
- Griffin, Daniel P., Butte, Mont. Guard rail for baby carriages. 2,423,311; July 1.
- Griffin, Edward L., Jr., Philadelphia, Pa., assignor to United States of America, as represented by the Secretary of Agriculture. Process for obtaining rutin from buckwheat. 2,425,094; Aug. 5.
- Griffin, Harry M., Webster Groves, Mo., assignor to Curtiss-Wright Corporation. Forming and shaping tool. 2,432,753; Dec. 16.
- Griffin, James H.: *See*—  
Waldron, Frederic B., and Griffin.
- Griffin, John B., Oakville, Conn., assignor to United States Rubber Company, New York, N. Y. Slide fastener. 2,422,093; June 10.
- Griffin, John B., Oakville, Conn., assignor to United States Rubber Company, New York, N. Y. Slide fastener wear testing machine. 2,429,055; Oct. 14.
- Griffin, Joseph D., Johannesburg, Transvaal, Union of South Africa. Electrical heating apparatus. 2,420,535; May 13.
- Griffin, Roger L., Marblehead, and N. Y. Moore, Danvers, assignors to A. C. Lawrence Leather Company, Peabody, Mass. Paint spraying machine. 2,416,622; Feb. 25.
- Griffin, Timothy G., Bronxville, assignor to Griffin Wellpoint Corporation, New York, N. Y. Pipe fitting. 2,419,069; Apr. 15.
- Griffin Wellpoint Corporation, assignee: *See*—  
Griffin, Timothy G.
- Griffith, Alan A., Derby, England, assignor to Rolls-Royce Limited. Axial-flow compressor, turbine, and the like. 2,414,410; Jan. 14.
- Griffith, Alan A., assignor to Rolls-Royce Limited, Derby, England. Suction pump operating means for removing boundary layer from airplane wings. 2,416,991; Mar. 4.
- Griffith, Alan A., Derby, England. Thrust balancing construction for turbines, compressors, and the like. 2,429,681; Oct. 28.
- Griffith, Clement P., R. B. Pressler, and J. J. Delaney, assignors to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Temperature compensating meter. 2,414,596; Jan. 21.
- Griffith, Frank H., Indiana, Pa. Oil filter and conditioner. 2,432,475; Dec. 9.
- Griffith, Henry E., Hartford, Conn., assignor to Monsanto Chemical Company, St. Louis, Mo. Container. 2,418,172; Apr. 1.
- Griffith Laboratories, Inc., The, assignee: *See*—  
Hall, Lloyd A.
- Griffith, Richard: *See*—  
Sprules, Francis J., and Griffith.
- Griffith, William E., Stone Harbor, N. J. Thermostatic switch. 2,420,775; May 20.
- Griffiths, Charles N.: *See*—  
Carpenter, John H., and Griffiths.
- Griffiths, Francis T., Gravesend, Kent, assignor to W. T. Henley's Telegraph Works Company, Limited, Dorkin, Surrey, England. Extrusion machine. 2,427,960; Sept. 23.
- Griffiths, William T., London, and L. B. Pfeil, Edgbaston, England, assignors to The International Nickel Company, Inc., New York, N. Y. Heat resistant nickel alloys. 2,432,149; Dec. 9.
- Griffoul, Henry M., San Jose, Calif. Rotary drum furnace. 2,423,018; June 24.
- Grigsby, William E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of tertiary ethers. 2,426,015; Aug. 19.
- Grilli, John P.: *See*—  
Mohr, Albert, Jr., and Grilli.
- Grills, Roy E., Memphis, Tenn. Power operated meat saw. 2,430,504; Nov. 11.
- Grim, John M., assignor to American Cyanamid Company, New York, N. Y. Textile finishing composition comprising a methoxymethyl melamine and an aliphatic alcohol having at least eight carbon atoms. 2,426,770; Sept. 2.
- Grimes, Harlan E., Bromley, Ky. Antenna arrangement for induction communication systems. 2,419,833; Apr. 29.
- Grimes, Thaddeus S., Columbus, Ga., assignor to Lummus Cotton Gin Company. Cotton screen. 2,432,235; Dec. 9.
- Grimes, Warren G., Urbana, Ohio. Quick detachable landing light for airplanes. 2,424,688; July 29.
- Grimm, Godfrey, Nutley, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Metal protective pigment. 2,419,017; Apr. 15.
- Grimm, Henry H., Dayton, Ohio, assignor to the United States of America, as represented by the Secretary of War. High frequency ammeter and power meter. 2,423,447; July 8.
- Grimm, William C., and R. H. Linneman, Jersey City, N. J., assignors, by mesne assignments, to General Baking Company, New York, N. Y. Bun making machine. Re. 22,875; May 6.
- Grimmel, Harry W., Easton, and A. Guenther, Riegelsville, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Arylides of ortho-hydroxy carboxylic acid. 2,419,932; Apr. 29.
- Grimshaw, Charles S., Scotia, N. Y., assignor to General Electric Company. Integrator. 2,414,944; Jan. 28.
- Grimson, Samuel B., assignor to Color Research Corporation, New York, N. Y. Photography in additive color by the controlled utilization of chromatic aberrations in lenses. 2,418,345; Apr. 1.
- Grindstaff, Ray A., Spokane, Wash. Rabbit feeder. 2,419,834; Apr. 29.
- Grinnell Corporation, assignee: *See*—  
Boteler, Henry W.
- Grinstead, Carl E.: *See*—  
Martin, Edward J., Frawley, and Grinstead.
- Grip, Erik, and S. Toorell, assignors to Aktiebolaget Facit, Atvidaberg, Sweden. Full cycle positioning means. 2,431,930; Dec. 2.
- Grip Nut Company, assignee: *See*—  
Kass, Lawrence W.
- Griscom-Russell Company, The, assignee: *See*—  
Bruegger, Ernest.
- Griscom, Samuel B., Wilkensburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. High voltage metering apparatus. 2,431,244; Nov. 18.
- Grisdale, George L., Chelmsford, and H. C. Norwood, deceased, late of Chelmsford, England, by William Johnston, executor, Wembley, England, assignors to Radio Corporation of America. Logging scales for radio receivers. 2,431,036; Nov. 18.
- Griswold, Donald G., assignor to Clayton Manufacturing Company, Alhambra, Calif. Anti-siphon valve. 2,417,357; Mar. 11.
- Griswold, Donald G., assignor to Clayton Manufacturing Company, Alhambra, Calif. Nonsurge means. 2,421,325; May 27.
- Griswold, Howard L., assignor to Coast Metals, Inc., Canton, Ohio. Nozzle for sand and shot blasting. 2,428,276; Sept. 30.
- Griswold, Howard L., Canton, and A. T. Cape, Columbus, Ohio, assignors to Coast Reduction, Inc., Watonsville, Calif. Apparatus for effecting chemical reactions. 2,421,120; May 27.
- Griswold, Owen H., Trenton, N. J., assignor of one-half to Kaiser Fleetwings, Inc., and one-half to The Glenn L. Martin Company, Baltimore, Md. Constant volume connection for fluid conduits. 2,417,249; Mar. 11.
- Griswold, Thomas, Jr., and T. H. McConica, III, Midland, Mich., assignors to The Dow Chemical Company. Method and apparatus for condensing metallic vapors. 2,416,255; Feb. 18.
- Griswold, Thomas, Jr., and T. H. McConica, III, Midland, Mich., assignors to The Dow Chemical Company. Method and apparatus for condensing metallic vapors. 2,416,992; Mar. 4.
- Grobowski, Benny T., assignor to The E. T. Rugg Company, Newark, Ohio. Wheel attaching means. 2,432,621; Dec. 16.
- Groebe, John L., W. B. Reeves, and D. C. Campbell, Phillips, Tex., assignors to Phillips Petroleum Company. Reformulation of aluminum halide-hydrocarbon complex catalysts. 2,421,326; May 27.
- Groeger, Alfred H., New Hyde Park, assignor to Kason Hardware Corporation, Brooklyn, N. Y. Lock for refrigerator doors. 2,415,587; Feb. 11.
- Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Lathe transmission and control mechanism. 2,419,639; Apr. 29.
- Groene, William F., assignor to The R. K. Le Blond Machine Tool Co., Cincinnati, Ohio. Orbital lathe feed mechanism. 2,421,147; May 27.
- Groenendyke, Goethe M.: *See*—  
Shimek, Edwin J., and Groenendyke.
- Groetchen, Richard, Chicago, Ill. Cooker. 2,419,261; Apr. 22.
- Groetchen, Richard, Chicago, Ill. Gas burner with superimposed baffle. 2,429,022; Oct. 14.
- Grogan, Elmer H., Danville, Ill. Card stop and release mechanism. 2,415,557; Feb. 11.
- Grogan, Elmer H., Danville, Ill. Automatic photo printer. 2,426,092; Aug. 19.
- Grogan, William B., Long Beach, Calif. Folding shaving brush. 2,418,510; Apr. 8.
- Groh, Melvin S., Preston, Ontario, Canada. Removable refrigerating unit. 2,429,934; Oct. 28.
- Grohskopf, Rudolf: *See*—  
Estes, George R., and Grohskopf.
- Grom, Joseph A.: *See*—  
Turansky, Clement J., and Grom.
- Gromiller, Inc., assignee: *See*—  
Miller, Grover C.
- Gronbeck, John W., Edgewood, R. I. Safety and locking device for a disconnecting switch. 2,427,134; Sept. 9.
- Gronenberg, John E., Chicago, Ill. Device for applying double lip fringe to rugs. 2,428,421; Oct. 7.
- Gronningsaeter, Anto M., New York, N. Y., assignor to Falconbridge Nickel Mines, Limited, Toronto, Ontario, Canada. Production of metals. 2,426,607; Sept. 2.
- Groom, Claude H., Jr.: *See*—  
Alquist, Francis N., Groom, and Haney.
- Groom, William S., Fort Mitchell, Ky. Cigarette box. 2,426,679; Sept. 2.



- Groom, William S., assignor to William Botts, Fort Mitchell, Ky. Cigarette box. 2,429,682; Oct. 28.
- Groombridge, Walter H.: *See*—  
Sharprouse, John H., Hawtin, Downing, and Groombridge.
- Groot, Robert W., Fort Wayne, Ind., assignor to General Electric Company. Lubricant seal. 2,418,707; Apr. 8.
- Groover, Lauren F., assignor of one-half to R. A. Holman, Butler, Pa. Landing gear truck for semitrailers. 2,413,761; Jan. 7.
- Gropius, Walter: *See*—  
Wachsmann, Konrad L., and Gropius.
- Grose, Parlee C., McComb, Ohio. Aircraft utilizing Magnus effect. 2,417,358; Mar. 11.
- Grosch, William L., St. Louis, Mo. Broom handle mounting. 2,429,753; Oct. 28.
- Grosjean, Wilbur V., Omaha, Nebr., assignor to The Union Switch and Signal Company, Swissvale, Pa. Slide fence protection system for railroads. 2,429,056; Oct. 14.
- Gross, Albert, Brooklyn, N. Y. Removable slipper and shoe lining. 2,422,410; June 17.
- Gross, Alex: *See*—  
Gross, Joseph and A.
- Gross, Bernard, San Diego, assignor to Rohr Aircraft Corporation, Chula Vista, Calif. Suction attachment. 2,421,877; June 10.
- Gross, Charles, assignee, trustee, et al.: *See*—  
Cheney, Franklin V.
- Gross, Emil, Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Valve. 2,416,385; Feb. 25.
- Gross, Eschcol S., Long Beach, Calif. Refrigerator port for dispensing container and closure therefor. 2,422,350; June 17.
- Gross, Frederick B.: *See*—  
Maxson, Lisle J., and Gross.
- Gross, Henry B., Chicago, Ill. Apparatus for salvage. 2,421,377; June 3.
- Gross, Henry R., Chicago, Ill. Spot-signal lamp. 2,414,807; Jan. 28.
- Gross, Herman, Detroit, Mich. Fan. 2,417,194; Mar. 11.
- Gross, Joseph and A., Brooklyn, N. Y. Device for illuminating and exhibiting transparencies. 2,418,225; Apr. 1.
- Grosse, Aristid V.: *See*—  
Priest, Homer F., and Grosse.
- Grossman, Darwin A., Elkhart, Ind. Transport blower. 2,421,418; June 3.
- Grossman, Paul R., Cleveland, Ohio, assignor to The Babcock & Wilcox Company, Newark, N. J. Fuel burning method. 2,416,053; Feb. 18.
- Grote Manufacturing Company, The, assignee: *See*—  
Ryder, Charles D.
- Grothey, Ivan W., and F. R. Page, assignors to Scott & Williams, Incorporated, Laconia, N. H. Machine for marking circular knit fabric for boarding. 2,429,458; Oct. 21.
- Group, Max, and J. Schonholtz, New York, N. Y. Watch dial construction. 2,427,961; Sept. 23.
- Grove, Donald E., West Los Angeles, assignor of one-sixth to V. C. Hickson, Los Angeles, Calif. Making containers. 2,416,993; Mar. 4.
- Groven, Fredrick J., Highland Park, and W. F. Pioch, Detroit, assignors to Ford Motor Company, Dearborn, Mich. Apparatus for induction heating of gears and like objects. 2,424,816; July 29.
- Grover, Cyril E., Cheam, England, assignor to The Distillers Company Limited, Edinburgh, Scotland. Production of alcohol and glycerol by fermentation. 2,430,170; Oct. 4.
- Grover, Lyndon V., Los Angeles, Calif. Dry battery casing. 2,431,116; Nov. 18.
- Groves, Henry T., Sacramento, Calif. Inner-spring unit assembly machine. 2,420,423; May 13.
- Groves, Martin V., Brooklyn, N. Y., assignor to The New York Air Brake Company. Air bleeding means for master cylinders. 2,433,213; Dec. 23.
- Grubb, Fred J., Marshall, Mich. Truss pad. 2,422,894; June 24.
- Grubb, Henry W., L. M. O'Hara, and K. Atwood, Louisville, assignors to Joseph E. Seagram & Sons, Inc., Shively, Ky. Esterifying polyhydric organic compounds. 2,426,968; Sept. 2.
- Gruber, Clarence R., Milwaukee, Wis. Hand truck. 2,415,876; Feb. 18.
- Grudin, Daniel, Dayton, Ohio. Two stage varivolume hand pump. 2,430,872; Nov. 18.
- Gruen, Henry, New York, N. Y. Bathtub. 2,431,475; Nov. 25.
- Gruenberg, Ivor J., Pleasant Ridge, assignor to The Gear Grinding Machine Company, Hamtramck, Mich. Over-running clutch. 2,428,968; Oct. 14.
- Gruendler Crusher & Pulverizer Company, assignee: *See*—  
Gruendler, William P.
- Gruendler, William P., Clayton, assignor to Gruendler Crusher & Pulverizer Company, St. Louis, Mo. Mounting for removable screens of hammer mills, grinders, and the like. 2,419,773; Apr. 29.
- Gruenfeld, Julius J.: *See*—  
Granath, Axel G., and Gruenfeld.
- Grunke, Gilbert F., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Preparation of metallic halide-hydrocarbon complex catalyst. 2,418,346; Apr. 1.
- Grumman Aircraft Engineering Corporation, assignee: *See*—  
Hall, Robert L.
- Grummitt, Oliver J.: *See*—  
Ruthruff, Robert F., Grummitt, and Dickinson.
- Grund, Herbert H., Fishtail, Mont. Lariat honda. 2,414,945; Jan. 28.
- Grundmann, Gustave L., Westmont, N. J., assignor to Radio Corporation of America. Synchronizing signal separating circuit. 2,431,037; Nov. 18.
- Grunke, Arnold C., Apollo, and E. R. Muddiman, Wilkesburg, Pa., assignors to Carnegie-Illinois Steel Corporation. Strip coating apparatus. 2,419,070; Apr. 15.
- Grunlan, Magnus A., Brooklyn, N. Y. Eccentric boring tool with means for boring tapers. 2,427,855; Sept. 23.
- Grupe, William F., Lyndhurst, assignor to J. R. Ditmars, New Brunswick, N. J. Machine for coating paper. 2,428,113; Sept. 30.
- Grupp, Herbert C.: *See*—  
Bobaboy, Edward J., and Grupp.
- Grüssner, André: *See*—  
Schneider, Otto, Bourquin, and Grüssner.
- Grynuck, Michael, Los Angeles, Calif. Detachable head wrench. 2,420,132; May 6.
- Grzenia, Mitchell J.: *See*—  
Bartlett, Walter F., and Grzenia.
- Guanella, Gustav: *See*—  
Gabriel, Marcel, and Guanella.
- Guaraldi, Leonard A., Somerville, Mass. Internal-combustion engine. 2,421,198; May 27.
- Guardian Electric Manufacturing Co., assignee: *See*—  
Obszarny, Theodore.
- Guardite Corporation, The, assignee: *See*—  
Baer, John M.
- Baer, John M., and Heineman.
- Heineman, Arnold H.
- Schaffner, Robert M.
- Guarrera, John J., Astoria, N. Y., assignor, by mesne assignments, to the Government of the United States of America, as represented by the Secretary of War. Tube with tunable coaxial resonator. 2,429,811; Oct. 28.
- Gubelmann, William S., Convent, N. J. Printing and feeding means for cash registers. 2,418,027; Mar. 25.
- Gubin, Samuel, Philadelphia, Pa., assignor to Radio Corporation of America. Microwave oscillator. 2,432,193; Dec. 9.
- Gubser, Anton, Riedern, and A. Broder, Sargans, Switzerland. Device for tying wire around an article. 2,421,878; June 10.
- Gudel & Sheppard Co., assignee: *See*—  
Sheppard, Nelson H.
- Gudie, Ray W., Los Angeles, Calif., assignor of one-third to P. E. Wood and one-third to R. F. Thacker. Connector. 2,419,018; Apr. 15.
- Guedel, Robert L., Indianapolis, Ind. Agitating ejector type dental lathe pan. 2,421,498; June 3.
- Guedon, Emile C.: *See*—  
Belar, Herbert, and Guedon.
- Guedon, Emile C., Audubon, N. J., assignor to Radio Corporation of America. Shutter for controlling light along two independent optical paths. 2,421,499; June 3.
- Guell, Charles H., assignor to Eastman Kodak Company, Rochester, N. Y. Positive sound track in multilayer film. 2,430,565; Nov. 11.
- Guellich, Gustav E.: *See*—  
Gradisar, Albin A., and Guellich.
- Guenther, Alfred: *See*—  
Grimmel, Harry W., and Guenther.
- Guenther, Arthur E., and L. B. Molyneux, Buffalo, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Advancing reel threading device. 2,420,537; May 13.
- Guerin, George V., Jr.: *See*—  
Loeffler, Henry S., and Guerin.
- Guerin, Paul R., and H. C. Musgrave, East Cleveland, assignors to Towmotor Corporation, Cleveland, Ohio. Industrial truck. 2,432,411; Dec. 9.
- Guerke, Robert D.: *See*—  
Jarrett, Tracy C., and Guerke.
- Guernsey, Max M., Steilacoom, Wash. Electric plug. 2,417,928; Mar. 25.
- Guerrant, Edmonds L., Fort Worth, Tex. Aircraft landing gear for landing on rails. 2,414,039; Jan. 7.
- Guerrero, Diego, Brooklyn, N. Y. Railroad safety device. 2,426,868; Sept. 2.
- Guest, Howard L.: *See*—  
Salle, Anthony J., and Guest.
- Guest, Howard R., Charleston, W. Va., L. G. MacDowell, Lakeland, Fla., and R. W. McNamee, South Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Ethers of esters of lactic acid. 2,421,378; June 3.
- Guest, Howard R., Charleston, W. Va., L. G. MacDowell, Lakeland, Fla., and R. W. McNamee, South Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Acetals of pyruvic aldehyde. 2,421,559; June 3.
- Guggenheim, Daniel and Florence, Foundation, The, assignee: *See*—  
Goddard, Robert H.



- Guhl, Robert H.: *See*—  
Shipman, Barry, and Guhl.
- Gul, Elmer G., San Diego, Calif. Combination tissue holder and disposal receptacle. 2,415,588; Feb. 11.
- Guiberson Corporation, The, assignee: *See*—  
Taylor, Raymond G., Jr., and Hooser.
- Guibert, Francis W., Beverly Hills, and F. B. Fuller, Whittier, Calif.; said Fuller assignor to said Guibert. Meter seal and stop mechanism. 2,417,108; Mar. 11.
- Guided Radio Corporation, assignee: *See*—  
Dalrymple, Henry C.
- Guidosh, John A.: *See*—  
Leonard, Merrill G., and Guidosh.
- Guidosh, John A., Hubbard, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Torpedo switch. 2,428,565; Oct. 7.
- Guler, William, assignor to Unit Rig & Equipment Company, Tulsa, Okla. Drive unit. 2,427,135; Sept. 9.
- Guillemin, Victor, Jr., Dayton, Ohio. Electrocardiograph. 2,419,682; Apr. 29.
- Guillemin, Victor, Jr., Dayton, Ohio. Controller and indicator for brief electric currents. 2,433,513; Dec. 30.
- Gulden, Ernest B., assignor to The National Cash Register Company, Dayton, Ohio. Electronic device. 2,416,095; Feb. 18.
- Gulden, Ernest V.: *See*—  
Desch, Joseph R., Gulden, and Mumma.  
Mumma, Robert E., and Gulden.
- Gulf Oil Corporation, assignee: *See*—  
Case, Leslie C.  
Franklin, Leslie U.  
Pelletiere, Joseph A.  
Rogers, Hiram M.  
Smith, Herschel G.  
Smith, Herschel G., Cantrell, and Hill.  
Smith, Herschel G., and Hill.  
Smith, Herschel G., Cantrell and Peters.
- Gulf Research Development Company, assignee: *See*—  
Gardner, Louis W.
- Gulf Research & Development Company, assignee: *See*—  
Bowman, John R.  
Fleischer, Fred E.  
McCarthy, Paul R., and Francis.  
McKinley, Joseph B.  
McKinley, Joseph B., and Stevens.  
Rocchini, Albert G., and Pattinson.  
Stillson, Gordon H.  
Teplitz, Abraham J.  
Trautman, Charles E., and Ambrose.  
Whitaker, Arthur C.  
Whitaker, Arthur C., and Weinrich.
- Gulledge, Eugene A.: *See*—  
Snow, Howard, and Gulledge.
- Gumley, Robert H.: *See*—  
Albert, Walter P., Davis, Gumley, and Holden.
- Gump, B. F., Co., assignee: *See*—  
Naeher, Paul, and Williams.
- Gündel, Wolfgang, and E. Götze, Dessau, Germany, assignors by mesne assignments, to The Hydronaphthen Corporation, Wilmington, Del. Manufacture of coated and impregnated materials. 2,423,185; July 1.
- Gunderson, Carl G., assignee, et al.: *See*—  
MacPherson, Floyd.
- Gunderson, Norman R., Glendale, Calif. Apparatus for reproduction of pictorial representations. 2,413,706; Jan. 7.
- Gunn, Townsend M., Attleboro, and W. J. Wilhelm, Plainville, assignors to Metals & Controls Corporation, Attleboro, Mass. Electrical contact. 2,414,463; Jan. 21.
- Gunnell, Robert W., Detroit, Mich., assignor to Industrial Sound Systems, Inc., Cleveland, Ohio. Method and apparatus for producing capsules. 2,428,911; Oct. 14.
- Gunner, George W., Eggertsville, and R. J. Bartholomew, Rochester, N. Y., assignors to Curtiss-Wright Corporation. Machine gun safety device. 2,429,204; Oct. 21.
- Gunness, Robert C., assignor to Standard Oil Company, Chicago, Ill. Process and apparatus for contacting solids and gases. 2,428,872; Oct. 14.
- Gunness, Robert C., Flossmoor, and J. F. Snuggs, assignors to Standard Oil Company, Chicago, Ill. Process and apparatus for catalytic contacting. 2,428,873; Oct. 14.
- Gunter, Addison Y., Larchmont, assignor to American Locomotive Company, New York, N. Y. Fin-tube. 2,424,612; July 29.
- Gunter, Addison Y., Larchmont, and G. B. Farkas, Jackson Heights, assignors to American Locomotive Company, New York, N. Y. Heat exchanger. 2,418,405; Apr. 1.
- Gunther, Frederick F., assignor to Helmeo, Inc., Chicago, Ill. Beverage dispenser. 2,414,521; Jan. 21.
- Gunther, Frederick F., assignor to Helmeo, Inc., Chicago, Ill. Food receptacle in electrically heated stand. 2,414,868; Jan. 28.
- Gunther, Frederick F., assignor to Helmeo, Inc., Chicago, Ill. Electric bottle warmer. 2,424,161; July 15.
- Gunther, Leo A., assignee: *See*—  
Salle, Anthony J., and Guest.
- Gurewitsch, Anatole M., Schenectady, N. Y., assignor to General Electric Company. Tuning and coupling means for high frequency systems. 2,428,622; Oct. 7.
- Gurewitsch, Anatole M., Schenectady, N. Y., assignor to General Electric Company. Electrical connector. 2,432,989; Dec. 23.
- Gurley, Martin H., Jr.: *See*—  
Esselen, Gustavus J., and Gurley.
- Gurney, Dayton A.: *See*—  
Joy, Joseph F., and Gurney.
- Gurries, Albert G., and J. A. White, Jr., Gilroy, Calif.; said White assignor to said Gurries. Self-loading material spreader. 2,419,262; Apr. 22.
- Gurvitch, Joseph E., Hyattsville, assignor to Engineering and Research Corporation, Riverdale, Md. Making articles of compressed and impregnated wood. 2,423,647; July 8.
- Gustafson, August W., Corpus Christi, Tex. Christmas tree stand. 2,424,818; July 29.
- Gustafson, Carl, Lunenburg, Mass. Work or tool holding fixture. 2,429,617; Oct. 28.
- Gustafson, George H., Los Angeles, Calif. Adjustable display holder. 2,428,519; Oct. 7.
- Gustafson, Gilbert E., River Forest, Ill., assignor to Zenith Radio Corporation. Control for discharge devices. 2,426,680; Sept. 2.
- Gustafson, Harry S.: *See*—  
Walker, Charles G., and Gustafson.
- Gustafson, Hilding B.: *See*—  
Behrman, Abraham S., Gustafson, and Hesler.
- Gustafson, Hugo F., Duluth, Minn. Ventilator screen and closure package. 2,419,640; Apr. 29.
- Gustafson, Leslie C., Pontiac, Mich. Bed lamp. 2,418,877; Apr. 15.
- Gustafsson, Elov G. R., Stockholm, Sweden. Marking tool. 2,424,162; July 15.
- Gustafsson, Gotthard V. A., Akeshov, Sweden. Electrical alarm system. 2,422,542; June 17.
- Gustavson, Alvin N., Bemus Point, assignor to Automatic Voting Machine Corporation, Jamestown, N. Y. Voting machine. 2,424,613; July 29.
- Gustin-Bacon Manufacturing Company, assignee: *See*—  
Stephens, Joseph F.
- Gustin, Daniel S., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical device and molded stem therefor. 2,427,096; Sept. 9.
- Gustin, Daniel S., and A. W. Wainio, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrostatic coating apparatus. 2,426,016; Aug. 19.
- Guthrie, Edward S.: *See*—  
Sharp, Paul F., Hand, and Guthrie.
- Guthrie, James E., assignor to Dr. Hess & Clark, Inc., Ashland, Ohio. Taeniacidial mixture. 2,422,411; June 17.
- Guthrie, Walter R.: *See*—  
Thomas, Samuel E., and Guthrie.
- Gutmann, Hanns A., Vineland, N. J. Preserving eggs. 2,421,199; May 27.
- Guttridge, Stanley, Wanstead, London, England. Roller and other skates. 2,424,819; July 29.
- Gutzeit, Gregoire, Westport, Conn. Froth flotation of non-sulfide ores. 2,414,199; Jan. 14.
- Gutzeit, Gregoire, and E. J. Roberts, Westport, and R. B. Thompson, Wilton, Conn., assignors to The Dorr Company, New York, N. Y. Tin ore treatment. 2,413,762; Jan. 7.
- Gutzwiller, Ernst, assignor to Sandoz Limited, Basel Switzerland. Dyestuffs of the anthraquinone series and their manufacture. 2,427,527; Sept. 16.
- Gutzwiller, Ernst, Basel, assignor to Sandoz Ltd., Fribourg, Switzerland. Anthraquinone compounds. 2,433,551; Dec. 30.
- Guy, Hubert G., Pittsburgh, Pa., and H. F. Dietz, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Composition and method. 2,430,332; Nov. 4.
- Guyer, Edwin M., assignor to Corning Glass Works, Corning, N. Y. Apparatus for fire-polishing glass articles. 2,422,482; June 17.
- Guyer, Edwin M., assignor to Corning Glass Works, Corning, N. Y. Glass heating and working. 2,428,969; Oct. 14.
- Guyer, Jesse A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Hydrocarbon conversion process with special arrangement of catalyst. 2,416,003; Feb. 18.
- Guyer, Jesse A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Carbon removal regenerative gas requirements in catalyst reactivation. 2,417,359; Mar. 11.
- Guyer, Jesse A., and L. G. Mollique, Bartlesville, Okla., assignors to Phillips Petroleum Company. Catalyst chamber construction. 2,431,803; Dec. 2.
- Guyer, Reynolds, assignor to Waldorf Paper Products Company, St. Paul, Minn. Reclosing carton. 2,417,550; Mar. 18.
- Guyer, Reynolds, assignor to Waldorf Paper Products Company, St. Paul, Minn. Carton closure. 2,428,845; Oct. 14.
- Guyer, Reynolds, assignor to Waldorf Paper Products Company, St. Paul, Minn. Display container. 2,430,609; Nov. 11.
- Guyer, Reynolds, assignor to Waldorf Paper Products Company, St. Paul, Minn. Carton. 2,430,610; Nov. 11.
- Guyod, Hubert, Houston, Tex. Method and apparatus for logging boreholes. 2,428,155; Sept. 30.



- Gwaltney, Eugene C., R. M. Jones, and J. Rabasa, Biddeford, Maine, assignors to Saco-Lowell Shops, Boston, Mass. Drawing mechanism for spinning and roving frames. 2,430,611; Nov. 11.
- Gwatkin, Valentine, St. Vital, Manitoba, Canada. Woodturning lathe clamp. 2,429,879; Oct. 28.
- Gwinn, Joseph M., Jr., San Diego, Calif. Aircraft control stick. 2,427,962; Sept. 23.
- Gwinn, Joseph M., Jr., San Diego, Calif. Aircraft control surface actuator. 2,432,005; Dec. 2.
- Gwynn, Bernard H., Oakmont, Pa., and E. F. Degering, West Lafayette, assignors to Purdue Research Foundation, La Fayette, Ind. 2-acetoxy-4-methyl-1,3-pentadiene. 2,418,708; Apr. 8.
- Gygi, Helene B., McHenry, assignor to Melville Keim, Chicago, Ill. Stocking guard. 2,422,669; June 24.
- Gyorgy, Paul, Cleveland, Ohio, assignor to Wyeth Incorporated, Philadelphia, Pa. Stabilized fat compositions. 2,420,238; May 6.
- Gysin, Hans: *See—*  
 Martin, Henry, and Gysin.
- Gzemski, Felix C.: *See—*  
 Hersberger, Arthur B., and Gzemski.
- H. F. T. Company, assignee: *See—*  
 Hampton, George B.
- H-P-M Development Corporation, assignee: *See—*  
 Ernst, Walter.  
 Ernst, Walter, and Norman.  
 Geiger, George M.  
 Muller, Johan A.  
 Norman, Richard M.  
 Summers, Otto M.  
 Tucker, Warren R.  
 Tucker, Warren R., and Ernst.  
 Waldie, George A.
- H S B Corporation, assignee: *See—*  
 Razek, Joseph.
- Haag, Oscar, Kusnacht, Switzerland. Producing gatherings. 2,418,347; Apr. 1.
- Haagen-Smit, Arie J., assignor to California Institute Research Foundation, Pasadena, Calif. Dehydrating foodstuffs. 2,421,121; May 27.
- Haantjes, Johan, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Modulation. 2,429,683; Oct. 28.
- Haarhoff, Daniel V., Alorton, Transvaal, assignor to Anti-Abradants (Proprietary) Limited, Johannesburg, Transvaal, Union of South Africa. Protection of pump surfaces. 2,422,412; June 17.
- Haas, Glenn B., Grosse Pointe Park, Mich. Packing and sealing strip for panel members. 2,430,873; Nov. 18.
- Haas, Harold G., Belleville, assignor to Bendix Aviation Corporation, Teterboro, N. J. Electrical regulator. 2,432,883; Dec. 16.
- Haas, Harold G., Belleville, and J. P. Russo, Bloomfield, assignors to Bendix Aviation Corporation, Teterboro, N. J. Electrical regulator. 2,432,884; Dec. 16.
- Haas, Lottie W., New York, N. Y. Sunglasses. 2,426,266; Aug. 26.
- Haas, Otto R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Wax thread sewing machine. 2,415,484; Feb. 11.
- Haag, Walter O., Jr., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Crystal growing apparatus. 2,424,273; July 22.
- Haase, Harold R., River Forest, Ill. Rake. 2,423,772; July 8.
- Habenicht, August F., Tinley Park, Ill. Pressing apparatus. 2,422,895; June 24.
- Habgood, Bernard J., D. A. Harper, and R. J. W. Reynolds, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Paraformaldehyde modified reaction products of diisocyanates with linear polyester polyamide. 2,424,883; July 29.
- Habuda, Martin, St. Catharines, Ontario, Canada. Dimension indicating gauge. 2,415,741; Feb. 11.
- Hachmuth, Karl H., Bartlesville, Okla., assignor to Phillips Petroleum Company. Butadiene separation. 2,415,006; Jan. 28.
- Hack, Nathan, assignor to Hack Shoe Company, Detroit, Mich. Convalescent shoe. 2,420,239; May 6.
- Hack Shoe Company, assignee: *See—*  
 Hack, Nathan.
- Hack, Theodore A.: *See—*  
 Watkins, Franklin M., and Hack.
- Hackethal, Paul F., Cockeysville, assignor to Everel Propeller Corporation, Baltimore, Md. Constant speed propeller mechanism. 2,419,893; Apr. 29.
- Hackethal, Paul F., Cockeysville, assignor to Everel Propeller Corporation, Baltimore, Md. Hub construction. 2,420,424; May 13.
- Hackethal, Paul F., Cockeysville, assignor to Everel Propeller Corporation, Baltimore, Md. Propulsion device. 2,421,692; June 3.
- Hacklander, Hans, Linden, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Bonding machine. 2,432,412; Dec. 9.
- Haddad, Sam: *See—*  
 Brief, Samuel, and Haddad.
- Hadden, Stuart T., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Paraffin alkylation in the presence of hydrogen fluoride. 2,430,333; Nov. 4.
- Haddock, Norman H., A. Parkinson, and G. A. Rowe, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Metal phthalocyanines having amino- or nitro-phenyl groups attached to their aromatic nuclei by  $>O$ ,  $>CO$ , or  $>SO_2$ . 2,414,374; Jan. 14.
- Haddock, Norman H., and C. Wood, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Making phthalocyanines containing  $-SH$  groups. 2,416,386; Feb. 25.
- Haddock, Norman H., and C. Wood, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Making sulfur-containing phthalocyanines. 2,416,387; Feb. 25.
- Haddock, Norman H., W. O. Jones, A. Parkinson, and G. A. Rowe, Blackley, Manchester, England, assignors to Imperial Chemical Industries. Phthalocyanine derivatives. 2,430,052; Nov. 4.
- Hadert, Albert J., Fort Wayne, Ind. Jar or bottle closure. 2,432,236; Dec. 9.
- Hadert, Albert J., Fort Wayne, Ind. Bottle or jar closure. 2,432,237; Dec. 9.
- Hadfield, Bertram M., Harrow Weald, England, assignor to Automatic Electric Laboratories Inc., Chicago, Ill. Electrical signaling system. 2,414,297; Jan. 14.
- Hadfield, Bertram M., Harrow Weald, England, assignor to Automatic Electric Laboratories Inc. Selective electrical circuit. 2,416,096; Feb. 18.
- Hadfield, Bertram M., Harrow Weald, England, assignor to Automatic Electric Laboratories Inc., Chicago, Ill. Electromagnetic relay circuit. 2,421,148; May 27.
- Hadley, Allan M.: *See—*  
 Benner, Howard J., and Hadley.
- Hadley, Benjamin H., Pomona, Calif. Vehicle backup warning device. 2,427,453; Sept. 16.
- Hadley, Benjamin H., Pomona, Calif. Backup warning device. 2,431,117; Nov. 18.
- Haerberlein, Max, Maplewood, assignor to Worthington Pump and Machinery Corporation, Harrison, N. J. Bearing. 2,424,028; July 15.
- Haefele, Walter R., Seaford, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Sizing compositions and yarn sized therewith. 2,421,122; May 27.
- Haefeli, Julius C., Selly Oak, assignor to The Austin Motor Company, Limited, Northfield, Birmingham, England. Exhaust valve of the poppet valve type of internal-combustion engines. 2,427,208; Sept. 9.
- Haef, Andrew V., Washington, D. C., assignor to Radio Corporation of America. Electron discharge device employing resonators. 2,432,571; Dec. 16.
- Haef, Andrew V., Washington, D. C., assignor to Radio Corporation of America. Electron discharge device. 2,433,044; Dec. 23.
- Haehnel, Herbert E.: *See—*  
 Schmidt, Paul, and Haehnel.
- Haehnel, Herbert E., West Reading, assignor to Textile Machine Works, Wyomissing, Pa. Knitting machine and operating same. 2,432,413; Dec. 9.
- Haelen, John C.: *See—*  
 Schubert, Alvin E., and Haelen.
- Haensel, Vladimir, Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Condensation of hydrocarbons. 2,418,028; Mar. 25.
- Haensel, Vladimir, and V. N. Ipatieff, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Production of octenes. 2,421,936; June 10.
- Haensel, Vladimir, and V. N. Ipatieff, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Selective demethylation of paraffinic hydrocarbons. 2,422,670; June 24.
- Haensel, Vladimir, and V. N. Ipatieff, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Process for lowering the molecular weight of nonaromatic hydrocarbons. 2,422,671; June 24.
- Haensel, Vladimir, and V. N. Ipatieff, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Selective demethylation of trimethyl pentanes to form triptane. 2,422,672; June 24.
- Haensel, Vladimir, and V. N. Ipatieff, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of alkyl aromatic hydrocarbons. 2,422,673; June 24.
- Haensel, Vladimir, Clarendon Hills, and V. N. Ipatieff, Chicago, assignors to Universal Oil Products Company, Chicago, Ill. Selected demethylation of saturated hydrocarbons. 2,422,674; June 24.
- Haensel, Vladimir, Clarendon Hills, and V. N. Ipatieff, Chicago, assignors to Universal Oil Products Company, Chicago, Ill. Selected demethylation of saturated hydrocarbons. 2,422,675; June 24.
- Haepf, John C., Jr.: *See—*  
 Score, Leslie H., and Haepf.
- Haeseler, Leonard W., Merchantville, and S. H. Watson, Audubon, N. J., assignors to Radio Corporation of America. Ultra high frequency apparatus. 2,421,784; June 10.
- Haefel, Rolf C., New York, assignor to The Jacobs Bros. Co., Inc., Brooklyn, N. Y. Scale. 2,432,006; Dec. 2.
- Haff, Richard M., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Registering frame and negative carrier for enlarging. 2,418,226; Apr. 1.



- Haff, Richard M., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Registering punch. 2,421,500; June 3.
- Haff, Richard M., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Dye coating composition for color photography. 2,433,811; Dec. 30.
- Häffiger, Franz: *See—*
- Martin, Henry, and Häffiger.
- Martin, Henry, Häffiger, and Gützl.
- Martin, Henry, Häffiger, and Neracher.
- Hafner Associates, Inc., assignee: *See—*
- Welti, Edward.
- Hagadorn, Elmore W., Solvay, N. Y. Electrically heated tool. 2,427,209; Sept. 9.
- Hagaman, Albert T., assignor of one-third to G. D. Brown, Gauley Bridge, W. Va. Ice chipping machine. 2,422,094; June 10.
- Hagan Corporation, assignee: *See—*
- Vetter, Otto B.
- Hagberg, Verner J.: *See—*
- Hendrickson, Harold G., and Hagberg.
- Hagby, Gustav: *See—*
- Dalin, David, and Hagby.
- Hagedorn, Charles V., assignor to Huron Milling Company, Inc., Harbor Beach, Mich. Drying wheat gluten. 2,427,276; Sept. 9.
- Hagemann, John R.: *See—*
- Kenney, Clarence E., and Hagemann.
- Hagemann, John R., Wauwatosa, and J. A. Johnson, West Milwaukee, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Nozzle construction. 2,417,486; Mar. 18.
- Hagemeyer, Hugh J., Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Preparation of methyl acrylate. 2,417,748; Mar. 18.
- Hagemeyer, Hugh J., Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Preparation of olefinic nitriles by dehydration with acetic anhydride. 2,417,749; Mar. 18.
- Hagen, Clarence R.: *See—*
- Baker, David B., and Hagen.
- Hagen, Harold F., Wellesley, and J. L. Bartlett, Jr., Westwood, Mass., assignors, by mesne assignments, to Westinghouse Electric Corporation. Supercharger. 2,427,136; Sept. 9.
- Hagen, Harold L., Buffalo, N. Y. Dispensing apparatus. 2,414,375; Jan. 14.
- Hagenook, Loy D., assignor to Goodman Manufacturing Company, Chicago, Ill. Shaker conveyer. 2,424,394; July 22.
- Hagenstad, Roy: *See—*
- Nordgren, Elmer W., and Hagenstad.
- Häger, Bror O., assignor to Bolidens Gruvaktiebolag, Stockholm, Sweden. Wood impregnating solutions containing heavy metal compounds with arsenic and chromic acids. 2,432,007; Dec. 2.
- Häger, Bror O., and S. Bertilsson Kjellström, assignors to Bolidens Gruvaktiebolag, Stockholm, Sweden. Process and device for full cell treatment of timber and similar material. 2,432,008; Dec. 2.
- Hager, Hans G.: *See—*
- Bosomworth, George P., and Hager.
- Hager, Onslow B., Glenside, and L. H. Bock, Huntingdon Valley, assignors to Röhm & Haas Company, Philadelphia, Pa. Carboxyalkyl cellulose ether fibers and films of good wet strength. 2,420,949; May 20.
- Hagerbaumer, William A.: *See—*
- Sinclair, Edward L., and Hagerbaumer.
- Haggerty, William B., Tampa, Fla. Prevention of frost on refrigerator doors. 2,420,240; May 6.
- Hagglund, Reynold R.: *See—*
- Miller, Arthur S., Frank, and Hagglund.
- Hagler, Bub A., Charlotte, N. C. Warp strumming apparatus. 2,426,553; Aug. 26.
- Hagler, Marshal E., assignor to National Southern Products Corporation, Tuscaloosa, Ala. Ventilating unit. 2,430,225; Nov. 4.
- Hagner, Frederick H., San Antonio, Tex. Navigational globe. 2,429,754; Oct. 28.
- Hagner, Frederick H., San Antonio, Tex. Pendulous operated azimuth and zenith recording means. 2,430,814; Nov. 11.
- Hagren, Nils U.: *See—*
- Alexander, Harold V., and Hagren.
- Hagstrom, Gotthard, Berlin, assignor, by mesne assignments, to Pet-Car Grinding Co., New Haven, Conn. Convertible doorstop. 2,432,150; Dec. 9.
- Hagstrom, Jerome E., assignor to C. E. Hovey, Kansas City, Mo., as trustee. Constant level tank for vending machines. 2,418,300; Apr. 1.
- Hagstrum, Homer D., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Tuner for multi-resonator. 2,418,469; Apr. 8.
- Hague, Floyd T., Drexel Hill, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Making cast turbine blading. 2,422,193; June 17.
- Hagy, James D.: *See—*
- McCorquodale, Wilmer E., Jr., Magill, and Hagy.
- Hahn, Lewis F., Hatboro, Pa. Container for spark plugs. 2,415,589; Feb. 11.
- Hatch, Joe, East Chicago, Ind. Reclining rocking chair. 2,414,298; Jan. 14.
- Halg, Paul, Chicago, Ill., M. Schillo, East Chicago, and J. Tompkins, Highland, Ind., assignors to Inland Steel Company, Chicago, Ill. Landing gear for trailers and the like. 2,431,245; Nov. 18.
- Haigh, Leslie B.: *See—*
- Skinker, Murray F., and Haigh.
- Haight, Hiram H., Wauwatosa, Wis. Gear pump. 2,433,360; Dec. 30.
- Haight, Stanley M., U. S. Navy. Flt gun. 2,423,448; July 8.
- Haigney, John E., Brooklyn, N. Y. Projectile. 2,415,348; Feb. 4.
- Halm, Georg, and H. P. Zade, assignors to Arc Manufacturing Company Limited, London, England. Terminal joint for electric cable with plastic sheath. 2,425,528; Aug. 12.
- Hain, Malcolm, Montclair, N. J. Manufacture of yarn. 2,413,967; Jan. 7.
- Hain, Malcolm, Montclair, N. J. Manufacture of yarn. 2,419,774; Apr. 29.
- Haine, Michael E., J. M. Meek, and J. D. Craggs, Sale, assignors to Metropolitan-Vickers Electrical Company Limited, London, England. Spark gap electrical apparatus. 2,433,755; Dec. 30.
- Haine, Michael E., J. M. Meek, and J. D. Craggs, Sale, assignors to Metropolitan-Vickers Electrical Company Limited, London, England. Spark gap electrical apparatus. 2,433,756; Dec. 30.
- Haines, David T., Sr., Dallas, Tex. Shaker for burring small parts. 2,423,019; June 24.
- Haines, John F., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Propeller control. 2,417,870; Mar. 25.
- Haines, John F., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Propeller pitch control. 2,424,749; July 29.
- Haines, John F., and T. B. Martin, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Hydraulic regulator mechanism. 2,427,779; Sept. 23.
- Haines, Julius H.: *See—*
- Nagle, Harold W., and Haines.
- Haines, Malcolm E., assignor to The McDowell & Torrence Lumber Company, Xenia, Ohio. Air conditioning of buildings by passing air through hollow foundation blocks. 2,427,780; Sept. 23.
- Haines, Paul G.: *See—*
- Woodward, Charles F., Badgett, and Haines.
- Haines, Walter L.: *See—*
- Holanbek, Gust J., and Haines.
- Haino, Reinhold, Bronx, N. Y. Electric soldering iron. 2,432,009; Dec. 2.
- Hair, Charles E., assignee, et al.: *See—*
- Hair, Richard T., and Ball.
- Hair, Charles E., Benton, Ill. Coal-mining machine. 2,425,467; Aug. 12.
- Hair, Richard T., and C. F. Ball, Franklin, Pa., assignors to R. T. and C. E. Hair, and Binkley Mining Co. of Indiana, Chicago, Ill. Coal-mining machine. 2,425,468; Aug. 12.
- Haire, John C., Arp, Tex. Chest and pump hanger bracket for antiaircraft machine gun mounts. 2,429,618; Oct. 28.
- Haislip, Robert L.: *See—*
- Mosena, Roscoe L., Traylor, Haislip, and Hall.
- Hait, Howard, Philadelphia, Pa. Cup container, dispenser-disposer. 2,418,227; Apr. 1.
- Hajek, Joseph, Mars, Pa. Band saw apparatus. 2,415,877; Feb. 18.
- Hake, Elmer C., Covington, Ky., assignor, by mesne assignments, to Spray-Omatic Products Company, Cincinnati, Ohio. Ticket applying machine. 2,422,543; June 17.
- Halbert, Joseph, and R. R. Rawson, Haltwhistle, assignors to Sheepbridge Stokes Centrifugal Castings Company Limited, Chesterfield, England. Prevention of ice formation on aircraft. 2,433,214; Dec. 23.
- Halbrook, Warwick W., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Geared speed reducer with means for adjusting backlash. 2,424,564; July 29.
- Hale, Douglas A. S., Ramsey, N. J., and V. L. Ronci, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,418,117; Apr. 1.
- Hale, Frank B., Bel Air, Md. Fuse. 2,420,662; May 20.
- Hale, Frank R., Paterson, N. J., assignor to Futura, Inc. Salt-and-pepper shaker. 2,424,978; Aug. 5.
- Hale, George C., Dover, N. J. Preparation of ethyleneurea. 2,430,874; Nov. 18.
- Hale, John H., Detroit, Mich. Floating skimmer trough. 2,427,102; Sept. 9.
- Hale, William J., Midland, Mich., assignor to National Agrol Company, Inc., Washington, D. C. Dehydration. 2,415,878; Feb. 18.
- Hale, William J., Midland, Mich., and H. Miller, Columbia, Mo., assignors to National Agrol Company, Inc., Washington, D. C. Production of butadiene by dehydration. 2,420,477; May 13.
- Hale, William J., Midland, Mich., and H. Miller, Columbia, Mo., assignors to National Agrol Company, Inc., Washington, D. C. Producing butadiene. 2,426,450; Aug. 26.



- Hales, John S., Kingston-on-Thames, E. Murphy, London, and L. MacDonald, Ewell, assignors to C. U. R. A. Patents Limited, London, England. Open fireplace installation. 2,423,235; July 1.
- Hales, Ralph A., West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del. Continuous process for oxidizing carbohydrates to tartaric acid. 2,419,019; Apr. 15.
- Hales, Ralph A., West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del. Calcium tartrate recovery process. 2,419,020; Apr. 15.
- Haley, Arthur W.: *See*—  
Anderson, William B., Haley and Kelly.
- Haley Cate Company, Inc., assignee: *See*—  
Stuart, Ethan A.
- Haley, Frank L.: *See*—  
Herrmann, Dorothy, and Haley.
- Halford, Frank B., assignor to The De Havilland Aircraft Company Limited, Edgware, England. Rotary compressor. 2,422,615; June 17.
- Halford, Frank B., assignor to The De Havilland Aircraft Company Limited, Edgware, England. Shaft bearing. 2,423,973; July 15.
- Halfpap, William G., and A. R. Buchholz, assignors to Brandt Automatic Cashier Company, Watertown, Wis. Coin counting machine. 2,432,010; Dec. 2.
- Halko, William, Vancouver, British Columbia, Canada. Daily and weekly time recorder. 2,433,118; Dec. 23.
- Hall, Alvin E.: *See*—  
Mosena, Roscoe L., Traylor, Haislip, and Hall.
- Hall, Anna F., Ansonia, Conn. Protector hood. 2,432,311; Dec. 9.
- Hall, Arthur O., assignee: *See*—  
Boskovich, Milan N.
- Hall, C. F., Company, The, assignee: *See*—  
Bearse, Arthur E.  
Bears, Arthur E., and Cruse.
- Hall, Calvin E., St. Clair Shores, assignor to Michigan Tool Company, Detroit, Mich. Machine for grinding long radius arcs. 2,428,215; Sept. 30.
- Hall, Chester I., Vischer's Ferry, N. Y., assignor to General Electric Company. Electromagnet. 2,419,071; Apr. 15.
- Hall, Chester I., Vischer's Ferry, N. Y., assignor to General Electric Company. Electric switch. 2,419,072; Apr. 15.
- Hall China Company, The, assignee: *See*—  
Dorff, Russell S.
- Hall, Clinton S., Farmington, Mich. Lathe dog. 2,421,200; May 27.
- Hall, Cortice H., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Overload release mechanism. 2,425,736; Aug. 19.
- Hall, Cortice H., Birmingham, assignor to The Timken-Detroit Axle Company, Detroit, Mich. Chain conveyor. 2,426,998; Sept. 9.
- Hall, Edgar C., Los Angeles, Calif. Dry shaver. 2,423,595; July 8.
- Hall, Edwin L.: *See*—  
Chaney, Newcomb K., and Hall.
- Hall, Edwin L., Manchester, N. H., and H. R. Batchelder, Drexel Hill, Pa., assignors to The United Gas Improvement Company. Residual tar separated from tar-water emulsion. 2,423,424; July 1.
- Hall, Edwin S., Farmington, Conn. Cam engine. 2,417,487; Mar. 18.
- Hall, Elisha W., Scituate, Mass. Rotary abrading tool. 2,417,645; Mar. 18.
- Hall, Elisha W., Scituate, Mass. Brush and making same. 2,417,750; Mar. 18.
- Hall, Elisha W., Scituate, Mass. Scrubbing implement. 2,427,137; Sept. 9.
- Hall, Eric V., Hull, assignor to Blackburn Aircraft Limited, Brough, England. Spring clip for securing conduits, wiring, and the like to structural parts. 2,419,317; Apr. 22.
- Hall, Erik H.: *See*—  
Van Sickle, Roswell C., Baker, and Hall.
- Hall, Erik H., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Gas blast circuit interrupter. 2,414,522; Jan. 21.
- Hall, Gustave A., Racine, Wis. Pressure relief stopper for containers. 2,428,114; Sept. 30.
- Hall, Harry E.: *See*—  
MacKenzie, Neal T., and Hall.
- Hall, Harry T.: *See*—  
Strohecker, Henry R., and Hall.
- Hall, Mrs. Helen J., Jr., assignee: *See*—  
Hall, Willard C., Jr.
- Hall, Homer J., Cranford, N. J., assignor to Standard Oil Development Company. Treating hydrocarbon fluids. 2,421,614; June 3.
- Hall, Horace E.: *See*—  
Boehm, Robert M., and Hall.  
Boehm, Robert M., Hall, and MacDonald.
- Hall, Hugh M., White Swan, Wash. Irrigation ditch plow. 2,424,820; July 29.
- Hall, Jawn R., assignor of eighty-five per cent to R. H. Drew, San Jose, Calif. Motor rail. 2,433,693; Dec. 30.
- Hall, John A., Summit, and W. P. Mason, West Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Delay device. 2,421,026; May 27.
- Hall, John M., New York, N. Y. Ice refrigerator with an air pump circuit. 2,432,011; Dec. 2.
- Hall, Kenneth J., Worcester, Mass. Aligning toolholder. 2,431,476; Nov. 25.
- Hall Laboratories, Inc., assignee: *See*—  
Hall, Ralph E., and Munter.  
Horvath, Artemy A.  
Jackson, Henry A.  
Martello, Norman E.  
Smith, George W.
- Hall, Leo C., Cincinnati, Ohio. Controller system for electric welding apparatus. 2,425,183; Aug. 5.
- Hall, Lloyd A., assignor to The Griffith Laboratories, Inc., Chicago, Ill. Production of protein hydrolysate flavoring material. 2,414,299; Jan. 14.
- Hall, Marcus A., Bethany, assignor, by mesne assignments, to Churchward & Company, Incorporated, West Haven, Conn. Engine mounting. 2,431,931; Dec. 2.
- Hall, Mark M., Prescott, assignor of one-third to D. F. Reeves, Phoenix, Ariz. Cable anchor for winches. 2,420,594; May 13.
- Hall, Maynard G., Rutherford, assignor, by mesne assignments, to Empire Box Corporation, Garfield, N. J. Fibreboard bottle carrier having partition members. 2,431,932; Dec. 2.
- Hall, Nelson, Detroit, Mich. Locator utilizable in forming metal articles. 2,419,134; Apr. 15.
- Hall, Preston M., Worcester, Mass. Electrode trimmer. 2,418,767; Apr. 8.
- Hall, Ralph E., and C. J. Munter, Mount Lebanon, assignors to Hall Laboratories, Inc., Pittsburgh, Pa. Water-soluble glass composition. 2,426,394; Aug. 26.
- Hall, Richard R.: *See*—  
Anderson, Nelson, and Hall.
- Hall, Robert L., Huntington, assignor to Grumman Aircraft Engineering Corporation, Bethpage, N. Y. Fluid pressure control valve. 2,420,313; May 13.
- Hall, Robert S., Chicago, Ill. Nut splitting device. 2,414,149; Jan. 14.
- Hall, Ronald B., Coventry, assignor to Courtaulds Limited, London, England. Manufacture of alginate threads. 2,423,075; June 24.
- Hall, Roy D., Pottersville, and J. H. Ramage, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Consolidation of metal powder. 2,431,690; Dec. 2.
- Hall, Russell M., assignor to Philco Corporation, Philadelphia, Pa. Shelf structure. 2,420,173; May 6.
- Hall, Thomas L.: *See*—  
Waldron, Richard C., and Hall.
- Hall, W. F., Printing Company, assignee: *See*—  
Wendt, Elmer E.
- Hall, Walter E., Wood River, Ill., assignor to Shell Development Company, San Francisco, Calif. Insect control. 2,416,004; Feb. 18.
- Hall, Willard C., Jr., assignor to Mrs. H. J. Hall, Jr., Los Angeles, Calif. Induction device. 2,415,688; Feb. 11.
- Hall, William J., Detroit, Mich., assignor to Great Lakes Steel Corporation. Metal nailing beam. 2,425,798; Aug. 19.
- Hall, William M.: *See*—  
Barrow, Wilmer L., and Hall.
- Hallanan, Edwin R., Staten Island, N. Y. Domestic washing machine for clothes, dishes, and the like. 2,431,246; Nov. 18.
- Hallander, Edward, Glen Ridge, N. J. Notching press. 2,433,117; Dec. 23.
- Hallborg, Henry E., Upper Montclair, N. J., and G. R. Clark, Richmond, N. Y., assignors to Radio Corporation of America. Facsimile synchronizing system. 2,425,616; Aug. 12.
- Hallead, Mervil, assignor to The Karl Kiefer Machine Company, Cincinnati, Ohio. Pressure operated valve device for filling containers. 2,413,916; Jan. 7.
- Hallead, Mervil, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Propeller mounting. 2,424,456; July 22.
- Hallen, Ralph R.: *See*—  
Wiler, Edward M., and Hallen.
- Haller, Cecil E., Bloomfield, N. J., assignor to Radio Corporation of America. Ultra high frequency oscillator and amplifier. 2,415,485; Feb. 11.
- Haller, Herbert L. J.: *See*—  
Gertler, Samuel L., and Haller.
- Haller, Herbert L. J., Washington, D. C., assignor to The United States of America, as represented by the Secretary of Agriculture. Cyclopropyl alkyl ethers as insecticides. 2,424,029; July 15.
- Haller, John, Northville, Mich. Agitating machine. 2,428,492; Oct. 7.
- Haller, John, Northville, Mich. Stock feeding mechanism for punching, stamping, and cutting machines. 2,428,493; Oct. 7.
- Haller, John, Northville, Mich. Scrap cutter. 2,431,869; Dec. 2.
- Haller, John, Northville, and L. V. Thompson, assignors to Steel Tank Corporation, Detroit, Mich. Vertical cutting machine. 2,422,095; June 10.
- Hallerman, Walter V., assignee: *See*—  
Comstock, Emery F.
- Hallerstrom, Harold C., Evanston, assignor to Hanna Engineering Works, Chicago, Ill. Speed control valve. 2,418,634; Apr. 8.



- Hallewell, George, assignor to Blackstone & Company Limited, Stamford, England. Dynamo electric machinery and prime movers therefor. 2,416,005; Feb. 18.
- Halliburton Oil Well Cementing Company, assignee: *See—*
- Anderson, Francis M.  
Hassler, Norman A.  
Savitz, Christian W.
- Halliss, Maurice M., Kew Gardens, N. Y. Self-adjusting man's garter. 2,418,768; Apr. 8.
- Hallman, Eric B., assignor to Electric Service Manufacturing Company, Philadelphia, Pa. Vehicle exterior lighting unit. 2,432,754; Dec. 16.
- Hallman, John W., assignee: *See—*  
Hallman, Rex L.
- Hallman, Rex L., Milford, assignor of thirty percent to J. W. Hallman, Devon, Conn. Strip working apparatus. 2,423,698; July 8.
- Hallmark, Clyde E., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Television synchronizing signal generator. 2,422,236; June 17.
- Hallmark, Clyde E., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Video signal modulator. 2,429,755; Oct. 28.
- Hallmark, Ples C., Florence, and W. B. Hallmark, Belton, Tex. Vehicle-operated gate. 2,432,881; Dec. 16.
- Hallmark, Wyatt B.: *See—*  
Hallmark, Ples C. and W. B.
- Hallner, Dwight E., Merced County, Calif. Drawbar unit. 2,417,646; Mar. 18.
- Hallock, Robert L., Larchmont, N. Y., assignor to Elastic Stop Nut Corporation of America, Union Township, N. J. Fastening means. 2,421,201; May 27.
- Hallock, Robert L., Larchmont, N. Y., assignor to Elastic Stop Nut Corporation of America, Union, N. J. Installing fastening means. 2,433,607; Dec. 30.
- Hallowell, Alban T., Brandywine Hundred, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of N-alkyl glycolines. 2,413,968; Jan. 7.
- Hallowell, Alban T., and H. D. Foster, Wilmington, Del., and A. W. Larchar, Mendenhall, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Granular N-substituted polyamides. 2,430,875; Nov. 18.
- Hallowell, Howard T., Jr., assignor to Pennsylvania Manufacturing Company, Jenkintown, Pa. Traversing and indexing device. 2,421,327; May 27.
- Hallowell, Howard T., Jr., assignor to Pennsylvania Manufacturing Company, Jenkintown, Pa. Depositing device for plastic materials. 2,426,969; Sept. 2.
- Hallstrand, Eric A., Stratford, Conn., assignor to General Electric Company. Rotating joint for concentric cables. 2,422,961; June 24.
- Hallstream, Harold H., Waquoit, Mass. Adjustable can holder. 2,426,682; Sept. 2.
- Hallwood, Harold S., administrator: *See—*  
Hallwood, Nathan A.
- Hallwood, Nathan A., deceased, Columbus, Ohio; H. S. Hallwood, administrator. Air filter for carburetors. 2,420,822; May 20.
- Halm, Alfred: *See—*  
Thommen, Hans, and Halm.
- Halm, Herman J., Toledo, Ohio. Cap removing socket wrench. 2,423,145; July 1.
- Haloid Company, The, assignee: *See—*  
Sabel, Edward R., and Galbrecht.
- Halperin, Daniel, Brooklyn, N. Y. Cover securing means for infants. 2,433,273; Dec. 23.
- Halpert, Percy: *See—*  
Frische, Carl A., Halpert, and Wilkerson.  
Harcum, William M., and Halpert.
- Halpert, Percy, Kew Gardens, C. A. Frische and J. L. Bird, Lake Success, and O. E. Esval, Huntington, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Electrical control system. 2,415,819; Feb. 18.
- Halpert, Percy, Kew Gardens, and C. A. Frische, Great Neck, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Control unit for hydraulic servomotors. 2,426,608; Sept. 2.
- Halstead, J. W., assignee, et al.: *See—*  
Bowles, John W.
- Halstead, John F., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Leaf separator. 2,416,173; Feb. 18.
- Halsted, Hal F.: *See—*  
Glass, Mansfield D., Dalrymple, and Halsted.
- Halverson, Olaf, Valparaiso, Ind. Pipe bowl cleaner. 2,427,856; Sept. 23.
- Halvorsen, Mithander C.: *See—*  
Barnard, Charles D., and Halvorsen.
- Ham, Garnet P.: *See—*  
Barnes, Robert B., and Ham.
- Ham, Garnet P., Old Greenwich, and R. B. Barnes, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Removing bacteria from fluids. 2,428,328; Sept. 30.
- Ham, Garnet P., Old Greenwich, and R. B. Barnes, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Removal of bacteria from fluids. 2,428,329; Sept. 30.
- Hamalainen, Carl: *See—*  
Georges, Louis W., and Hamalainen.
- Haman, Howard H., and J. A. Ritzler, assignor to The Warren Featherbone Co., Three Oaks, Mich. Means for producing a waterproof seam for polyvinyl resinous coated fabrics. 2,422,676; June 24.
- Hamberger, Henry A., Rochester, N. Y. Chuck adjusting device. 2,423,312; July 1.
- Hamblen, Jennings B.: *See—*  
Kirkbride, Chalmers G., and Hamblen.
- Hamblet, Clement H.: *See—*  
Weber, Arthur G., and Hamblet.
- Hamblet, Clement H., Gordon Heights, and A. McAlevy, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing 1,3-butylene glycol. 2,426,017; Aug. 19.
- Hamblin, Barbara, assignee, et al.: *See—*  
Hamblin, Clyde M.
- Hamblin, Clyde M., Washington, D. C. Air conditioning system. 2,429,619; Oct. 28.
- Hamblin, Clyde M., assignor of one-fifth to E. F. Hamblin, one-fifth to H. L. Hamblin, and one-fifth to B. Hamblin, Washington, D. C. Convection heating apparatus. 2,423,974; July 15.
- Hamblin, Eva F., assignee, et al.: *See—*  
Hamblin, Clyde M.
- Hamblin, Helen L., assignee, et al.: *See—*  
Hamblin, Clyde M.
- Hamer, Leland S., Long Beach, Calif. Plug valve. 2,421,879; June 10.
- Hamer, Leland S., Long Beach, Calif. Construction for pipe-line fittings. 2,425,934; Aug. 19.
- Hamer, Leland S., Long Beach, assignor to Falcon Products, Inc., Los Angeles, Calif. Valve. 2,413,869; Jan. 7.
- Hamill, John, New York, N. Y. Coating composition. 2,427,857; Sept. 23.
- Hamill, Ray E., assignor to Marvil Package Company, Laurel, Del. Wood treatment. 2,414,808; Jan. 28.
- Hamill, Ret O., Elmhurst, N. Y. Demand meter. 2,424,689; July 29.
- Hamilton, Arthur L., Richmond, and R. L. Palmer, Berkeley, assignors to Rheem Manufacturing Company, Richmond, Calif. Fibre container. 2,427,138; Sept. 9.
- Hamilton, Carl C.: *See—*  
Iager, Raymond F., and Hamilton.
- Hamilton, Donald R.: *See—*  
Snow, Donald L., Ginzton, and Hamilton.  
Varian, Sigurd F., and Hamilton.
- Hamilton, Francis E., Endicott, and B. M. Durfee, Binghamton, assignors to International Business Machines Corporation, New York, N. Y. Record controlled dividing machine. 2,424,091; July 15.
- Hamilton, George M., assignor to Callender's Cable & Construction Company Limited, London, England. Electrical insulating compounds. 2,414,300; Jan. 14.
- Hamilton, George M., assignor to Callender's Cable & Construction Company Limited, London, England. Electric cable. 2,415,486; Feb. 11.
- Hamilton, Harry C., Compton, Calif. Shaft seal. 2,424,690; July 29.
- Hamilton, J. Herbert, Auburn, Maine. Multiple hanger rack. 2,418,635; Apr. 8.
- Hamilton, James C., Lexington, assignor to Photoswitch, Incorporated, Cambridge, Mass. Electric switch. 2,418,831; Apr. 15.
- Hamilton, James K., Plainfield, N. J., assignor to Air Reduction Company, Incorporated. Pressure relief valve. 2,420,370; May 13.
- Hamilton, John C., Merced, Calif. Wiener roasting clamp. 2,425,799; Aug. 19.
- Hamilton, John P., Buffalo, N. Y., assignor to Carbide and Carbon Chemical Corporation. Recovery of polymerized olefines. 2,433,045; Dec. 23.
- Hamilton, Julian P., Pelly, and A. C. Rubey, Jr., Baytown, Tex., assignors to Standard Oil Development Company. Catalytic cracking process. 2,426,869; Sept. 2.
- Hamilton, Karl M., Chicago, Ill. Railroad car truck. 2,423,313; July 1.
- Hamilton, Leon H., Waterbury, Conn. Dental appliance. 2,417,682; Mar. 18.
- Hamilton, Liday E., Sr.: *See—*  
Ayers, Alvin N., and Hamilton.
- Hamilton, Lyle A., Pitman, and C. J. Pedersen, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Condensation products of tri-(Beta-aminoethyl)-amine and ortho-hydroxy aromatic carbonyls. 2,426,206; Aug. 26.
- Hamilton Manufacturing Company, assignee: *See—*  
Merrett, Earle E., and Froelich.
- Hamilton, Munroe H., assignee: *See—*  
Bowers, Thomas A.
- Hamilton, Thomas W., and E. P. Anstett, assignors to Spotnails, Inc., Chicago, Ill. Nail driving machine. 2,418,113; Apr. 1.
- Hamilton, Vivian E., Jr., Shreveport, La. Cable for reinforcing pipe during bending operation. 2,425,800; Aug. 19.
- Hamilton Watch Company, assignee: *See—*  
Drescher, Ernest W.  
Le Van, James O.  
Luckey, George P.  
Luckey, George P., and Schwalm.
- Hamilton, William F., Altadena, assignor to F. M. Turnbull, Los Angeles, Calif. Stabilized solutions of local anesthetics. 2,431,553; Nov. 25.



- Hammack, Kenneth D., Missouri Valley, Iowa. Invalid's chair with brake. 2,426,451; Aug. 26.
- Hammel, Reglander & Co. Inc., assignee: *See*—Scardaccione, Edward.
- Hammell, Kemper M.: *See*—Coss, George R., and Hammell.
- Hammer, Bernard W.: *See*—Horneman, Herman C., Hussong, Quam, and Hammer.
- Hammer, Edwin M., Rockford, Ill. Fluid mixing apparatus. 2,424,163; July 15.
- Hammer, Oscar H., South Haven, assignor to The Dow Chemical Company, Midland, Mich. Controlling parasites in soil. 2,419,073; Apr. 15.
- Hammer, William H., assignee, et al.: *See*—Christiansen, Frederick A.
- Hammermiller, Theodore F., Buffalo, N. Y. Stand or carrier for outboard motors. 2,414,946; Jan. 28.
- Hammerstein, Arthur, Palatine, Ill. Dispensing device. 2,425,313; Aug. 12.
- Hammerstein, Fred J.: *See*—Schopmeyer, Herman H., Hammerstein, and Larmouth.
- Hammond, Charles F., and A. McK. Cameron, assignors to Atlas Steels Limited, Welland, Ontario, Canada. Drill steel rod. 2,424,092; July 15.
- Hammond Instrument Company, assignee: *See*—Hanert, John M.
- Hanert, John M., and Hancock.
- Hammond, John H., Jr., Gloucester, Mass., assignor to the United States of America, as represented by the Secretary of the Navy. Torpedo control valve. 2,420,241; May 6.
- Hammond, John W., Towson, Md., assignor to Bendix Aviation Corporation, New York, N. Y. Antenna loading apparatus. 2,414,809; Jan. 28.
- Hammond, Laurens, Chicago, Ill. Radiant energy detecting and control apparatus. 2,413,870; Jan. 7.
- Hammond, Laurens, Chicago, Ill. Radiant energy detecting apparatus. 2,423,885; July 15.
- Hammond, Laurens, Chicago, Ill. Amplifying system. 2,432,151; Dec. 9.
- Hammond, Thomas A., Fairfield, Ohio. Automatic lock for jacks. 2,432,096; Dec. 9.
- Hampel, Clifford A., Harvey, Ill., assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Shellac refining. 2,429,317; Oct. 21.
- Hampel, Clifford A., Harvey, Ill., assignor to The Mathieson Alkali Works Inc., New York, N. Y. Bleaching fatty acid compounds with chlorite and aldehyde. 2,430,675; Nov. 11.
- Hampel, Clifford A., Painesville, Ohio, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Bleaching. 2,430,674; Nov. 11.
- Hampel, Clifford A., Painesville, Ohio, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Bleaching. 2,433,661; Dec. 30.
- Hampel, Clifford A., assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Chlorite bleaching of fatty acid compounds. 2,433,662; Dec. 30.
- Hampton, Burt L., Jacksonville, Fla., assignor, by mesne assignments, to The Glidden Company, Cleveland, Ohio. Polymerization of rosin. 2,424,979; Aug. 5.
- Hampton, Durward B., assignor of forty-eight per cent to C. G. Holme, Sebastopol, Calif. Trap. 2,420,371; May 13.
- Hampton, George B., Spokane, Wash., assignor to H. F. T. Company. Combination chair and table for body massaging and muscle manipulation. 2,427,053; Sept. 9.
- Hampton, Wilfred M.: *See*—Bastick, Raymond E., and Hampton.
- Hampton, Willard F., Hutchinson, Kans. Cream separator. 2,416,623; Feb. 25.
- Hampton, William J.: *See*—Hueber, Carl J., and Hampton.
- Hamre, Glenn L., Billings, Mont. Fishing rod holder and fly tying vise. 2,416,828; Mar. 4.
- Hamre, Glenn L., Billings, Mont. Fishing rod holder. 2,430,112; Nov. 4.
- Hanchett Manufacturing Company, assignee: *See*—Hanchett, Ralph V.
- Hanchett, Ralph V., assignor to Hanchett Manufacturing Company, Big Rapids, Mich. Insulation sealing cover for electric coils. 2,432,194; Dec. 9.
- Hancock, David, Jr.: *See*—Hanert, John M., and Hancock.
- Hancock, Jack M., Memphis, Tenn. Holder for rolls of toilet paper. 2,416,580; Feb. 25.
- Hancock, William O., Knoxville, Iowa. Cultivator attachment. 2,433,215; Dec. 23.
- Hand, David B.: *See*—Sharp, Paul F., Hand, and Guthrie.
- Hand, Leslie T., Brooklyn, assignor to Morsegraph Inc., New York, N. Y. Moistener. 2,427,963; Sept. 23.
- Hand, Walter, Memphis, Tenn. Folding bed. 2,423,699; July 8.
- Handel, Stanley T., Essex, Conn. Rack mounting means. 2,423,073; Sept. 30.
- Handforth, Stanley L., Wilmington, Del., and C. R. Johnson, Glenn Mills, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Machine for testing and assorting resistance elements. 2,417,488; Mar. 18.
- Handler, Charles, assignee: *See*—Greenbaum, Martin.
- Handler, Henry, Aberdeen, Md. Bogie coupler. 2,424,980; Aug. 5.
- Handley, John: *See*—Grace, Bertram B., Handley, and Gilliver.
- Handley, John, assignor to Standard Telephones and Cables, Limited, London, W. C. 2, England. Electrostatic potential measuring instrument. 2,423,100; July 1.
- Handley, John, London, England, assignor to The Union Totalisator Company, Limited, Glasgow, Scotland. Registering and displaying apparatus. 2,430,113; Nov. 4.
- Handley, John, London, England, assignor to The Union Totalisator Company Limited, Glasgow, Scotland. Electromagnetic stepping mechanism for numeral wheels. 2,433,608; Dec. 30.
- Handschin, Eugen: *See*—Keller, Robert, and Handschin.
- Handy, Alden G., Boston, Mass. Aerial viewer with obstacle bypassing optical system comprising lens and mirror means. 2,426,207; Aug. 26.
- Handy, James O., Orlando, Fla., assignor to Duzzel Corporation, Dover, Del. Wax emulsions. 2,424,952; July 29.
- Hanert, John M., Wilmette, assignor to Hammond Instrument Company, Chicago, Ill. Electrical musical instrument. 2,429,226; Oct. 21.
- Hanert, John M., Wilmette, and D. Hancock, Jr., assignors to Hammond Instrument Company, Chicago, Ill. Electrical musical instrument. 2,432,152; Dec. 9.
- Hanes Hosiery Mills Co., assignee: *See*—Miller, Lawrence E.
- Haney, Clifford I., Greenwich, Conn., and M. E. Martin, Cumberland, Md., assignors to Celanese Corporation of America. Production of cellulose esters. 2,414,869; Jan. 28.
- Haney, Clifford I., Greenwich, Conn., and M. E. Martin and A. J. Rosenthal, Cumberland, Md., assignors to Celanese Corporation of America. Process for preparation of cellulose esters. 2,427,403; Sept. 16.
- Haney, Clifford I., Greenwich, Conn., and M. E. Martin, Cumberland, Md., assignors to Celanese Corporation of America. Ripening cellulose esters. 2,432,153; Dec. 9.
- Haney, Clifford I., Greenwich, Conn., and J. G. Mitchell, Cumberland, Md., assignors to Celanese Corporation of America. Apparatus for the treatment of solid materials with liquids. 2,433,552; Dec. 30.
- Haney, Frederick H.: *See*—Alquist, Francis N., Groom, and Haney.
- Haney, Lawrence A., St. Paul, Minn. Post handling jack. 2,424,929; July 29.
- Hanford, Ralph B., Yonkers, N. Y. Drill grinder. 2,429,057; Oct. 14.
- Hanford, William E., and J. Harmon, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical process and compound therefrom. 2,418,832; Apr. 15.
- Haniquet, George, Glendale, Calif. Hydro-vapor air conditioner. 2,421,557; June 3.
- Hanke, Joseph, Chicago, Ill. Fishing pole holder. 2,427,600; Sept. 16.
- Hanks, Maxey A., assignor, by mesne assignments, to Mole-Richardson Co., Los Angeles, Calif. Arc lamp regulating circuit. 2,430,929; Nov. 18.
- Hanle, Benjamin W., Elizabeth, N. J., assignor to Eagle Pencil Company. Fountain pen. 2,422,351; June 17.
- Hanle, Benjamin W., Elizabeth, N. J., assignor to Eagle Pencil Company. Writing pen. 2,432,012; Dec. 2.
- Hanley, Frank H., Butler, N. J., assignor to American Telephone and Telegraph Company. Selective signaling system. 2,418,406; Apr. 1.
- Hanley, Frank H., Butler, N. J., assignor to American Telephone and Telegraph Company. Signaling system. 2,425,801; Aug. 19.
- Hanley, Stanley M., assignee, et al.: *See*—Bixby, William H.
- Hanlon, Oris G., Massillon, Ohio. Marble making machine. 2,422,413; June 17.
- Hanlon-Waters, Division of General Finance Corporation, assignee: *See*—Dillon, Stephen V.
- Hann, Ellsworth S., Cleveland Heights, Ohio. Instrument for indicating degrees of cooking. 2,430,290; Nov. 4.
- Hanna, Clinton R., Pittsburgh, Pa., and E. R. Wolfert, Springfield, Mass., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Position regulator. 2,419,210; Apr. 22.
- Hanna, Clinton R., Pittsburgh, and L. B. Lynn, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Gyroscope controlled antenna stabilizer. 2,425,737; Aug. 19.
- Hanna Engineering Works, assignee: *See*—Hallerstrom, Harold C.
- Hanna, Raymond P., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Insulating runner member for trolley section insulators. 2,416,174; Feb. 18.
- Hanna, Raymond P., Pittsburgh, and N. H. Willby, Irwin, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Trolley conductor section insulator with magnetic blowout. 2,414,200; Jan. 14.



- Hanna, Raymond P., and N. J. Rosen, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Manual control system for switches for trolley vehicles. 2,432,882; Dec. 16.
- Hanna, Waldo E., Mount Cory, Ohio. Grading and cutting machine for preparing seed potatoes for planting. 2,420,776; May 20.
- Hanner, George E., Mansfield, Ohio, assignor to Dominion Electrical Manufacturing, Inc. Adjustable handle for thermostats. 2,414,040; Jan. 7.
- Hanner, George E., Mansfield, Ohio, assignor to Dominion Electrical Manufacturing, Inc. Push button switching apparatus. 2,417,161; Mar. 11.
- Hannifin Corporation, assignee: *See*—  
Peterson, Victor W., and Maha.
- Hannon, John W. G.: *See*—  
Koehler, Frederick W., and Hannan.
- Hanrahan, Emery M., Kenosha, and W. A. Mertins, Racine, Wis. Polishing machine for tableware. 2,425,469; Aug. 12.
- Hans, Edmund E., Detroit, Mich. Heater. 2,422,831; June 24.
- Hansburg, George B., Brooklyn, N. Y. Baby walker. 2,427,964; Sept. 23.
- Hansburg, George B., Brooklyn, N. Y. Baby stroller. 2,428,935; Oct. 14.
- Hansell, Clarence W.: *See*—  
Finch, James L., and Hansell.
- Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Ultra high frequency amplifying system. 2,419,135; Apr. 15.
- Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Direction finding. 2,419,994; May 6.
- Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. High-frequency oscillator of the secondary electron-emission type. 2,420,744; May 20.
- Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Direction finding system. 2,422,096; June 10.
- Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Pulse receiving system. 2,424,274; July 22.
- Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Magnetron. 2,424,886; July 29.
- Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Magnetron and circuit. 2,427,781; Sept. 23.
- Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Mercury rectifier. 2,431,247; Nov. 18.
- Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Current magnitude-ratio responsive amplifier. 2,431,396; Nov. 25.
- Hansell, Clarence W., Rocky Point, N. Y., assignor to Radio Corporation of America. Antenna. 2,423,648; July 8.
- Hansell, Clarence W., Rocky Point, N. Y., assignor to Radio Corporation of America. Pulse communication system. 2,425,314; Aug. 12.
- Hansell, Clarence W., Rocky Point, N. Y., assignor to Radio Corporation of America. Impedance matching means for mechanical waves. 2,430,013; Nov. 4.
- Hansen, Albert, Jr., Nahant, R. G. Jewell, Swampscott, Mass., and F. V. Johnson, Scotia, and R. W. Porter, Schenectady, N. Y., assignors to General Electric Company. Automatic pilot. 2,416,097; Feb. 18.
- Hansen, Donald W., assignor to A. E. Staley Manufacturing Company, Decatur, Ill. Starch modification process. 2,432,195; Dec. 9.
- Hansen, Fred E., Lakewood, Ohio. Hose coupling. 2,433,119; Dec. 23.
- Hansen, Hans H., and C. E. Smith, assignors to The Taylor-Winfield Corporation, Warren, Ohio. Welding apparatus. 2,423,067; June 24.
- Hansen, Hans L. C., Detroit, Mich., assignor to Chicago Rawhide Manufacturing Company, Chicago, Ill. Agitator and dispenser for lubricating compounds. 2,423,934; July 15.
- Hansen, Harold, and L. Seefeldt, assignors to Aluminum Goods Manufacturing Company, Manitowoc, Wis. Pressure control valve. 2,422,237; June 17.
- Hansen, Hillman A., Long Beach, Calif. Submersible exploration barge. 2,430,014; Nov. 4.
- Hansen, John A., and B. D. Loughlin, Bayside, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Gain-control arrangement. 2,429,513; Oct. 21.
- Hansen, John N.: *See*—  
Britton, Edgar C., and Hansen.
- Hansen, John N., and F. B. Smith, assignors to The Dow Chemical Company, Midland, Mich. Alkylamine salts of dinitrophenols. 2,416,309; Feb. 25.
- Hansen, John N., Albert Lea, Minn., and F. B. Smith, Midland, assignors to The Dow Chemical Company, Midland, Mich. N-(2-hydroxy-ethyl)-ethylenediamine disalt of 2,6-dinitro-4-cyclohexyl-phenol. 2,422,544; June 17.
- Hansen, Juliane G., Santa Cruz, Calif. Grommet spindle. 2,415,209; Feb. 4.
- Hansen, Kenneth H., White Plains, N. Y., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electric switch. 2,422,097; June 10.
- Hansen, Klaus L., Milwaukee, Wis. Rectifier and transformer unit. 2,415,007; Jan. 28.
- Hansen, Klaus L., Milwaukee, Wis. Commutated transformer. 2,420,950; May 20.
- Hansen, Lloyd D., Fanwood, A. S. Hegeman, Jr., Glen Ridge, and H. N. Snook, Maywood, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Electrical testing apparatus. 2,424,275; July 22.
- Hansen, Louis E., Toronto, Ontario, Canada. Figure toy. 2,425,429; Aug. 12.
- Hansen, William W.: *See*—  
Johnson, Montgomery H., Ratliff, and Hansen.  
Varian, Russell H., and Hansen.
- Hansen, William W., Garden City, N. Y., assignor to Sperry Gyroscope Company, Inc. Secret communication. 2,418,119; Apr. 1.
- Hansen, William W., Garden City, N. Y., assignor to Sperry Gyroscope Company, Inc. High-frequency resonator-tube. 2,420,314; May 13.
- Hansen, William W., Garden City, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Tunable high-frequency electron tube structure. 2,425,738; Aug. 19.
- Hansen, William W., Garden City, N. Y., assignor to The Board of Trustees of the The Leland Stanford Junior University, Stanford University, Calif. Electromagnetic wave guide antenna. 2,432,990; Dec. 23.
- Hansen, William W., and E. L. Ginzton, Garden City, N. Y., assignors, by mesne assignments, to Board of Trustees of the Leland Stanford Junior University, Stanford University, Calif. Automatic frequency control system. 2,414,100; Jan. 14.
- Hansen, William W., Stanford University, and R. H. Varian, Palo Alto, assignors to Board of Trustees of the Leland Stanford Junior University, Stanford University, Calif. Radio measurement of distances and velocities. 2,415,094; Feb. 4.
- Hansen, William W., Garden City, and M. Relson, Kew Gardens, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. High-frequency phase measuring apparatus. 2,416,310; Feb. 25.
- Hansford, Rowland C.: *See*—  
Glassbrook, Clarence L., and Hansford.  
Myers, Claude G., Hansford, and Sachanen.
- Hansford, Rowland C., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Interpolymerization of thiophene with vinyl esters of organic fatty acids. 2,424,691; July 29.
- Hansley, Virgil L., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Stabilization of cyanhydrins. 2,416,624; Feb. 25.
- Hansley, Virgil L., Niagara Falls, and P. L. Magill, Ransomville, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification of vinyl acetate by distillation and scrubbing of the distillate. 2,431,554; Nov. 25.
- Hanson, Alden W., assignor to The Dow Chemical Company, Midland, Mich. Apparatus for making fine fibers. 2,417,751; Mar. 18.
- Hanson, Arthur T., Los Angeles, Calif. Hip boot hanger. 2,428,074; Sept. 30.
- Hanson, Dagfrid, Fairfield, Conn., assignor of two-thirds to J. N. Ledbetter, Jr., New York, N. Y. Rotary head oil burner. 2,417,929; Mar. 25.
- Hanson, Gerald N.: *See*—  
Frische, Carl A., and Hanson.  
Kellogg, Spencer, 2nd, Hanson, and Kenyon.
- Hanson, Herbert E.: *See*—  
Cohen, Jacob B., and Hanson.
- Hanson, Roy E., Wauwatosa, assignor to Milprint, Inc., Milwaukee, Wis. Protected food package having coating transparent and pictorial labels. 2,433,663; Dec. 30.
- Hanson, Theodore, Minneapolis, Minn. Fish stringer. 2,424,658; July 29.
- Hanson-Van Winkle-Munning Company, assignee: *See*—  
Hogaboom, George B.
- Hanson, Veb, Troy, N. Y. Transmission mechanism. 2,416,311; Feb. 25.
- Hanson, Veb, Fairfield, Conn., assignor of two-thirds to J. N. Ledbetter, Jr., New York, N. Y. Regulating means for washing machine agitators. 2,422,545; June 17.
- Hanson, Victor F., Pasco, Wash., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Measurement of leakage resistance in electrolytic cell systems. 2,432,013; Dec. 2.
- Hanson, Walter V., assignor of one-half to W. L. Walters, Los Angeles, Calif. Vehicle cooler. 2,432,755; Dec. 16.
- Hansson, Bror, Stockholm, and T. Ljungberg, Alvsjo, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Leading-through insulator. 2,422,546; June 17.
- Hantjopoulos, George, New York, N. Y. Fuel pump. 2,433,664; Dec. 30.
- Hantz, Joseph J., Wausau, Wis. Electrical system for cattle stalls. 2,428,875; Oct. 14.
- Hanville, Scott H. Jr.: *See*—  
Formbals, William H., and Hanville.



- Hapman, Henry W., Detroit, Mich. Bucket conveyer system. 2,426,304; Aug. 26.
- Hapman, Henry W., Detroit, Mich. Flight conveyer. 2,429,549; Oct. 21.
- Hapman, Henry W., Detroit, Mich. Sludge tank having a U-shaped conduit having arm portions inclined downward to the lower part of said tank and a conduit opening into said tank connecting said portions. 2,432,756; Dec. 16.
- Hapman, Henry W., Detroit, Mich. Trolley conveyor of the bucket type. 2,433,274; Dec. 23.
- Happ, Edwin L., Brevard, N. C., assignor to Ecusta Paper Corporation. Electrical system for doctor blade control in paper making machines. 2,417,796; Mar. 18.
- Happe, Reynold, Pittstown, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Portable electric tool with twist lock handle. 2,430,422; Nov. 4.
- Happel, John: *See*—  
Peavy, Claude C., and Happel.
- Haranis, John, assignee: *See*—  
Bartho, John C.
- Harasty, Viktor, Whitestone, N. Y. Small boat construction. 2,418,636; Apr. 8.
- Harasty, Viktor, Whitestone, N. Y. Starting and manual propelling system for life boats. 2,418,637; Apr. 8.
- Harben's (Viscose Silk Manufacturers) Limited, assignee: *See*—  
Goodwin, Leslie C., and Tinsley.
- Harbers, Henry C., San Gabriel, assignor to C. B. Equipment Co., Los Angeles, Calif. Motor vehicle transmission and differential wheel drive control therefor. 2,416,478; Feb. 25.
- Harbison, George C., Erie, Pa., assignor to General Electric Company. Slidable shelf with combined guiding and stop means. 2,428,216; Sept. 30.
- Harbison-Walker Refractories Company, assignee: *See*—  
Young, Clair I.
- Harcourt, George A.: *See*—  
Sproule, William K., and Harcourt.  
Sproule, William K., Harcourt, and Rose.
- Harcum, William M., Mineola, and P. Halpert, Kew Gardens, N. Y., assignors to Sperry Gyroscope Company, Inc. Automatic pilot for dirigible craft. 2,417,821; Mar. 25.
- Hard at Segerstad, Carl G., assignor to Sandvikens Jernverks Aktiebolag, Sandviken, Sweden. Pressure actuated switch. 2,421,149; May 27.
- Hardell, Lawrence W., assignor of ten per cent to F. W. Genrich, Jr., and twenty-eight and one-third per cent to E. J. Randart, Jr., Wausau, Wis. Preflight training plane. 2,428,706; Oct. 7.
- Harder, Edwin L., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control network. 2,426,018; Aug. 19.
- Harder, Edwin L., and H. M. Rustebakke, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system. 2,428,566; Oct. 7.
- Hardie, Harry, assignor to Nobelt, Inc., Baltimore, Md. Garment band. 2,433,046; Dec. 23.
- Hardie, John C., Brockton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Sole treating apparatus. 2,421,419; June 3.
- Hardig, Eugene J., assignor to The Studebaker Corporation, South Bend, Ind. Track for track-laying vehicles. 2,420,133; May 6.
- Harding, Clarke T., Hillside, N. J., assignor to Standard Oil Development Company. Producing aviation gasoline. 2,429,718; Oct. 28.
- Harding, John W., Sherridon, Manitoba, Canada. Shaft mucking machine. 2,421,379; June 3.
- Harding, Lloyd E., Bradley Beach, N. J., assignor of one-fifth to E. J. Lada, Woodhaven, N. Y., and one-fifth to W. A. Zalesak, Union, N. J. Fastening device. 2,414,870; Jan. 28.
- Harding, Lloyd E., Bradley Beach, N. J., assignor of one-fifth to E. J. Lada, Woodhaven, N. Y., and one-fifth to W. A. Zalesak, Union, N. J. Animated figure. 2,427,210; Sept. 9.
- Harding, William G.: *See*—  
Nisbet, Robert H., and Harding.
- Harding, William R., Export, A. W. Kimball, Wilkinsburg, and R. W. Moore, Edgewood, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Torpedo propulsion control and motor. 2,414,523; Jan. 21.
- Harding, William R., Export, and R. W. Moore, Edgewood, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Series generator and motor drive control scheme. 2,416,175; Feb. 18.
- Hardinge Brothers, Inc., assignee: *See*—  
Anderson, Douglas G.  
Evans, Leigh R.
- Hardinge Company, Inc., assignee: *See*—  
Hardinge, Harlowe.
- Hardinge, Harlowe, assignor to Hardinge Company, Inc., York, Pa. Thickener. 2,418,973; Apr. 15.
- Hardman, Albert F., assignor to Wingfoot Corporation, Akron, Ohio. Hydroxy-cyanoalkyl naphthalenes. 2,421,837; June 10.
- Hardman, Bruce W., assignee: *See*—  
Kennedy, Samuel E.
- Hardman, Stuart F., Mendon, Utah. Stage lighting. 2,426,093; Aug. 19.
- Hardwick, Christopher L., Cleveland, Tenn. Spacing bracket for crated stoves. 2,420,425; May 13.
- Hardy, Gordon W., Cleveland Heights, assignor to The Marquette Metal Products Company, Cleveland, Ohio. Propeller blade. 2,423,700; July 8.
- Hardy, Gordon W., Cleveland Heights, assignor to The Marquette Metal Products Company, Cleveland, Ohio. Propeller blade. 2,428,970; Oct. 14.
- Hardy, Gordon W., Euclid, assignor to The Marquette Metal Products Company, Cleveland, Ohio. Pump. 2,423,701; July 8.
- Hardy, Murray H., Belle Harbor, Long Island, N. Y. Combination billfold and coin purse. 2,428,707; Oct. 7.
- Hardy, René, Lyon, France, assignor to International Standard Electric Corporation, New York, N. Y. Apparatus for remotely repeating angular indications. 2,419,550; Apr. 29.
- Hardy, René J., Lyon, France, assignor to International Standard Electric Corporation, New York, N. Y. Cathode-ray tube control circuit. 2,426,208; Aug. 26.
- Hardy, Vernal R., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for converting tow to top. 2,413,969; Jan. 7.
- Hardy, Wilbert E., McKees Rocks, assignor to The McKay Company, Pittsburgh, Pa. Apparatus for handling welding rods or the like. 2,416,690; Mar. 4.
- Hardy, William B.: *See*—  
Scalera, Mario, and Hardy.
- Hare, James E., Uniontown, Pa. Pole climbing harness. 2,428,075; Sept. 30.
- Haren, Urban C., and V. H. Hasselquist, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Expandable band-building drum. 2,416,523; Feb. 25.
- Hargen, Daniel M., Manchester, Conn. Food basting utensil. 2,432,073; Dec. 2.
- Hargett, Albert E., Bowling Green, Ky., assignor to Ford Meter Box Company, Wabash, Ind. Flat meter mounting. 2,430,676; Nov. 11.
- Hargett, Huston L.: *See*—  
Hilton, Harold L. and H. C., and Hargett.
- Hargreaves, Thomas F. S.: *See*—  
Terry, Victor J., and Hargreaves.
- Hargreaves, William, Bergenfield, assignor to Bendix Aviation Corporation, Teterboro, N. J. Snap-ring secured, divided motor casing. 2,417,195; Mar. 11.
- Harkeem, James A., Manchester, N. H., assignor to United Shoe Machinery Corporation, Flemington, N. J. Throat for fastening inserting machines. 2,416,312; Feb. 25.
- Harkins, Robert H., Mount Vernon, N. Y. Diffusing repellents. 2,418,876; Apr. 15.
- Harkness, Joseph R., and A. W. Robinson, Jr., Schenectady, N. Y., assignors to General Electric Company. Ignition system unit. 2,414,692; Jan. 21.
- Harlamoff, Anatol J., South Gate, Calif., assignor to A. O. Smith Corporation, Milwaukee, Wis. Centrifugal pump. 2,418,258; Apr. 1.
- Harlan, George W., Cooper County, Mo. Hose supporter. 2,415,008; Jan. 28.
- Harless, Charles A., Oak Park, assignor to The Goss Printing Press Company, Chicago, Ill. Printing press. 2,425,184; Aug. 5.
- Harless, Charles A., Oak Park, assignor to The Goss Printing Press Company, Chicago, Ill. Inking mechanism for printing presses. 2,425,529; Aug. 12.
- Harless, Charles A., Oak Park, assignor to The Goss Printing Press Company, Chicago, Ill. Stereotype plate casting. 2,430,334; Nov. 4.
- Harlow, Winton G., Upper Darby, Pa., assignor to General Electric Company. Electric air circuit breaker. 2,417,683; Mar. 18.
- Harlow, Winton G., Upper Darby, Pa., assignor to General Electric Company. Latching mechanism for electric switches. 2,418,470; Apr. 8.
- Harman, Emil I.: *See*—  
Jensen, Dan H. L., and Harman.
- Harman, Frank B., Grand Rapids, Mich. Posture chair. 2,420,745; May 20.
- Harman, John H., Stirling, N. J. Timed actuator for aerial bombs. 2,414,464; Jan. 21.
- Harman, Marion W., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Mercapto nitriles. 2,413,917; Jan. 7.
- Harmanson, Roxie G., New Orleans, La. Hospital bed construction. 2,418,259; Apr. 1.
- Harmon, Cline H., and D. L. Fort, assignors to Waterloo Foundry Company, Waterloo, Iowa. Closure for exhaust pipes. 2,421,838; June 10.
- Harmon Color Works, Inc., assignee: *See*—  
Vesce, Vincent C.
- Harmon, Herbert H.: *See*—  
Hutchison, Miller R., Jr., and Harmon.
- Harmon, Herbert H., Rochester, N. Y. Internal-combustion engine. 2,422,238; June 17.
- Harmon, Jesse: *See*—  
Hanford, William E., and Harmon.  
Roland, John R., and Harmon.
- Harmon, Jesse, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of products having recurring aryethylene units with termini from a saturated halogenated alkane. 2,423,497; July 8.
- Harmon, Kenneth A., Longmeadow, assignor to Wico Electric Company, West Springfield, Mass. Distributor. 2,433,757; Dec. 30.



- Harmon, Luther R., Chicago, Ill., assignor of one-half to F. J. Burt and one-half to W. D. Lloyd. Time switch. 2,426,350; Aug. 26.
- Harmon, Nathaniel O., Los Angeles, Calif. Oil cracking unit. 2,421,880; June 10.
- Harmon, Ralph N.: *See*—  
Gregory, Luther W., and Harmon.
- Harmon, Robert R., Charlottesville, Va., assignor to Peabody Engineering Corporation, New York, N. Y. Gas scrubber. 2,420,242; May 6.
- Harnden, Charles W., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Bactericide and algacide. 2,419,021; Apr. 15.
- Harnischfeger Corporation, assignee: *See*—  
Burdick, Will S., and Schneider.  
Hettelsater, Henry C.
- Harnly, Nellie F., assignee: *See*—  
Matheny, Willard R.
- Harold, Charles, Butler, N. J., assignor, by mesne assignments, of eighty-five per cent to J. B. and F. T. Tigrett, a copartnership doing business as Future Unlimited, Jackson, Tenn., and fifteen per cent to D. T. Hatfield, Arlington, Va. Power unit for amusement devices and the like. Re. 22,900; July 15.
- Harp, Charles B., Los Angeles, Calif. Airplane mounted fire extinguishing apparatus. 2,426,771; Sept. 2.
- Harp Corporation, The, assignee: *See*—  
Burns, Frank D.
- Harper, Carolyn L., assignee: *See*—  
Harper, Philip S.
- Harper, Carolyn L., Trust, et al.: *See*—  
Harper, Philip S.
- Harper, David A.: *See*—  
Buist, Jack M., Harper, Smith, and Welding.  
Cook, James G., Harper, Reynolds, and Smith.  
Haggood, Bernard J., Harper, and Reynolds.
- Harper, Elmer E., deceased, Monrovia, Calif.; E. P. Harper, executrix. Automatic control for gravimetric feeders by the weight of the material in the supply container. 2,416,994; Mar. 4.
- Harper, Elmer E., deceased, Monrovia, Calif.; E. B. Harper, executrix. Control means for automatic regulating mechanism. 2,422,352; June 17.
- Harper, Esther B., executrix: *See*—  
Harper, Elmer E.
- Harper, Kennard W.: *See*—  
Peck, William F., and Harper.
- Harper, Kennard W., East Aurora, N. Y., assignor, by mesne assignments, to American Optical Company, Southbridge, Mass. Optical testing instrument. 2,414,871; Jan. 28.
- Harper, Kennard W., East Aurora, N. Y., assignor, by mesne assignments, to American Optical Company, Southbridge, Mass. Method and apparatus for checking the accuracy of graduated circles of optical instruments. 2,433,452; Dec. 30.
- Harper, Kennard W., East Aurora, N. Y., assignor, by mesne assignments, to American Optical Company, Southbridge, Mass. Method of and apparatus for positioning reticules in optical instruments. 2,427,599; Sept. 16.
- Harper, Philip S., assignor of one-fourth to P. S. Harper, one-fourth to C. L. Harper, Chicago, Ill., one-fourth to Harris Trust and Savings Bank, an Illinois banking corporation, as trustee of the Philip S. Harper Trust, and one-fourth to said Harris Trust and Savings Bank, as trustee of the Carolyn L. Harper Trust. Air shutter for gas burners. 2,419,995; May 6.
- Harper, Philip S., and G. F. Turner, assignors to Harper-Wyman Company, Chicago, Ill. Gas burner. Re. 22,877; May 13.
- Harper, Philip S., Trust, et al.: *See*—  
Harper, Philip S.
- Harper, Thomas C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Ice removing device for airplanes. 2,417,930; Mar. 25.
- Harper-Wyman Company, assignee: *See*—  
Harper, Philip S., and Turner.
- Harr, Herman H., Newark, N. J. Mixing and dispensing faucet. 2,416,581; Feb. 25.
- Harr, Herman H., Newark, N. J. Mixing and dispensing faucet. 2,416,582; Feb. 25.
- Harr, Russel E., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Making enamel coated articles. 2,418,932; Apr. 15.
- Harred, George H., East Greenwich, R. I., assignor to Boston Wire Stitcher Company, Portland Maine. Apparatus for stacking and transporting objects. 2,424,093; July 15.
- Harrel, Chastain G., and R. O. Brown, Minneapolis, Minn., assignors to Pillsbury Mills, Inc. Coloring of cereal particles. 2,428,665; Oct. 7.
- Harrer, Herbert W., New Washington, Ohio. Compressor. 2,420,426; May 13.
- Harrer, Paul H., La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Baling machine. 2,424,821; July 29.
- Harries, John H. O., Clapham Park, London, S. W. 4, Enland. Electron discharge tubes for ultra high frequencies. 2,415,349; Feb. 4.
- Harriman, Benjamin R., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Imidazolone color formers. 2,421,693; June 3.
- Harriman, Louis A.: *See*—  
Hopkins, Ervin W., Josh, and Harriman.
- Harrington, Bertie S., assignor to Armour and Company, Chicago, Ill. Method and apparatus for collection and treatment of blood. 2,422,194; June 17.
- Harrington & Richardson Arms Company, assignee: *See*—  
Baldwin, Joseph W.
- Harrington, Robert C., Jr., U. S. Navy. Dive angle indicator. 2,429,620; Oct. 28.
- Harrington, Ronald J., Brooklyn, N. Y. Cash register mechanism for issuing sales receipts. 2,432,014; Dec. 2.
- Harris, Carl C., and L. T. Bassett, Orange, assignors to The Stencil Co., Orange, Mass. Article clamping clip. 2,414,810; Jan. 28.
- Harris, Charles R., Lockport, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of organic nitriles. 2,427,601; Sept. 16.
- Harris, Charles R., Lockport, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of vinyl cyanide. 2,429,459; Oct. 21.
- Harris, Charles R., Lockport, and W. C. Sharples, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of vinyl cyanide. 2,419,186; Apr. 15.
- Harris, Charles R., Lockport, and W. W. De Atley, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Co., Wilmington, Del. Conditioning a catalyst for the production of vinyl cyanide. 2,423,186; July 1.
- Harris, Charles R., Lockport, and W. C. Sharples, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of vinyl cyanide. 2,429,460; Oct. 21.
- Harris, Cuthbert N.: *See*—  
Kahn, Alfred, and Harris.
- Harris, Frank C., Bay Village, assignor to The American MonoRail Company, Cleveland, Ohio. Shuttle bridge crane. 2,414,301; Jan. 14.
- Harris, Frank C., Bay Village, assignor to The American MonoRail Company, Cleveland, Ohio. Shuttle crane. 2,420,595; May 13.
- Harris, Fred E., Nutley, A. S. Hegeman, Jr., Glen Ridge, and H. N. Snook, Maywood, N. J., assignors to Western Electric Company, Inc., New York, N. Y. Connector. 2,425,802; Aug. 19.
- Harris, Frederic R., New York, N. Y. Coupling apparatus for floating dry docks. 2,424,164; July 15.
- Harris, Frederic R., New York, N. Y., assignor to New Jersey Shipbuilding Corporation, Barber, N. J. Building ships. 2,426,094; Aug. 19.
- Harris, Frederic R., New York, N. Y. Floating drydock. 2,428,076; Sept. 30.
- Harris, George C., assignor to Hercules Powder Company, Wilmington, Del. Tall oil treatment. 2,419,211; Apr. 22.
- Harris, Herbert, Jr.: *See*—  
Campbell, David J., Harris, and Hauser.  
Knowles, Richard C., and Harris.  
Knowles, Richard C., White, and Harris.
- Harris, Herbert, Jr., Cedarhurst, N. Y., assignor to Sperry Gyroscope Company, Inc. Prediction apparatus. 2,425,317; Aug. 12.
- Harris, Jack M.: *See*—  
Bigelow, Julian H., Harris, and Schweizer.
- Harris, James O., Anniston, Ala., assignor to Monsanto Chemical Company, St. Louis, Mo. Tin hydrocarbon compounds and process for making same. 2,431,038; Nov. 18.
- Harris, John R., New York, N. Y. Stand and making the same. 2,427,139; Sept. 9.
- Harris, La Mar W., and L. W. Colton, U. S. Navy. Laminated denture. 2,418,833; Apr. 15.
- Harris, Leonard B., Southold, N. Y. Floating fish factory. 2,413,918; Jan. 7.
- Harris, Leonard B., Southold, and V. R. Pascale, New York, N. Y. Garment hanger. 2,416,750; Mar. 4.
- Harris, Leonard B., Southold, and V. R. Pascale, New York, N. Y. Finger grip expandable garment hanger. 2,417,684; Mar. 18.
- Harris, Leonard B., Southold, and V. R. Pascale, New York, N. Y. Garment hanger. 2,419,621; Apr. 29.
- Harris, Lewis A., assignee: *See*—  
Smith, Earl C.
- Harris, Milton, Bethesda, Md., and W. I. Patterson, Chagrin Falls, Ohio, assignors to Textile Foundation, Washington, D. C. Treating animal fibers and products thereof. 2,418,071; Mar. 25.
- Harris, Norman C.: *See*—  
Whann, Jesse P., and Harris.
- Harris Products Company, assignee: *See*—  
Storch, Harold A.
- Harris, Richard G., Knoxville, Tenn. Field tent. 2,425,279; Aug. 5.
- Harris-Seybold Company, assignee: *See*—  
Harrold, Charles W.  
Kaddeland, Christen R.  
Royer, Arthur G.
- Harris, Sidney E.: *See*—  
Christiansen, Walter G., and Harris.
- Harris, Stanton A., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Synthesis of vitamin B<sub>6</sub>. 2,422,195; June 17.



- Harris, Stanton A., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Vitamin B<sub>6</sub> intermediates and preparing the same. 2,422,616; June 17.
- Harris, Stanton A., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Vitamin B<sub>6</sub> intermediates. 2,422,617; June 17.
- Harris, Stanton A., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Vitamin B<sub>6</sub> intermediates. 2,422,618; June 17.
- Harris, Stanton A., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Vitamin B<sub>6</sub> intermediates. 2,422,619; June 17.
- Harris, Stanton A., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Vitamin B<sub>6</sub> intermediates. 2,422,620; June 17.
- Harris, Stanton A., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Vitamin B<sub>6</sub> intermediates. 2,422,621; June 17.
- Harris, Stanton A., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Synthesis of vitamin B<sub>6</sub>. 2,422,622; June 17.
- Harris, Stanton A., Westfield, assignor to Merck & Co. Inc., Rahway, N. J. Making esters of 7,8-di-amino nonoic acid. 2,424,311; July 22.
- Harris, Thomas G.: *See—*  
Neville, Harvey A., and Harris.
- Harris Trust and Savings Bank, assignee: *See—*  
Katcher, Morris, and Greene.
- Harris Trust and Savings Bank, trustee, assignee: *See—*  
Harper, Philip S.
- Harris, Walter R., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Ward Leonard control system. 2,426,019; Aug. 19.
- Harris, Walter R., Wilkinsburg, and J. Z. Linsenmeyer, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Speed regulating system. 2,414,524; Jan. 21.
- Harris, Walter R., Wilkinsburg, and R. R. Baker, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Drive system. 2,428,567; Oct. 7.
- Harris, William J., Newport, England. Electric discharge lamp and controlling means therefor. 2,416,751; Mar. 4.
- Harrison, Arthur M.: *See—*  
Pollard, Ernest I., and Harrison.
- Harrison, Arthur E., Oceanside, and S. F. Varian, West Hempstead, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. High-frequency tube structure. 2,414,785; Jan. 21.
- Harrison, Bertram M., Newton Highlands, assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass. Electroacoustic transducer. 2,416,314; Feb. 25.
- Harrison, Bertram M., Wellesley Hills, assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass. Signaling system. 2,424,981; Aug. 5.
- Harrison, Bertram M., Newton Highlands, assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass. Method and apparatus for echo ranging. 2,433,361; Dec. 30.
- Harrison, Edgar, Miami, Fla., and A. P. McCabe, Washington, D. C. Electrical connector. 2,428,022; Sept. 30.
- Harrison, Harold C.: *See—*  
Amberg, Charles R., and Harrison.
- Harrison, Robert R., Pacific Palisades, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Tube clamp. 2,425,153; Aug. 5.
- Harrison, Thomas, Colindale, London, and J. L. Brooks, Walford, Wimborne, England. Bookbinding machine. 2,420,705; May 20.
- Harrison, William H., Reeds Mill, Ohio. Barge and barge coupling. 2,431,039; Nov. 18.
- Harrison, William H., Hollywood, Calif. Adjustable adapter or coupling. 2,431,172; Nov. 18.
- Harrison, William H., Champaign, Ill. Harvester reel. 2,431,397; Nov. 25.
- Harriss, Lloyd J., Kenilworth, Ill. Pie and similar food articles. 2,430,566; Nov. 11.
- Harrold, Charles W., University Heights, Ohio, assignor to Harris-Seybold. Sheet detector. 2,433,120; Dec. 23.
- Harropp, Herbert B., Middlebush, N. J. Traction device for wheeled vehicles. 2,426,683; Sept. 2.
- Harry, Robert V., assignee, et al.: *See—*  
Montague, Harry E.
- Harsh, Harold C.: *See—*  
Duerr, Herman H., Morrell, and Harsh.
- Harshaw Chemical Company, The, assignee: *See—*  
Du Rose, Arthur H.
- Kremers, Harry C., and Price, Long, Kenneth E., and Cromer.
- Harshberger, Charles W., Portland, Ore. Lumber handling device. 2,424,692; July 29.
- Hart-Carter Company, assignee: *See—*  
Holtzman, William A.
- Ross, Sydney E.
- Hart, Coleridge W., Peekskill, N. Y. Molded block of activated carbon in a porous casing of fireproofed carbon. 2,423,702; July 8.
- Hart, Edward L., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Automobile air-conditioning apparatus. 2,430,335; Nov. 4.
- Hart, George T., Jr., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Photoelectric line-following apparatus. 2,419,641; Apr. 29.
- Hart, George T., Jr., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Control mechanism. 2,423,935; July 15.
- Hart, George T., Jr., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Attaching sole to welted shoes. 2,426,267; Aug. 26.
- Hart, George T., Jr., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Sole attaching using high-frequency field. 2,426,268; Aug. 26.
- Hart, Harold M., Cambridge, assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass. Method and apparatus for radio ranging. 2,426,501; Aug. 26.
- Hart, Harry J., Baldwin Township, Allegheny County, Pa. Noise eliminator for telephone transmitters. 2,425,061; Aug. 5.
- Hart, Harry L.: *See—*  
Bugg, Kenly C., and Hart.
- Hart, John A. H., and E. W. Lee, assignors to Ilford Limited, Ilford, England. Purification of gelatin. 2,423,773; July 8.
- Hart, Kenneth V., Cleveland, Ohio. Welding apparatus. 2,417,075; Mar. 11.
- Hart, Kenneth V., Cleveland, Ohio. Welded joint. 2,425,470; Aug. 12.
- Hartbauer, August W. L., Chicago, Ill. Gasket and construction. 2,418,072; Mar. 25.
- Harter, Noah S., Waukegan, Ill., assignor to The American Steel and Wire Company of New Jersey. Hardware and screen cloth machine. 2,421,261; May 27.
- Harter, Spurgeon S., Chadwick, Ill. Blackboard cleaner. 2,414,872; Jan. 28.
- Hartford-Empire Company, assignee: *See—*  
Green, Thomas D.
- Ingle, Henry W.
- Hartford National Bank and Trust Company, assignee: *See—*  
Alma, Gerrit H. P., and Dammers.
- Bard, Elliott, and Kobilsky.
- Boldingh, Willem H.
- Bouwers, Albert.
- Clark, Robert G.
- Davis, Charles W. V.
- De Boer, Jan.
- De Graaf, Jacob E.
- Dikstaal, Simon A.
- Douma, Tjiske.
- Fisher, Sidney T.
- Gall, Bernardus Octavianus Maria and van Rossum.
- Haantjes, Johan.
- Labin, Edouard.
- Mulder, Johannes G. W.
- Pressel, Otto, and Diepstraten.
- Richards, Claude L.
- Schmidt, Gerrit.
- Spoor, Theodorus A.
- Storm, André Willem.
- Strutt, Maximilian J. O., and van der Ziel.
- Strutt, Maximilian J. O., van der Ziel, and Alma.
- Tellegen, Bernardus D. H.
- Van den Berg, Antonius C., and Kenyon.
- Van der Willigen, Paul C., Kreupeling, and de Jong.
- Van Geel, Willem C.
- Van Hofweegen, Johannes M., and Strutt.
- Van Slooten, Jacob, and van Weel.
- Van Suchtelen, Harold.
- Verbeek, Henri P. J.
- Vermeulen, Roelof.
- Waddington, Eric S.
- Ziegler, Marc.
- Hartley, Arnold B., and H. W. Holt. New York, N. Y. Record player. 2,416,583; Feb. 25.
- Hartley, Elvin C., Portland, Ore. Excavator. 2,424,822; July 29.
- Hartley, Emmett C.: *See—*  
Hull, Henry E., and Hartley.
- Hartley, Emmett C., assignor to The Parker Appliance Company, Cleveland, Ohio. Closure cap for tube fittings. 2,416,829; Mar. 4.
- Hartley, Emmett C., and H. L. Ivins, assignor to The Parker Appliance Company, Cleveland, Ohio. Machine for testing helical compression springs. 2,417,196; Mar. 11.
- Hartley, George C., Lndon, England, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Reading the indication of measuring instruments. 2,426,209; Aug. 26.
- Hartley, George C., and W. J. Reynolds, assignors to Standard Telephones and Cables Limited, London, England. Electric impulse receiving and timing arrangement. 2,428,023; Sept. 30.
- Hartley, George C., and W. J. Reynolds, London, W. C. 2, assignors to Standard Telephones and Cables Limited, London, England. Pendulum relay controlled start-stop telegraph transmitter. 2,433,362; Dec. 30.
- Hartley, Reuben K., Hamilton, Mo. Tractor-mounted hay rake and stacker. 2,424,165; July 15.
- Hartline, Ralph E.: *See—*  
Lubelsky, Benjamin L., and Hartline.
- Hartman, Herbert L., assignor to The General Industries Company, Elyria, Ohio. Turntable drive for phonographs. 2,421,910; June 10.
- Hartman, Leonard S., Murfreesboro, Tenn. Automatic radio compass demonstrator. 2,418,834; Apr. 15.



- Hartman, Max, Riehen, and H. von Meyenburg, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. Manufacture of para-aminobenzenesulfonylguanidine. 2,416,995; Mar. 4.
- Hartman, Paul L., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Oscillator. 2,414,085; Jan. 14.
- Hartman, Paul L., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,416,315; Feb. 25.
- Hartman, William C.: *See—*
- Hull, Harvard L., Hartman, and Goertz.
- Hartman, William W., Los Angeles, Calif. Band blade slicing machine. 2,424,659; July 29.
- Hartmann Company, assignee: *See—*
- Ritter, Alois A.
- Hartmann, Fred, St. Louis, Mo. Collapsible scaffold. 2,431,933; Dec. 2.
- Hartmann, Max, Riehen, H. von Meyenburg, Basel, and J. Druey, Riehen, Switzerland, assignors to Ciba Pharmaceutical Products, Incorporated, Summit, N. J. Making p-aminobenzenesulphonamidopyrimidines. 2,429,184; Oct. 14.
- Hartmann, Miner L., Beverly Hills, Calif. Bread slice halving device. 2,429,756; Oct. 28.
- Harton, Erskine E.: *See—*
- Ayers, George W., Barton, and Harton.
- Ayers, George W., Harton, and Henderson.
- Harton, Erskine E., Jr.: *See—*
- Ayers, George W., and Harton.
- Hartough, Howard D.: *See—*
- Reiff, Orland M., Hartough, and Andress.
- Hartough, Howard D., Pitman, and J. J. Sardella, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Acylation of thiophene. 2,432,991; Dec. 23.
- Hartridge, Frances A., Hartsdale, N. Y. Petticoat. 2,429,128; Oct. 14.
- Hartsheld, Ernest P., Wilmington, Del., and J. L. Richmond, Woodstown, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Fabric treating paste. 2,419,399; Apr. 22.
- Hartsheld, Frank E., assignor of one-fourth to C. M. Matney, and one-fourth to R. S. Raper, McKinney, Tex. Loading machine. 2,428,156; Sept. 30.
- Hartshorne, Frank W. K., Quincy, Fla., assignor to Floridn Company, Warren, Pa. Toxic compositions. 2,415,282; Feb. 4.
- Hartwell Aviation Supply Co., assignee: *See—*
- Andrews, Weldon R.
- Hartwick, Louis M.: *See—*
- Kinney, Selwyne P., and Hartwick.
- Hartwig, Edward C., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Constant current system. 2,431,248; Nov. 18.
- Hartwig, Walter J., assignor to D. J. Murray Manufacturing Co., Wausau, Wis. Pulsating screen. 2,432,238; Dec. 9.
- Harvel Research Corporation, assignee: *See—*
- Harvey, Mortimer T.
- Harvey, Douglass C., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic plate holder. 2,432,414; Dec. 9.
- Harvey, Elwood C., assignor to J. W. Harvey, Thorndale, Pa. Shoe tree. 2,417,109; Mar. 11.
- Harvey, George W., Glenburn, assignor to Solar Aircraft Company, San Diego, Calif. Flexible joint. 2,417,250; Mar. 11.
- Harvey, J. Willard, assignee: *See—*
- Harvey, Elwood C.
- Harvey, Jacquelin E., Jr., Washington, D. C., and R. H. White, Jr., and J. A. Vaughan, Atlanta, assignors of one-half to said Harvey and one-half to Southern Wood Preserving Company, East Point, Ga. Reformed hydrocarbon wood preserving impregnant. 2,419,212; Apr. 22.
- Harvey, Jacquelin E., Jr., Washington, D. C., and R. H. White, Jr., and J. A. Vaughan, Atlanta, Ga., assignors of one-half to J. E. Harvey, Jr., Washington, D. C., and one-half to Southern Wood Preserving Company, East Point, Ga. Reforming hydrocarbons. 2,433,363; Dec. 30.
- Harvey, Jacquelin E., Jr., Washington, D. C., and R. H. White, Jr., and J. A. Vaughan, Atlanta, Ga., assignors of one-half to J. E. Harvey, Jr., Washington, D. C., and one-half to Southern Wood Preserving Company, East Point, Ga. Production of valuable hydrocarbons. 2,433,365; Dec. 30.
- Harvey, James L., Fanwood, assignor to The Babcock & Wilcox Company, Rockleigh, N. J. Apparatus for maintaining a controlled recirculation of carrier medium through an air-swept pulverizer. 2,428,422; Oct. 7.
- Harvey, Kelsey L., Beaver, Pa. Ceramic composition. 2,426,395; Aug. 26.
- Harvey, Leo M., assignee: *See—*
- Greene, George B.
- Harvey, Leo M., Los Angeles, Calif. Washing machine having premixing means. 2,431,040; Nov. 18.
- Harvey, Merlin P.: *See—*
- Ladd, Elbert C., and Harvey.
- Harvey, Mortimer T., South Orange, N. J., assignor to Harvel Research Corporation. Oxygen treated organic products and producing them. 2,415,096; Feb. 4.
- Harvey, Mortimer T., South Orange, N. J., assignor to Harvel Research Corporation. Ethyl cellulose gels and preparing same. 2,418,583; Apr. 8.
- Harvey, Robert L., Princeton, N. J., assignor to Radio Corporation of America. Frequency stabilized oscillator. 2,427,498; Sept. 16.
- Harvey-Whipple, Incorporated, assignee: *See—*
- Carter, George I.
- Harvill, Edward, Yonkers, N. Y., assignor to Boyce Thompson Institute for Plant Research, Inc. Insecticide. 2,425,530; Aug. 12.
- Harwell, Alfred W., Birmingham, Ala. Scaffold unit. 2,433,216; Dec. 23.
- Harwick, Henry K.: *See—*
- Horton, Reuben H., Eksergian, and Harwick.
- Harwood, James, Western Springs, and E. F. Binkerd, assignors to Armour and Company, Chicago, Ill. Treating tall oil. 2,423,236; July 1.
- Hasbrouck, Augustus, Middletown, assignor to United Aircraft Corporation, East Hartford, Conn. Supercarrier with controllable inlet. 2,431,398; Nov. 25.
- Hasbrouck, Augustus, Middletown, A. H. King, West Hartford, and L. M. Porter and G. L. Williams, Manchester, assignors to United Aircraft Corporation, East Hartford, Conn. Radial aircraft engine. 2,426,873; Sept. 2.
- Hasbrouck, Augustus, Middletown, A. H. King, West Hartford, and L. M. Porter and G. L. Williams, Manchester, assignors to United Aircraft Corporation, East Hartford, Conn. Radial aircraft engine. 2,426,874; Sept. 2.
- Hasbrouck, Augustus, Middletown, A. H. King, West Hartford, and L. M. Porter and G. L. Williams, Manchester, assignors to United Aircraft Corporation, East Hartford, Conn. Radial aircraft engine. 2,426,875; Sept. 2.
- Hasbrouck, Augustus, Middletown, A. H. King, West Hartford, and L. M. Porter and G. L. Williams, Manchester, assignors to United Aircraft Corporation, East Hartford, Conn. Radial aircraft engine. 2,426,876; Sept. 2.
- Hasbrouck, John S., Glastonbury, assignor to United Aircraft Corporation, East Hartford, Conn. Fluid coupling outlet valve thermostatic control. 2,421,501; June 3.
- Hasche, Rudolph L., Johnson City, assignor to Tennessee Eastman Corporation, Kingsport, Tenn. Furnace. 2,432,885; Dec. 16.
- Haselberger, Raymond E., St. Paul, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control mechanism. 2,427,211; Sept. 9.
- Haseltine, Nathaniel G., and M. Bock, Dallas, Tex., assignors to Sun Oil Company, Philadelphia, Pa. Method of detecting leakage in oil wells. 2,425,531; Aug. 12.
- Haseltine, Stacy B., LaGrange, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber. 2,416,691; Mar. 4.
- Haseltine, Stacy B., La Grange, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber. 2,426,684; Sept. 2.
- Haseltine, Stacy B., La Grange, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber. 2,426,685; Sept. 2.
- Haseltine, Stacy B., La Grange, assignor to W. H. Miner, Inc., Chicago, Ill. Locking center pin for railway cars. 2,427,404; Sept. 16.
- Haseltine, Stacy B., La Grange, assignor to W. H. Miner, Inc., Chicago, Ill. Locking means for railway car hand brakes. 2,429,684; Oct. 28.
- Haseltine, Stacy B., La Grange, assignor to W. H. Miner, Inc., Chicago, Ill. Resilient car-end buffer. 2,430,505; Nov. 11.
- Haseltine, Stacy B., La Grange, assignor to W. H. Miner, Inc., Chicago, Ill. Locking means for railway car hand brakes. 2,430,506; Nov. 11.
- Haseltine, Stacy B., La Grange, assignor to W. H. Miner, Inc., Chicago, Ill. Locking means for railway car hand brakes. 2,431,750; Dec. 2.
- Hasendahl, Walter, Los Angeles, Calif. Scouring chain. 2,418,552; Apr. 8.
- Hasimoto, Masayosi, Azabu-ku, Tokyo, Japan; vested in the Alien Property Custodian. Manufacturing clutch disks for airplanes. 2,415,097; Feb. 4.
- Haskel, Isidore J., Brooklyn, N. Y. Automatic shot feeding apparatus for gang saws. 2,431,555; Nov. 25.
- Haskelite Manufacturing Company, assignee: *See—*
- Geen, Henry C.
- Haskins, Bradley, Brooklyn, assignor to Remington Rand Inc., Buffalo, N. Y. Tabulator. 2,421,060; May 27.
- Haskins, Robert, Jr., Garden City, N. Y., assignor to Sperry Gyroscope Company, Inc. Gyrocompass. 2,419,948; May 6.
- Haslacher, Alfred B., New York, N. Y. Heat sealing. 2,423,237; July 1.
- Haslam, John H., assignor to The Girdler Corporation, Louisville, Ky. Pyrolysis of hydrocarbons to produce olefines. 2,418,879; Apr. 15.
- Hasler, Maurice F., assignee, et al: *See—*
- Dietert, Harry W., and King.
- Hasler, Maurice F., and R. W. Lindhurst, Glendale, Calif. Spectroscopic source unit. 2,417,489; Mar. 18.



- Hasler, Maurice F., and R. W. Lindhurst, Glendale, Calif. Direct reading spectrochemical analysis. 2,420,077; May 6.
- Hasler, Robert H., Old Westbury, N. Y. Nonicing propeller. 2,417,647; Mar. 18.
- Hasselbaum, Oscar H., assignor to Joseph Pollak Corporation, Dorchester, Mass. Electrical switch. 2,427,277; Sept. 9.
- Hasselhorn, Walter C.: *See*—  
Mahan, Louis F., Hasselhorn, and Ziebold.
- Hasselhorn, Walter C., assignor to Cook Electric Company, Chicago, Ill. Pressure switch. 2,432,312; Dec. 9.
- Hasselhorn, Walter C., and R. M. Schultz, assignors to Cook Electric Company, Chicago, Ill. Underground cable distributing unit. 2,420,478; May 13.
- Hasselquist, Victor H.: *See*—  
Haren, Urban C., and Hasselquist.
- Hassler, Gerald L., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Mechanism for developing printed materials. 2,431,041; Nov. 18.
- Hassler, Norman A., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla. Electrical system for use in photorecording. 2,415,879; Feb. 18.
- Hassler, Norman A., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla. Electrical system for use with recording meters. 2,415,880; Feb. 18.
- Hassman, Fred A.: *See*—  
Nenninger, Lester F., and Hassman.  
Vancil, Edgar D., and Hassman.
- Hastings Manufacturing Company, assignee: *See*—  
Melrose, Adolph E.  
Phillips, Harold P.
- Hastings, Randall: *See*—  
Pollak, Arthur, Chapman, and Hastings.
- Hastings, Russell, Jr., Wellesley, assignor to Lewis-Shepard Company, Watertown, Mass. Portable adjustable dumper and table. 2,432,472; Dec. 9.
- Hastings, Russell, Jr., Wellesley, and B. B. Becker, Belmont, assignors to Lewis-Shepard Company, Watertown, Mass. Power driven cylinder piston pump. 2,433,812; Dec. 30.
- Hastings, Victor E., Los Angeles, Calif. Percussion drill feed means. 2,426,686; Sept. 2.
- Hasty, Albert F., Detroit, Mich. Honing mandrel. 2,419,136; Apr. 15.
- Hat Corporation of America, assignee: *See*—  
Rickus, George M., Hoffman, and Archer.
- Hatch, Francis E., Little Rock, Ark., assignor of one-half to F. V. Hatch and one-half to T. B. Jones. Electric rotary furnace. 2,430,171; Nov. 4.
- Hatch, Frances V., assignee, et al.: *See*—  
Hatch, Francis E.
- Hatch, George B.: *See*—  
Pevere, Ernest F., Hatch, and Sensel.
- Hatch, Lewis F., Austin, Tex., and D. E. Adelson and B. O. Blackburn, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Butadiene stabilization. 2,415,009; Jan. 28.
- Hatch, Meredith R., W. B. Saul, and H. V. O'Connor, Toledo, Ohio, assignors to E. W. Bliss Company, Brooklyn, N. Y. Press. 2,432,886; Dec. 16.
- Hatcher, Creel W.: *See*—  
Hatcher, Louis and C. W.
- Hatcher, Louis, Washington, D. C., and C. W. Hatcher, Valley Forge, Pa. Newspaper dispensing apparatus. 2,432,415; Dec. 9.
- Hatfield, Dos T., assignee, et al.: *See*—  
Harold, Charles.
- Hathaway, Claude M., Denver, Colo., assignor to Hathaway Instrument Company. Electrical gaging apparatus. 2,421,420; June 3.
- Hathaway, Claude M., Denver, Colo., assignor to Hathaway Instrument Company. Galvanometer movement mounting. 2,424,823; July 29.
- Hathaway Instrument Company, assignee: *See*—  
Hathaway, Claude M.
- Hathaway, Jarrett L.: *See*—  
Wolff, Irving, and Hathaway.
- Hathaway, Jarrett L., Manhasset, N. Y., assignor to Radio Corporation of America. Electric altimeter. 2,421,785; June 10.
- Hathaway, Madeleine P., executrix: *See*—  
Perkins, Hiram A.
- Hathaway, William R., West Haven, assignor to United Advertising Corporation, New Haven, Conn. Safety device for cold cathode lights or the like. 2,430,336; Nov. 4.
- Hatke, Charles W., Denver, Colo. Reel end alarm for motion picture projectors. 2,427,140; Sept. 9.
- Hatton, John A., and D. L. Cleveland, Long Beach, and N. E. Peery, assignors to Shell Development Company, San Francisco, Calif. Utilization of powdered catalysts. 2,430,015; Nov. 4.
- Hatton, William, Maplewood, N. J., assignor to International Standard Electric Corporation, New York, N. Y. Intercept operator's position for unassigned party line stations. 2,426,210; Aug. 26.
- Hauck, Frederick P., Detroit, Mich. Coloring garnet. 2,426,021; Aug. 19.
- Hauck Manufacturing Company, assignee: *See*—  
Elze, Walter C., and Turpin.
- Haug, Eugene H., Glencoe, assignor to La Salle National Bank, Chicago, Ill., as trustee. Circuit control apparatus. 2,421,786; June 10.
- Haugh, Gordon A., assignor to Haugh's Products Limited, Toronto, Ontario, Canada. Bag making machine. 2,423,187; July 1.
- Haugh's Products Limited, assignee: *See*—  
Haugh, Gordon A.
- Haugsted, William A., Dayton, Ohio. Blower control. 2,418,835; Apr. 15.
- Haun, Joye C., San Francisco, Calif., assignor to Electric Steel Foundry, Portland, Ore. Treatment of lumber and other forest products. 2,423,020; June 24.
- Haun, Joye C., San Francisco, Calif., and R. E. and H. H. Richmond, assignors to Electric Steel Foundry, Portland, Ore. Process and apparatus for treatment of gases. 2,424,614; July 29.
- Haupt, William H.: *See*—  
Hermo, Carl E., and Haupt.
- Haupt, Walter H., Ludlow, assignor to The Kelley-Koett Manufacturing Co., Inc., Covington, Ky. Bucky retractor. 2,426,502; Aug. 26.
- Haury, Vernon E.: *See*—  
Ballard, Seaver A., and Haury.
- Haury, Vernon E., El Cerrito, and S. A. Ballard, Oakland, assignors to Shell Development Company, San Francisco, Calif. Production of diketones. 2,418,173; Apr. 1.
- Haury, Vernon E., El Cerrito, assignor to Shell Development Company, San Francisco, Calif. Production of imines. 2,421,937; June 10.
- Haury, Vernon E., El Cerrito, and S. A. Ballard, Oakland, assignors to Shell Development Company, San Francisco, Calif. Preparation of imines. 2,422,013; June 10.
- Haury, Vernon E., El Cerrito, assignor to Shell Development Company, San Francisco, Calif. Insecticidal composition. 2,425,185; Aug. 5.
- Hauser, Arthur A., Jr.: *See*—  
Campbell, David J., Harris, and Hauser.
- Hauser, Hans, assignor to Fabrique de Machines H. Hauser Soc. An., Bienne, Switzerland. Co-ordinate drilling machine. 2,428,971; Oct. 14.
- Haushalter, Fred L., Akron, Ohio. Endless track construction. 2,422,483; June 17.
- Hauser, George M., Ballston Lake, N. Y., assignor to General Electric Company. Snap action device. 2,429,812; Oct. 28.
- Hausler, George M., Schenectady, N. Y., assignor to General Electric Company. Snap action switch. 2,429,813; Oct. 28.
- Hausman, Joseph G., Cincinnati, Ohio. Dual drive for invalid equipment. 2,427,782; Sept. 23.
- Hauswirth, Vernon O.: *See*—  
Zink, William L., Hauswirth, and Geistwhite.
- Hausz, Walter, and A. Alvira, Schenectady, N. Y., assignors to General Electric Company. Pulsed oscillator. 2,426,020; Aug. 19.
- Haveg Corporation, assignee: *See*—  
Adams, William H., Jr.
- Haven, Charles D., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Multiple glazing unit. 2,419,400; Apr. 22.
- Haven, Dwight E., and C. W. Soderblom, Detroit, Mich. Shroud for machines. 2,420,706; May 20.
- Haven, Edward G., Scotia, N. Y., assignor to General Electric Company. Regulator circuit. 2,433,665; Dec. 30.
- Haviland, Lyman J., Mundelein, Ill. Sewage disposal apparatus comprising a septic tank and an evaporating tank having a vent. 2,432,887; Dec. 16.
- Havill, Clinton H., South Orange, assignor to Bendix Aviation Corporation, Bendix, N. J. Driving apparatus. 2,427,783; Sept. 23.
- Hawaiian Pineapple Company, Limited, assignee: *See*—  
Mehrlisch, Ferdinand P.
- Hawes, Bradford K., Stratford, Conn., assignor to General Electric Company. Remote recording system. 2,418,836; Apr. 15.
- Hawes, George R., Longmeadow, assignor to Buxton, Incorporated, Springfield, Mass. Key holder support. 2,414,041; Jan. 7.
- Hawkes, Thomas B., Champlain, N. Y., assignor of one-half to The Sheridan Iron Works and one-half to T. W. & C. B. Sheridan Company. Apparatus for stretch-shaping metal blanks to conform to convex curved dies. 2,431,173; Nov. 18.
- Hawkins, Floyd L., and W. D. Phillips, Birmingham, Ala. Burglar bar. 2,422,547; June 17.
- Hawkins, Floyd L., and W. D. Phillips, Birmingham, Ala. Ornamental balustrade. 2,427,723; Sept. 23.
- Hawkins, Peter A., Widnes, and N. Bennett, Ditton, England, assignors to Imperial Chemical Industries Limited. 2-hydroxy-3-chlorotetrahydropryan. 2,432,758; Dec. 16.
- Hawkins, Reginald R., Tuckahoe, N. Y. Garment hanger. 2,425,241; Aug. 5.
- Hawkins, Reginald R., Tuckahoe, N. Y. Air-conditioning system for cooling or heating. 2,428,876; Oct. 14.
- Hawkins, Willis M., North Hollywood, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Airplane control surface. 2,421,694; June 3.
- Hawkinson, Alfred T.: *See*—  
Reichert, Joseph S., and Hawkinson.



- Hawkinson, Paul E., assignor to Paul E. Hawkinson Company, Minneapolis, Minn. Tire retreading equipment. 2,418,584; Apr. 8.
- Hawkinson, Paul E., assignor to Paul E. Hawkinson Company, Minneapolis, Minn. Buffer head. 2,432,154; Dec. 9.
- Hawkinson, Paul E., Company, assignee: *See*—Hawkinson, Paul E.
- Hawley, Charles W.: *See*—Biyler, Lee L., Clough, Hawley, and Pitman.
- Hawley, Don M., administrator, et al.: *See*—Sloan, Edward C.
- Hawley, Jesse B., assignee, et al.: *See*—Sloan, Edward C.
- Hawley Products Company, assignee: *See*—Curtis, Russell H.
- Young, Serenus H. A.
- Hawley, Thomas G., Jr., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Fabric and making same. 2,413,970; Jan. 7.
- Haworth, Joseph P.: *See*—Smith, Winthrop C., and Haworth.
- Hawthorne, Charles W., Conneautville, Pa. Powder duster. 2,416,920; Mar. 4.
- Hawtin, Philip R.: *See*—Sharpshouse, John H., Hawtin, Downing, and Groombridge.
- Hay, Kenneth D., Spotswood, N. J. Pelt drying device. 2,429,814; Oct. 28.
- Hayden Chemical Corporation, assignee: *See*—Burrell, Harry, Bowman, and Barth.
- Haydock, Florence B., administratrix: *See*—Haydock, George.
- Haydock, George, deceased, by F. B. Haydock, Newport, R. I., administratrix. Armature analyzer utilizing a cathode-ray oscilloscope. 2,427,672; Sept. 23.
- Haydon, Arthur W., Marion, assignor to Haydon Manufacturing Company, Inc., Forestville, Conn. Clock construction. 2,432,416; Dec. 9.
- Haydon Manufacturing Company, Inc., assignee: *See*—Nelson, Augie L.
- Hayduk, H. H., assignee: *See*—Grief, Bonney H.
- Hayes, Albert N., assignor to G. C. McCullough, Birmingham, Ala. Process and apparatus for producing lightweight slag. 2,417,301; Mar. 11.
- Hayes, Clifford F., assignee, et al.: *See*—Hayes, Jonathan B.
- Hayes Econcrete Corporation of America, assignee: *See*—Hayes, Hal B.
- Hayes, Granville R., assignee, et al.: *See*—Hayes, Jonathan B.
- Hayes, Hal B., Tujunga, Calif., assignor to Hayes Econcrete Corporation of America, Reno, Nev. Power unit for cranes. 2,432,663; Dec. 16.
- Hayes, Harvey C., Washington, D. C. Balanced driver for sonic depth finder. 2,424,030; July 15.
- Hayes, Harvey C., Washington, D. C., and H. M. Trent, and T. F. Jones, Alexandria, Va. Distance measuring. 2,428,799; Oct. 14.
- Hayes, James H.: *See*—O'Quinn, C. L., and Hayes.
- Hayes, John E. R., trustee, assignee: *See*—Bono, Austin J.
- Hayes, John G., San Mateo, Calif., assignor to American Can Company, New York, N. Y. Electrically welding metal keys to metal can ends having protective coatings of limited extent. 2,431,325; Nov. 25.
- Hayes, Jonathan B., Kansas City, Kans., assignor of one-fourth to V. P. Hayes, Los Angeles, Calif., one-fourth to G. R. Hayes, Kansas City, Kans., and one-fourth to C. F. Hayes, Sedalia, Mo. Concrete spring tie. 2,421,502; June 3.
- Hayes, Malcolm L.: *See*—Demb, Kenneth, and Hayes.
- Hayes Manufacturing Corporation, assignee: *See*—Haydon, Arthur W.
- Hayes, Mary B., Columbia, S. C. Dress. 2,413,826; Jan. 7.
- Hayes, Millard F., assignor to The Sandy Hill Iron & Brass Works, Hudson Falls, N. Y. Clutch mechanism. 2,422,896; June 24.
- Hayes, Ralph F., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Photopolymerization. 2,433,047; Dec. 23.
- Hayes, Stanley W., assignor to Hayes Track Appliance Company, Richmond, Ind. Derail guide box. 2,430,567; Nov. 11.
- Hayes, Thomas E., Washington, D. C. Paper money sorting machine. 2,425,318; Aug. 12.
- Hayes, Thomas E., Washington, D. C. Paper money sorting and counting machine. 2,429,159; Oct. 14.
- Hayes Track Appliance Company, assignee: *See*—Hayes, Stanley W.
- Hayes, Vincel P., assignee, et al.: *See*—Hayes, Jonathan B.
- Hayes, Walter A., Denver, Colo. Securing means for anti-skid devices. 2,417,752; Mar. 18.
- Hayes, William W., Towson, Md., assignor to Bendix Aviation Corporation, South Bend, Ind. Acoustic system for uniform distribution of sound. 2,419,894; Apr. 29.
- Hayman, Richard L., North Hollywood, Calif. Tube holding block. 2,425,935; Aug. 19.
- Haynes, Cecil J., and S. E. Swain, Houston, Tex., assignors to Standard Oil Development Company. Device for cleaning pipe lines. 2,418,880; Apr. 15.
- Haynes, Frederick J., assignee: *See*—Wilcox, George D.
- Haynes, Harold E., Indianapolis, Ind., assignor to Radio Corporation of America. Differential voltage control system. 2,421,560; June 3.
- Haynes, Harold E., Indianapolis, Ind., assignor to Radio Corporation of America. Average value voltage measuring device. 2,424,312; July 22.
- Haynes, Howard, Willoughby, and L. S. Ickis, Jr., East Cleveland, Ohio, assignors to General Electric Company. Gaseous electric discharge lamp. 2,424,457; July 22.
- Haynes, James R.: *See*—Depew, Charles, Depp, Luce, and Haynes.
- Haynes, Robert, Los Angeles, Calif. Constant drive variable-speed transmission. 2,427,724; Sept. 23.
- Haynes Stellite Company, assignee: *See*—Franks, Russell, and Binder.
- Wagner, Robert L.
- Hays, Charles H., Jr., Northeast, Pa., assignor to Jamestown Metal Equipment Company, Inc., Jamestown, N. Y. Combined clothes receptacle and extractor for laundering machines. 2,414,645; Jan. 21.
- Hays Corporation, The, assignee: *See*—Burns, Frank D.
- Kurland, Leonard.
- Hays, Fred N., Edgewood, Pa., assignor to Carnegie-Illinois Steel Corporation. Operating sectionable heat exchangers. 2,429,880; Oct. 28.
- Hays, Roy W.: *See*—Dodge, Adiel Y., and Hays.
- Hays, Russell R., Lawrence, Kans. Control means for helicopters. 2,418,407; Apr. 1.
- Hays, Russell R., Lawrence, Kans. Helicopter. 2,420,823; May 20.
- Hays, Russell R., Lawrence, and C. K. Razak, Wichita, Kans.; said Razak assignor to said Hays. Control means for helicopters. 2,414,258; Jan. 14.
- Hays, Thomas W., Salt Lake City, Utah, assignor to The Union Switch and Signal Company, Swissvale, Pa. Railway traffic controlling apparatus with manual change-over from remote to local control. 2,430,291; Nov. 4.
- Hayter, Bruce: *See*—Breese, James L., and Hayter.
- Hayter, Bruce, assignor to Oil Devices, Santa Fe, N. Mex. Burner pot. 2,415,098; Feb. 4.
- Hayter, Bruce, assignor to Oil Devices, Santa Fe, N. Mex. Inverted pot type burner. 2,418,709; Apr. 8.
- Haytock Silk Throwing Company, assignee: *See*—Chipman, Charles.
- Hayward, Landes H., Los Angeles, Calif. Apparatus for cementing wells. 2,431,751; Dec. 2.
- Hayward, Roger, Pasadena, Calif. Testing optical surfaces. 2,430,637; Nov. 11.
- Hazard, William H., Chicago, assignor to Woodruff & Edwards, Inc., Elgin, Ill. Pump. 2,419,775; Apr. 29.
- Hazeltine Research, Inc., assignee: *See*—Bels, Basil A.
- Bloch, Alfred.
- Craib, James F.
- Dunning, Orville M.
- Hansen, John A., and Loughlin.
- Hurst, William M.
- Johnson, John K.
- Larson, Gilbert C.
- Lewis, Harold M.
- Loughlin, Bernard D.
- Loughren, Arthur V.
- Malling, Leonard R.
- Nechamkin, Howard.
- Stein, Edward J.
- Wheeler, Harold A.
- Wilson, John C.
- Hazen, Allen, West Buxton, Maine. Miniature rail chair and tie plate for scale models. 2,426,452; Aug. 26.
- Hazen, James D., assignor to D. W. Cruikshank, Portland, Oreg. Diaper. 2,425,617; Aug. 12.
- Hazewinkel, Reurt C., Zuilen-Utrecht, Netherlands. Apparatus for bending and driving in staples. 2,422,641; June 17.
- Head, Ernest C., deceased, Detroit, Mich., by Gleason Works, assignee, Rochester, N. Y. Gear cutter. Re. 22,891; June 24.
- Head, James D.: *See*—Elderfield, Robert C., and Head.
- Head, Wrightson & Company, assignee: *See*—Scott, Kenneth M., and Abisch.
- Heal, Lionel C., Reading, England, assignor to Miles Aircraft Limited. Aircraft supporting surface. 2,418,301; Apr. 1.
- Heald, Robert F., Nutley, and M. L. Givan, Orange, assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Preparation of spray dried soap particles having only slight dust-forming tendencies. 2,423,449; July 8.
- Heald, Robert F., Nutley, and M. L. Givan, East Orange, assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Preparation of synthetic organic detergent particles having only slight dust-forming tendencies. 2,423,450; July 8.



- Healy, Francis P., assignor to Van Norman Company, Springfield, Mass. Chuck for crankshaft grinders. 2,429,685; Oct. 28.
- Healy, Francis P., Springfield, and E. A. Allen, Westfield, assignors to Van Norman Company, Springfield, Mass. Boring bar guiding mechanism. 2,416,996; Mar. 4.
- Healy, James F., Chicago, Ill. Truss for hernia or rupture. 2,430,172; Nov. 4.
- Healy, Joseph F., Jr.: *See*—  
Hubbell, Harvey, and Healy.
- Healy, Marvin G., Montebello, Calif. Halving and reaming machine for extracting juice from citrus fruit. 2,428,157; Sept. 30.
- Heany, John A., New Haven, Conn. Corundum jewel. 2,427,454; Sept. 16.
- Heard, Joseph R., Jr., New York, N. Y., assignor to Wyandotte Chemicals Corporation, Wyandotte, Mich. Separation of ethylene chlorohydrin from higher chlorohydrins. 2,417,685; Mar. 18.
- Hearing Aid Battery Corp., assignee: *See*—  
Wiencke, Herman W.
- Hearn, Richard B., Hollis, N. Y., and C. B. Sutliff, East Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Intermediate telegraph repeater for long line spans. 2,422,677; June 27.
- Hearne, George W.: *See*—  
Yale, Harry L., and Hearne.
- Hearne, George W., El Cerrito, and D. S. La France, Richmond, assignors to Shell Development Company, San Francisco, Calif. Production of haloprenes. 2,430,016; Nov. 4.
- Heasty, Humphrey N., Milwaukee, Wis. Wall switch. 2,421,881; June 10.
- Heater, Charles L., and C. J. W. Clasen, assignors to American Steel Foundries, Chicago, Ill. Truck. 2,422,014; June 10.
- Heath, Alton B., Tipton, Ind. Tractor control device. 2,432,417; Dec. 9.
- Heath, Louis T., and V. C. Gilbert, Fort Knox, Ky. Water-cooled ammunition rack. 2,420,663; May 20.
- Heath, Robert, Fort Collins, Colo. Implement hitch for tractors. 2,417,595; Mar. 18.
- Heath, Royden L.: *See*—  
Buckley, Gerard D., and Heath.
- Heath, Sheldon B., and C. A. Kuehl, assignors to The Dow Chemical Company, Midland, Mich. Making fused salt mixtures. 2,418,408; Apr. 1.
- Heathway Engineering Company Limited, assignee: *See*—  
Porter, Charles B. A.
- Heaton, Nathan C., and S. A. Sarnecki, assignors to Montgomery Ward & Co., Incorporated, Chicago, Ill. Bundling machine. 2,425,430; Aug. 12.
- Heaton, Tom, Toronto, Ontario, Canada. Folding reclining chair. 2,427,405; Sept. 16.
- Heavens, E. M., assignee, et al.: *See*—  
Huge, Henry M.
- Hebard, George P., Davenport, Iowa, and H. E. Sheets, St. Paul, Minn., assignors to American Machine and Metals, Inc., East Moline, Ill. Cleaning fabrics. 2,422,897; June 24.
- Hebard, Hugh C., Northwood, England. Fuze for bombs, projectiles, and the like. 2,418,769; Apr. 8.
- Hebard, Hugh C., Northwood, England. Detonating mechanism. 2,422,548; June 17.
- Hebel, Carl G., Weehawken, assignor to Sperry Products, Inc., Hoboken, N. J. Liquid control gear. 2,414,302; Jan. 14.
- Hebel, Carl G., Leonia, assignor to Sperry Products, Inc., Hoboken, N. J. Liquid control gear. 2,416,054; Feb. 18.
- Hebel, Carl G., Leonia, assignor to Sperry Products, Inc., Hoboken, N. J. Electrohydraulic lock and temperature compensator for liquid control gears. 2,430,930; Nov. 18.
- Hebert, Edward L., Biddeford, Maine. Oar propelling means. 2,427,278; Sept. 9.
- Hebner, Philip G.: *See*—  
Matteson, Arch R., and Hebner.
- Hechenbleikner, Ingenium: *See*—  
Nolan, Kenneth G., and Hechenbleikner.
- Hecht, George, Astoria, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Time measuring system. 2,422,655; June 24.
- Heckendorf, Hebert: *See*—  
Parks, Wesley E., Heckendorf, and Holzberger.
- Hecker, Harvard K., Clayton, Mo. Work holding mechanism. 2,426,095; Aug. 19.
- Heckert, Frederick W., and R. R. Curtis, assignors to Curtis Pump Company, Dayton, Ohio. Self-priming pump. 2,430,337; Nov. 4.
- Heckert, Winfield W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Method and apparatus for metering, in its bubble-free state, a bubble-containing fluid. 2,424,750; July 29.
- Heckert, Winfield W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Pumping. 2,424,751; July 29.
- Heckman, Edward F., U. S. Naxy. Rubber footwear. 2,426,211; Aug. 26.
- Hedemark, Fred, Prospect Heights, assignor to Skilsaw, Inc., Chicago, Ill. Floor sander. 2,431,613; Nov. 25.
- Hedene, Edwin E., Oakland, Calif., assignor to Rockwell Manufacturing Company, Pittsburgh, Pa. Automatic closing valve. 2,426,212; Aug. 26.
- Hedge, Lafayette B.: *See*—  
Balleisen, Charles E., and Hedge.
- Hedges, Don F., Crown Point, Ind., assignor to Carnegie-Illinois Steel Corporation. Transportation load and preparing the same. 2,424,395; July 22.
- Hedges, Don F., Crown Point, Ind., assignor to Carnegie-Illinois Steel Corporation. Transportation load and preparing the same. 2,427,279; Sept. 9.
- Hedley, Nicholas B., and Carmen Stacey, assignors to Willys-Overland Motors, Inc., Toledo, Ohio. Adjustable seat. 2,428,217; Sept. 30.
- Hedman, Toivo E., Washington, D. C. Air boot. 2,430,466; Nov. 11.
- Hedstrom-Union Company, assignee: *See*—  
Boudreau, Alban M.
- Heeger, Benjamin D.: *See*—  
Andrews, Daly P., Heeger, and Smith.
- Heer, Jules: *See*—  
Miescher, Karl, and Heer.
- Heer, Walter, assignor to Escher Wyss Maschinenfabriken Aktiengesellschaft, Zurich, Switzerland. Machine for machining any kind of curved surfaces. 2,424,031; July 15.
- Heermans, Thaddeus A., Dallas, Tex. Tamper pliers. 2,424,752; July 29.
- Hefe, Edward J., Bronx, assignor to Bruno Patents, Inc., Long Island City, N. Y. Ultra high frequency deflection modulated tube. 2,419,895; Apr. 29.
- Heflter, Maurice B., Grosse Pointe, assignor to Chrysler Corporation, Highland Park, Mich. Overlapping joint. 2,415,881; Feb. 18.
- Heflter, Paul, Windsor, Ontario, Canada. Turbosupercharger. 2,428,708; Oct. 7.
- Hegeman, Andrew S., Jr.: *See*—  
Hansen, Lloyd D., Hegeman, and Snook.  
Harris, Fred E., Hegeman, and Snook.
- Hegy, Louis, Burbank, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Actuating mechanism for radio condensers. 2,432,418; Dec. 9.
- Heidbrink, Jay A., Minneapolis, Minn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Leak tester for therapeutic masks. 2,420,372; May 13.
- Heidbrink, Jay A., Minneapolis, Minn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Humidifier for oxygen gas. 2,428,277; Sept. 30.
- Heidenfelder, Fred A.: *See*—  
Bicknell, George R., and Heidenfelder.
- Heidman, William A., Jr.: *See*—  
Heidman, William A. and W. A., Jr.
- Heidman, William A. and W. A., Jr., Grand Rapids, Mich. Automatic load releasing coupling or clutch for parachutes and the like. 2,420,746; May 20.
- Heigl, John J., Tulsa, Okla., assignor to Standard Oil Development Company. Oil determination. 2,423,774; July 8.
- Heigle, George P., Boston, Mass. Implement holder. 2,431,118; Nov. 18.
- Heijmer, Gustaf B., Enebyberg, Sweden. Emulsions for painting and varnishing purposes. 2,424,458; July 22.
- Heijn, Paul C.: *See*—  
Osterberg, Harold, and Heijn.
- Heil Co., The, assignee: *See*—  
Frentzel, Herman C., Jr., and Errath.
- Heilbron, Ian M.: *See*—  
Basford, Frederick R., Coates, Heilbron, and Cook.
- Heiligmann, Randall G.: *See*—  
Hersberger, Arthur B., and Heiligmann.
- Helm, Anna E., assignee, et al.: *See*—  
Helm, Lewis R.
- Helm, Charles R., assignee, et al.: *See*—  
Helm, Lewis R.
- Helm, Howard J., West Lafayette, Ind., assignor to Radio Corporation of America. Wave guide. 2,414,376; Jan. 14.
- Helm, Lewis R., assignor of twenty-five per cent to A. E. Helm, twenty-five per cent to C. R. Helm, and twenty-five per cent to F. H. Van Etten, Fairfield, Conn. Internal grinding machine. 2,430,423; Nov. 4.
- Heiman, Louis P., St. Paul, Minn. Device for reciprocating pump rods. 2,417,411; Mar. 18.
- Heiman, Salomon, New York, N. Y. Shoe. 2,430,338; Nov. 4.
- Heimann, Heinrich: *See*—  
Schaaff, Louis W., Heimann, and Wurzel.
- Heimbach, Newton, Johnson City, assignor to General Aniline & Film Corporation, New York, N. Y. Azo hydroxy aza indolizines. 2,432,419; Dec. 9.
- Hein, Clarence A., Denver, Colo. Cabinet finishing tool. 2,429,550; Oct. 21.
- Heineman, Arnold H.: *See*—  
Baer, John M., and Heineman.
- Heineman, Arnold H., Chicago, Ill., assignor to The Guardite Corporation. Vacuum chamber. 2,415,425; Feb. 11.
- Heineman, Arnold H., Chicago, Ill., assignor to The Guardite Corporation. Vacuum cooler and cleaning the same. 2,420,396; May 13.
- Heineman, Arnold H., Chicago, Ill., assignor to The Guardite Corporation. Splash shield for vacuum coolers. 2,426,096; Aug. 19.
- Heineman, John H., assignor to C. G. Conn, Ltd., Elkhart, Ind. Magazine for magnetic recording apparatus. 2,415,133; Feb. 4.



- Heineman, Stephen D.: *See*—  
Goldberg, Moses W., and Heineman.  
Heinemann Electric Company, assignee: *See*—  
Wilckens, Kurt W.  
Heinemann, Heinz, and W. A. La Lande, Jr., Upper Darby, assignors to Porcel Corporation, Philadelphia, Pa. Polymerization of olefin hydrocarbons. 2,427,907; Sept. 23.  
Heinemann, Karl F.: *See*—  
Stettner, Ludwig W., and Heinemann.  
Heininger, Walter J., Buffalo, N. Y. Sheathing for buildings. 2,433,694; Dec. 30.  
Heinrich, Raymond L., Wooster, Tex., assignor to Standard Oil Development Company. Absorption of olefins. 2,414,737; Jan. 21.  
Heinrich, Robert O., Racine, Wis. Quick locking vise. 2,424,313; July 22.  
Heintz Manufacturing Company, assignee: *See*—  
D'Ardenne, Walter H. D., Meinel, de Vore, and Wolf. Lambert, Albert L., and d'Ardenne.  
Trautvetter, George.  
Trautvetter, George, and Lambert.  
Heintz, Ralph M., assignor, by mesne assignments, to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Phonograph pickup device. 2,413,971; Jan. 7.  
Heintze, Carl F., Amityville, N. Y. Speed responsive controlled one-way engaging clutch. 2,433,553; Dec. 30.  
Heintzelman, Leo A., Grand Rapids, Mich. Valve core remover. 2,417,360; Mar. 11.  
Heintzelman, Leo A., Grand Rapids, Mich. Propeller blade. 2,422,098; June 10.  
Heinz, Winfield B.: *See*—  
Dannehower, Gilbert L., and Heinz.  
Heinze, John O., assignor to Doyle Manufacturing Corporation, Syracuse, N. Y. Engine governor. 2,414,947; Jan. 28.  
Heise, George W.: *See*—  
Winslow, Nathaniel M., and Heise.  
Heisel, Andrew G., Pekin, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif. Throttle control mechanism. 2,433,217; Dec. 23.  
Heiss, Frederick H.: *See*—  
Lacey, Harold T., Millson, and Heiss.  
Heltzman, Richard J., assignor of one-half to W. H. Ressler, Shamokin, Pa. Tool for forcing the bead of a partially mounted tire into the rim. 2,419,352; Apr. 22.  
Helbig, Hugo, Racine, Wis. Lawn perforating machine. 2,422,729; June 24.  
Helbronner, André: *See*—  
Bergier, Jacques, Eskenazi, and Helbronner.  
Helbush, Herman H., assignee: *See*—  
Wright, John C.  
Held, Thomas R., Aurora, Ill., assignor to Stephens-Adamson Mfg. Co. Materials sampler. 2,421,938; June 10.  
Helgeson, Oscar C., Dawson, Minn. Tube end flaring tool. 2,415,882; Feb. 18.  
Helgren, George F., Mound, Minn. Animated toy. 2,425,471; Aug. 12.  
Heldén, Knut G. V., Lysekil, Sweden. Machine for cutting fish. 2,421,262; May 27.  
Heller, Philip, New York, N. Y. Attachable tray for armchairs, bridge tables, and the like. 2,426,097; Aug. 19.  
Heller, William, Inc., assignee: *See*—  
Lehman, Nathan.  
Hellermann Electric Limited, assignee: *See*—  
Anselmi, Anthony C.  
Helliar, Cyril, Vancouver, British Columbia, Canada. Apparatus for reactivating radio tubes. 2,413,707; Jan. 7.  
Helliwell's Limited, assignee: *See*—  
Ransom, Jack.  
Hellmann, Reinhard K., assignor to Great American Industries, Inc., Meriden, Conn. Signaling generator mechanism. 2,420,638; May 13.  
Hellstrom, Arthur W., Chicago, assignor to Kropp Forge Aviation Co., Cicero, Ill. Water-cooled furnace door. 2,422,015; June 10.  
Helm, Herbert R., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Bell type gassing and vacuumizing apparatus for dehydrated products. 2,423,975; July 15.  
Helmco, Inc., assignee: *See*—  
Gunther, Frederick F.  
Helmers, Carl J.: *See*—  
Schulze, Walter A., and Helmers.  
Helmers, Carl J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Hydrocarbon conversion process. 2,416,479; Feb. 25.  
Helmkamp, Richard F., Jersey City, N. J., assignor to Air Reduction Company, Incorporated. Floating parallelogram cutting machine. 2,429,686; Oct. 28.  
Helms, Clyde E., Alamosa, Colo. Sack holder. 2,420,243; May 6.  
Helmstein, Lars J. T., Stockholm, and K. J. W. Jansson, Midsmomarkransen, Sweden, assignors to SKF Industries, Inc., Philadelphia, Pa. Speed selector for gear boxes. 2,429,160; Oct. 14.  
Helmus, Andrew J. R., St. Petersburg, Fla. Artificial bait. 2,430,114; Nov. 4.  
Helmuth, Richard E.: *See*—  
Ransburg, Harold P., and Helmuth.  
Helmuth, Richard E., assignor to Harper J. Ransburg Company, Indianapolis, Ind. Electrostatic coating method. 2,421,787; June 10.  
Hempelbringer, James N., Evanston, Ill. Continuously operating ice cube making machine. 2,429,461; Oct. 21.  
Helsel, Reuben H., Long Island City, assignor to General Register Corporation, New York, N. Y. Ticket issuing machine. 2,417,596; Mar. 18.  
Helsel, Reuben H., Long Island City, assignor to General Register Corporation, New York, N. Y. Selectively feeding and printing tickets. 2,427,602; Sept. 16.  
Helsten, Wesley A.: *See*—  
Tack, Carl E., and Helsten.  
Heltzel, John N., Warren, Ohio. Concrete expansion joint. 2,416,584; Feb. 25.  
Heltzel, John N., Warren, Ohio. Slab connection. 2,419,022; Apr. 15.  
Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Integrating weighing scale. 2,424,167; June 10.  
Hemming, Harold, Dedham, assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Overhead air distributing duct for a vehicle having a means for mixing cold and recirculated air. 2,422,782; June 24.  
Hemming, Harold, Dedham, and C. R. Keep, Norwood, Mass., assignors to Westinghouse Electric Corporation. Refrigeration apparatus. 2,426,827; Sept. 2.  
Hemming, Charles E., Westfield, N. J., assignor to Standard Oil Development Company. Alkylation process. 2,417,251; Mar. 11.  
Hemming, Charles E., Westfield, N. J., assignor to Standard Oil Development Company. Removing inorganic impurities from mineral oils, preparatory to catalytic cracking. 2,425,532; Aug. 12.  
Hemming, Charles E., Westfield, N. J., assignor to Standard Oil Development Company. Catalytic conversion of hydrocarbons. 2,428,666; Oct. 7.  
Hemming, Charles E., Westfield, and E. J. Gohr, Summit, N. J., assignors to Standard Oil Development Company. Catalytic treatment of hydrocarbon oils. 2,421,616; June 3.  
Hempel, Charles H., and F. J. Ploederl, Manitowoc, Wis., assignors to Heresite & Chemical Company. Coating composition comprising phenolformaldehyde resin in a mixture of solvents. 2,420,134; May 6.  
Hempel, Herbert, Essex, assignor to Gorton-Pew Fisheries Company, Ltd., Gloucester, Mass. Treating salt and product thereof. 2,424,615; July 29.  
Hemphill Company, assignee, et al.: *See*—  
Delmonte, John.  
Fregeolle, Oscar.  
St. Pierre, Eugene.  
Hemphill, Ralph, assignee, et al.: *See*—  
Delmonte, John.  
Henckler, Edward, Jersey City, and H. Weber, Ridgefield Park, N. J. Resistor ballast. 2,423,021; June 24.  
Henderson, Albert, Edgewood, assignor to W. P. Witherow, Pittsburgh, Pa. Precast concrete corrugated connection. 2,414,738; Jan. 21.  
Henderson, Albert, Edgewood, assignor to W. P. Witherow, Pittsburgh, Pa. Precast reinforced concrete member. 2,423,936; July 15.  
Henderson, Albert, Edgewood Borough, assignor to W. P. Witherow, Pittsburgh, Pa. Precast reinforced concrete members. 2,420,427; May 13.  
Henderson, Ashland S.: *See*—  
Williams, Clyde E., and Henderson.  
Henderson, Clara M., Burlington, Iowa. Floor coaster. 2,424,032; July 15.  
Henderson, George C., Detroit, Mich. Monorail track support. 2,425,739; Aug. 19.  
Henderson, James R., Harriman, Tenn., assignor of one-half to D. Linardy, Miami, Fla. Electrical outlet box and wire connection. 2,427,965; Sept. 23.  
Henderson, John R., Indianapolis, Ind. Lift truck. 2,423,703; July 8.  
Henderson, Lawrence M.: *See*—  
Ayers, George W., Harton, and Henderson.  
Henderson, Lawrence M., Winnetka, and G. W. Ayers, Jr., assignors to The Pure Oil Company, Chicago, Ill. Recovery of naphthenic acids. 2,420,244; May 6.  
Henderson, Lawrence M., Winnetka, D. C. Bond, Northbrook, and M. Savoy, Chicago, assignors to The Pure Oil Company, Chicago, Ill. Removal of peroxides from hydrocarbon oils. 2,427,212; Sept. 9.  
Henderson, Lloyd F., Reading, and L. H. Libby, Boston, assignors to Lever Brothers Company, Cambridge, Mass. Treating soybean and similar glyceride oils. 2,428,367; Oct. 7.  
Hendley, James A., assignor to The Russell Manufacturing Company, Middletown, Conn. Cartridge feed belt for machine guns. 2,422,898; June 24.  
Hendra, Henry J., Montreal, Quebec, Canada. Trimming machine. 2,420,747; May 20.  
Hendrick, John M., Burbank, Calif. Wheeled suitcase. 2,416,752; Mar. 4.  
Hendricks, Cornelius, Grand Rapids, Mich., assignor to The Torrington Company, Inc., South Bend, Ind. Roller bearing cage. 2,430,397; Nov. 4.  
Hendrickson, Fritz E., South Elgin, assignor of one-half to M. Ireland, Elgin, Ill. Buffing wheel. 2,415,747; Feb. 18.  
Hendrickson, Harold A., Jr., Red Bank, N. J. Saw filing machine. 2,432,420; Dec. 9.



- Hendrickson, Harold G., Daly City, and V. J. Hagberg, assignors to M. Greenberg's Sons, San Francisco, Calif. Fixture for lathe turning of angularly disposed surfaces. 2,415,590; Feb. 11.
- Hendrickson, Raymond R., assignee, et al.: *See*—Shipley, George C.
- Hendrickson, William G.: *See*—Daniels, Farrington, Hendrickson, and Wolf.
- Hendrix, William R., Long Beach, Calif. Suspension mechanism for vehicles. 2,416,388; Feb. 25.
- Hendry, Ralph A., Truro, Nova Scotia, Canada. Drafting instrument. 2,428,310; Sept. 30.
- Henkel, Ferdinand J., Royal Oak, assignor to Lamina Dies and Tools, Inc., Berkley, Mich. Grinding wheel dresser. 2,425,095; Aug. 5.
- Henley, Charles V., Stone Mountain, Ga. Boll weevil eradicator. 2,419,353; Apr. 22.
- Henley, W. T., Telegraph Works Company Limited, assignee: *See*—Dunsheath, Percy.  
MacDonald, Hector A.  
Tunstall, Harold A.
- Henley's, W. T., Telegraph Works Company, assignee: *See*—Griffiths, Francis T.  
Macdonald, Hector A.  
Pollett, William F. O.
- Henley's Tyre & Rubber Company Limited, assignee: *See*—Woods, Edgar C.
- Hennefer, Fred L.: *See*—Flippen, Leroy R., and Hennefer.
- Hennemann, Raymond G., St. Louis County, assignor to Carter Carburetor Corporation, St. Louis, Mo. Choke and throttle connection. 2,426,272; Aug. 26.
- Hennessey, James J., Montclair, N. J. Railway lubricator. 2,423,775; July 8.
- Hennessey, James J., Montclair, N. J. Lubricant distributor. 2,425,186; Aug. 5.
- Hennig, Fritz O.: *See*—Smith, Ronald B., and Hennig.
- Hennig, Fritz O., Greensburg, assignor to Elliott Company, Jeannette, Pa. Support for expansible members. 2,420,135; May 6.
- Henning, George E., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Detector for locating imperfections in knitted fabrics. 2,427,406; Sept. 16.
- Henning, Otto, assignor, by mesne assignments, to Carter Carburetor Corporation, St. Louis, Mo. Internal-combustion engine. 2,421,733; June 3.
- Henning, Sherburne B., Evanston, Ill. Isolation of proteins. 2,415,426; Feb. 11.
- Henningfield, Roland F., Racine, Wis. Thermostatic switch for hot-water supply. 2,420,777; May 20.
- Henricks, John A., Ann Arbor, assignor to Houdaille-Hershey Corporation, Detroit, Mich. Method and electrolyte for the electro-deposition of metals. 2,424,887; July 29.
- Henriquez, Robert E., Monroe, Wis. Low-voltage defrosting device. 2,428,667; Oct. 7.
- Henrite Products Corporation, assignee: *See*—Henry, Albert C., and Bitonte.
- Henroteau, Francois C. P., Ottawa, Ontario, Canada. Method and apparatus for measuring distance. 2,415,591; Feb. 11.
- Henroteau, Francois C. P., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Optical system for correction of tube wall distortion. 2,429,462; Oct. 21.
- Henry, Albert C., and J. L. Bitonte, assignors to Henrite Products Corporation, Ironton, Ohio. Electrical brush. 2,416,480; Feb. 25.
- Henry, Albert R., Salina, assignor to Henry Manufacturing Company, Inc., Topeka, Kans. Drum-cable attaching means. 2,421,788; June 10.
- Henry, Albert R., Salina, assignor to Henry Manufacturing Company, Inc., Topeka, Kans. Haystacker attachment for tractors. 2,426,687; Sept. 2.
- Henry, Fred B., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Mold dumping apparatus. 2,431,174; Nov. 18.
- Henry, Guy J., Chicago, Ill. Pipe coupling. 2,419,642; Apr. 29.
- Henry Manufacturing Company, Inc., assignee: *See*—Henry, Albert R.
- Henry, Nelson R., Atlanta, Ga. Method and apparatus for forming flexible tubes. 2,418,974; Apr. 15.
- Henry, William V., Candler, assignor to American Enka Corporation, Enka, N. C. Device for use in the manufacture of synthetic threads. 2,424,490; July 22.
- Henschke, William O., Longmeadow, assignor to American Bosch Corporation, Springfield, Mass. Sealing high-tension wires in sockets. 2,419,683; Apr. 29.
- Hensel, Franz R., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Electric contact and brush. 2,418,710; Apr. 8.
- Hensel, Franz R., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Platinum base alloy and spark plug electrode. 2,432,888; Dec. 16.
- Hensel, Franz R., and E. I. Larsen, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Sintered aluminum bearing. 2,418,881; Apr. 15.
- Hensel, Franz R., and E. I. Larsen, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Welding electrode cooling. 2,422,962; June 24.
- Hensley, Guy P.: *See*—Peebles, David D., and Hensley.
- Hensley, Lee C.: *See*—Anish, Alfred W., and Hensley.
- Henson, Charles W., Lawrenceville, Ga. Safety pocket. 2,421,695; June 3.
- Hepp, Harold J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Removing organically combined chlorine from hydrocarbons. 2,413,871; Jan. 7.
- Hepp, Harold J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Hydration of cyclic olefins. 2,414,646; Jan. 21.
- Hepp, Rudolf, Berlin, Germany; vested in the Attorney General of the United States. Apparatus for taking folded or unfolded sheets of paper from a pile thereof and conveying the same to a device for further treatment. 2,425,936; Aug. 19.
- Heppell, George, St. Lambert, and W. Francoeur, Montreal, Quebec, Canada. Tempering of fabricated glass articles. 2,429,129; Oct. 14.
- Heppner, Fritz A. M., Leamington Spa, assignor to Armstrong Siddeley Motors Limited, Coventry, England. Compound internal-combustion turbine plant. 2,426,098; Aug. 19.
- Heppner, Fritz A. M., Leamington Spa, assignor to Armstrong Siddeley Motors Limited, Coventry, England. Assembly of multistage internal-combustion turbines embodying contrarotating bladed members. 2,428,330; Sept. 30.
- Heppner, Fritz A. M., Leamington Spa, assignor to Armstrong Siddeley Motors Limited, Coventry, England. Jet-propulsion internal-combustion turbine plant. 2,430,398; Nov. 4.
- Heppner, Fritz A. M., Leamington Spa, assignor to Armstrong Siddeley Motors Limited, Coventry, England. Jet augments for combustion turbine propulsion plants. 2,430,399; Nov. 4.
- Heppner, Fritz A. M., Leamington Spa, assignor to Armstrong Siddeley Motors Limited, Coventry, England. Securing projections to rotors. 2,431,249; Nov. 18.
- Heppner, Fritz A. M., Leamington Spa, J. D. Voce, and D. R. Evans, assignors to Armstrong Siddeley Motors Limited, Coventry, England. Torque balancing of jet propulsion turbine plant. 2,416,389; Feb. 25.
- Herard, Archibald J., Jr.: *See*—Bergstrom, Carl P., and Herard.  
Kronoff, Clarence R., and Herard.
- Herbener, Henry M., Thomasville, Ga. Folder, bill folder and pocket construction. 2,426,503; Aug. 26.
- Herbener, Henry M., Thomasville, Ga. Combination pocketbook and card case. 2,426,504; Aug. 26.
- Herbener, Henry M., Thomasville, Ga. Refrigerator with holdover arrangement. 2,428,311; Sept. 30.
- Herbener, Henry M., Thomasville, Ga. Refrigerator. 2,428,312; Sept. 30.
- Herberg, Thorolf H.: *See*—Bingham, James B., Herberg, and Holkesvig.
- Herbert, Frederick D., Jr., Upper Montclair, N. J., assignor, by mesne assignments, to Kearfott Company, Inc., New York, N. Y. Device for introducing motion into sealed instruments. 2,419,074; Apr. 15.
- Herbert, Stanley C., Nunhead, London, S. E. 15, England. Machine for filling and otherwise preparing envelopes for post. 2,423,146; July 1.
- Herbig, Henry F.: *See*—Deakin, Gerald, and Herbig.
- Herbig, Henry F., Summit, N. J., assignor to International Standard Electric Corporation, New York, N. Y. Matched potential electrical control. 2,428,024; Sept. 30.
- Herbine, Richard H.: *See*—Sondern, Clarence W., and Herbine.
- Herbst, Harry T., Elizabeth, N. J., assignor to Union Carbide and Carbon Corporation. Multiflame welding apparatus. 2,414,873; Jan. 28.
- Herbst, Harry T., Burlingame, Calif., assignor to Union Carbide and Carbon Corporation. Welding. 2,414,874; Jan. 28.
- Herbst, Harry T., Baltimore, Md., assignor to Union Carbide & Carbon Corporation. Apparatus for cutting tubes. 2,417,412; Mar. 18.
- Herbst, Harry T., Baltimore, Md., assignor to Union Carbide and Carbon Corporation. Skelp edge welding. 2,423,188; July 1.
- Herbst, John A., assignor to The North Electric Manufacturing Company, Gallion, Ohio. Telegraph relay. 2,428,218; Sept. 30.
- Herbst, Philip J., Fort Wayne, Ind., assignor to Radio Corporation of America. Magnetostrictive electro-acoustic transducer. 2,421,263; May 27.
- Herbst, Philip J., Princeton, N. J., assignor to Radio Corporation of America. Electronic computing system. 2,429,227; Oct. 21.
- Herbst, Philip J., Princeton, N. J., assignor to Radio Corporation of America. Electronic computer. 2,429,228; Oct. 21.
- Herbst, Walter A., Union, N. J., assignor to Standard Oil Development Company. Stabilized xylidine. 2,422,484; June 17.
- Herbstreit, William G.: *See*—Johnson, Carl V., and Herbstreit.



- Herchenrider, Henry R., Mount Lebanon, Pa., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Abrasive belt swing grinder. 2,429,621; Oct. 28.
- Herck, John, New York, N. Y. Combination coin holder, date dial, and photo locket. 2,422,678; June 24.
- Hercules Electric & Manufacturing Co., Inc., assignee: *See*—
- Buchheim, Albert.
- Hercules Powder Company, assignee: *See*—
- Alexander, Harvey B.
- Anderson, Gilbert R.
- Anderson, Louis E., Jr. and Coolahan.
- Barwell, Allen C.
- Bennett, Thomas F.
- Bitting, Charles D., and Lawrence.
- Borglin, Joseph N.
- Borglin, Joseph N., and Rummelsburg.
- Bosko, Paul.
- Botts, Henry W.
- Cairns, Robert W.
- Cameron, Daniel D.
- Carpenter, Paul G.
- Counterman, Lewis B.
- Cox, Richard F. B.
- Elliott, Herschel A.
- Ender, Clarence D.
- Harris, George C.
- Lefren, Edward K.
- Lister, Donald A.
- Lundblad, Oscar W.
- Mosher, Paul R.
- Reese, John E.
- Rummelsburg, Alfred L.
- Scherrer, George H.
- Smith, William F.
- Trowell, William W.
- Wendt, Edward J.
- Heresite & Chemical Company, assignee: *See*—
- Hempel, Charles H., and Ploederl.
- Herkenhoff, Earl C., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Froth flotation of silica from iron ore by anionic collectors. 2,423,022; June 24.
- Hering, Donald, Long Beach, Calif., assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa. Tool orienting method and apparatus. 2,425,319; Aug. 12.
- Herkenhoff, Earl C.: *See*—
- Booth, Robert B., and Herkenhoff.
- Herkenhoff, Earl C., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Agglomeration by sulfonated reagents in magnetic recovery of iron ores. 2,423,314; July 1.
- Herkner, Edward C., Littleton, Colo. Mounting for telescope sights. 2,427,784; Sept. 23.
- Herlihy, William F., Haverhill, Mass. Shoe quarter moulding apparatus. 2,424,888; July 29.
- Herlocker, Robert D., Hammond, M. P. Kleinholz, East Chicago, Ind., and F. M. Watkins, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y. Lubricant. 2,413,972; Jan. 7.
- Herman, Carl L.: *See*—
- Burton, Reed H., Herman, and De Otto.
- Herman, Edward O., Mill Valley, Calif. Cargo brace. 2,425,875; Aug. 19.
- Herman, Harold M., Steger, III. Paper moistening dispenser. 2,424,565; July 29.
- Herman, Isidor J., and A. D. Davis, Montreal, Quebec, Canada. Producing mock patch pocket. 2,423,558; July 8.
- Herman, John: *See*—
- Scafe, Eugene T., and Herman.
- Herman, Lester C.: *See*—
- Craig, Palmer H., and Herman.
- Hermann, Benjamin R., Lanesborough, Mass., assignor to General Electric Company. Electric circuit interrupter. 2,433,666; Dec. 30.
- Hermann, Martin, Lakewood, Ohio. Dispensing valve for squeeze tube containers. 2,418,348; Apr. 1.
- Hermanns, Otto E., Akron, and E. Herzog, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Molding apparatus. 2,414,948; Jan. 28.
- Hermanson, Henning S.: *See*—
- Borse, Felix W., and Hermanson.
- Hermes, Morton, Los Angeles, Calif. Detachable shirt cuff. 2,428,158; Sept. 30.
- Hermo, Carl E., Quincy, and W. H. Haupt, Portland, Oreg. Vehicle-mounted distillation apparatus for peppermint hay. 2,424,824; July 29.
- Hermon, Lowell V., Berkeley, Calif. Visible card, photograph, and other filing sheets. 2,421,503; June 3.
- Hero Mfg. Co., Inc., assignee: *See*—
- Lobl, Otto.
- Herold, Edgar M. D.: *See*—
- Fields, Williams R., and Herold.
- Herold, Pete J., San Francisco, Calif. Hand motor. 2,421,455; June 3.
- Herold, Pete J., San Francisco, Calif. Target throwing machine. 2,432,155; Dec. 9.
- Herold, Robert E., assignor to The Weatherhead Company, Cleveland, Ohio. Tube coupling. 2,420,778; May 20.
- Herold, Robert E., assignor to The Weatherhead Company, Cleveland, Ohio. Locking tube fitting. 2,428,077; Sept. 30.
- Herold, Walter F., Easton, assignor to The Bassick Company, Bridgeport, Conn. Industrial truck. 2,421,328; May 27.
- Herold, Walter F., Easton, assignor to The Bassick Company, Bridgeport, Conn. Tilting chair. 2,424,753; July 29.
- Heron, Amedee A. C., Paris, France, assignor to International Standard Electric Corporation, New York, N. Y. Electrical signaling system. 2,424,566; July 29.
- Heron, William E., Detroit, Mich. Tobacco smoking pipe. 2,415,883; Feb. 18.
- Heron, William E., Detroit, Mich. Pipe cleaner. 2,418,711; Apr. 8.
- Herondelle, Guy L. M., Lyon, France, assignor to International Standard Electric Corporation, New York, N. Y. Gyroscope. 2,426,213; Aug. 26.
- Herr, Vincent A., Collinsville, Ill. Detachable handle. 2,424,094; July 15.
- Herrick, Roswell H., Oak Park, Ill., assignor to Automatic Electric Laboratories Inc. Transmission system. Re. 22,897; July 15.
- Herrick, Roswell H., Oak Park, Ill., assignor to Automatic Electric Laboratories, Inc. Transmission system. 2,428,520; Oct. 7.
- Herrick, Roswell H., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Intercommunicating system. 2,425,187; Aug. 5.
- Herrick, Walter: *See*—
- Borden, George C., and Herrick.
- Herring, John B., Covington, Ky. Toolholder. 2,425,242; Aug. 5.
- Herring, Wayland F., Hammond, Ind. Support for office appliances. 2,415,820; Feb. 18.
- Herrmann, Arthur L., Detroit, Mich. Closure panel and strip therefor. 2,432,889; Dec. 16.
- Herrmann, Dorothy, assignee, et al.: *See*—
- Herrmann, Dorothy.
- Herrmann, Dorothy, and F. L. Haley, New York; assignors of one-half to said D. Herrmann, and one-half to E. Herrmann, Great Neck, N. Y. Epilator. 2,425,696; Aug. 12.
- Herrmann, Ernest, assignee, et al.: *See*—
- Herrmann, Dorothy, and Haley.
- Herro, James M.: *See*—
- Skwierawski, Arthur H.
- Hersberger, Arthur B., Drexel Hill, and R. G. Heiligmann, Yendon, assignors to The Atlantic Refining Company, Philadelphia, Pa. Production of unsaturated dimers of alpha alkyl styrenes. 2,429,719; Oct. 28.
- Hersberger, Arthur B., Drexel Hills, and F. C. Gzinski, assignors to The Atlantic Refining Company, Philadelphia, Pa. Increasing adhesivity of bitumens for mineral aggregates. 2,430,815; Nov. 11.
- Herschede, Walter J., Cincinnati, W. F. Herschede, Forestville, and W. N. Woodruff, Cincinnati, Ohio, assignors to International Vehicular Parking, Ltd. Pendulum escapement coin-controlled parking meter. 2,433,453; Dec. 30.
- Herschede, William F.: *See*—
- Herschede, Walter J. and W. F., and Woodruff.
- Hersch-Razel Research Foundation, The, assignee: *See*—
- Strickler, Albert.
- Hersey, Ralph E., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,413,708; Jan. 7.
- Hersey, Ralph E., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Impulse transmitter. 2,416,692; Mar. 4.
- Hersey, Ralph E., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Alternate route telephone switching mechanism. 2,431,692; Dec. 2.
- Hersey, Ralph E., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone dial finger hole masking means. 2,433,366; Dec. 30.
- Hersh, Herman I., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Furfuryl alcohol reaction methods and products. 2,432,890; Dec. 16.
- Hersh, Joseph M.: *See*—
- Lincoln, Bert H., and Hersh.
- Hershberger, Albert, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyvinyl butyral-resorcinol-formaldehyde adhesive. 2,430,053; Nov. 4.
- Hershberger, Albert, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Laminated fuel tank. 2,430,931; Nov. 18.
- Hershberger, William D., Princeton, N. J., assignor to Radio Corporation of America. Switching in wave guide transmission system. 2,415,242; Feb. 4.
- Hershberger, William D., Princeton, N. J., assignor to Radio Corporation of America. Absorptive gas microwave measuring system. 2,423,383; July 1.
- Hershberger, William D., Princeton, N. J., assignor to Radio Corporation of America. Radio air navigation indicator. 2,430,292; Nov. 4.
- Hershberger, William D., Collingswood, N. J., assignor to Radio Corporation of America. Obstacle detection by radio wave. 2,423,025; June 24.
- Hershberger, William D., Haddonfield, N. J., assignor to Radio Corporation of America. Radio pulse altimeter and object detector. 2,423,024; June 24.



- Hershberger, William D., Haddonfield, N. J., assignor to Radio Corporation of America. Antenna system. 2,430,568; Nov. 11.
- Hershberger, William D., Haddonfield, N. J., assignor to Radio Corporation of America. Timing wave device. 2,432,196; Dec. 9.
- Hershberger, William D., Haddonfield, N. J., assignor to Radio Corporation of America. Radio pulse generator. 2,433,758; Dec. 30.
- Hershey, Naaman G., Manheim, Pa. Transplanter. 2,422,832; June 24.
- Hershowitz, Ellis H., Washington, D. C. Draft coupling. 2,426,099; Aug. 19.
- Herst, Abraham, Oakland, Calif. Rake. 2,413,827; Jan. 7.
- Herter, Charles H., New York, N. Y. Transparent thermal insulation. 2,420,879; May 20.
- Hervey, Laurence R. B., Concord, Mass., assignor to Arthur D. Little, Inc. Silicon containing resins and producing same. 2,432,891; Dec. 16.
- Herwig, George H., Benton Harbor, Mich. Packing device having fastener means for facilitating the formation of attractive display layers. 2,421,264; May 27.
- Herz Manufacturing Corporation, assignee: *See*—Conti, Eugene.
- Herzberg, Harry: *See*—Wankel, Bernhard, Jr., and Herzberg.
- Herzogh, Frank, Shaker Heights, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire bead lock. 2,419,075; Apr. 15.
- Herzog, Carl, Belleville, N. J. Apparatus for producing cold cathode fluorescent lamps or the like. 2,417,361; Mar. 11.
- Herzog, Carl, Belleville, N. J. Cold cathode fluorescent lamp. 2,433,218; Dec. 23.
- Herzog, Edward: *See*—Hermanns, Otto E., and Herzog.
- Herzog, Gerhard: *See*—Wolf, Alexander, and Herzog.
- Herzog, Gerhard, Houston, Tex., assignor to The Texas Company, New York, N. Y. Device for measuring wall thickness. 2,425,533; Aug. 12.
- Herzog, Gerhard, Houston, Tex., assignor to The Texas Company, New York, N. Y. Well logging apparatus. 2,433,554; Dec. 30.
- Herzog Iron Works, Inc., assignee: *See*—Kuettel, John J.
- Hesler, James C.: *See*—Behrman, Abraham S., Gustafson, and Hesler.
- Hesler, James C., and A. S. Behrman, assignors to Inflico, Incorporated, Chicago, Ill. Preparation of acids. 2,415,558; Feb. 11.
- Hess, Alexander McD., Jamaica, N. Y. Means for forming pleats. 2,422,963; June 24.
- Hess, Dr., & Clark, Inc., assignee: *See*—Guthrie, James E.
- Hess, Dudley, Woodside, N. Y. Hatch cover. 2,423,384; July 1.
- Hess, Francis M., Chicago, Ill. Collar and necktie supporter. 2,414,693; Jan. 21.
- Hess, Marvin A., East Lansdowne, Pa. File cutting machine. 2,415,559; Feb. 11.
- Hess, William F., Providence, R. I. Flexible chain. 2,428,219; Sept. 30.
- Hess, Willis C., assignor to Trico Products Corporation, Buffalo, N. Y. Piston rod actuated valve for fluid motors of the expansible chamber type. 2,433,759; Dec. 30.
- Hesse, Henry R., Hempstead, N. Y., assignor to Sperry Gyroscope Company, Inc. Electrical switch device. 2,432,476; Dec. 9.
- Hessenauer, James L.: *See*—Broseker, Roland H., and Hessenauer.
- Hesson, Charles M., Hanover, Pa., assignor to Chisholm-Ryder Company, Inc., Niagara Falls, N. Y. Can arranging conveyor mechanism. 2,417,753; Mar. 18.
- Hester, Dwight, Chicago, Ill. Flocking apparatus. 2,419,835; Apr. 29.
- Hester, Frank A.: *See*—Olson, Harry F., and Hester.
- Hester, William F., Drexel Hill, and W. E. Craig, Philadelphia, assignors to Rohm & Haas Company, Philadelphia, Pa. P-nitrophenyl dichloroisobutyl ether. 2,425,534; Aug. 12.
- Heston, Eugene E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Protective covering for preventing accumulation of ice on airfoils. 2,418,174; Apr. 1.
- Hetherington, Harry C., Charleston, W. Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Inhibiting taste and odor in glycollic acid. 2,419,137; Apr. 15.
- Hetherington, Robert, Sharon Hill, Pa., assignor to Robert Hetherington & Son, Inc., Wilmington, Del. Snap switch. 2,420,880; May 20.
- Hetherington, Robert & Son, Inc., assignee: *See*—Hetherington, Robert.
- Schellman, Joseph H.
- Hettelsater, Henry C., assignor to Harnischfeger Corporation, Milwaukee, Wis. Ambulant soil treating apparatus. 2,424,459; July 22.
- Hettelsater, Henry C., Whitefish Bay, assignor to Harnischfeger Corporation, Milwaukee, Wis. Intercepting rotor construction. 2,424,460; July 22.
- Hettick, George R.: *See*—Leonard, Ansel B., and Hettick.
- McKenna, George E., and Hettick.
- Hettinga, Ralph M., Kalamazoo, Mich. Control. 2,427,103; Sept. 9.
- Hettrick Manufacturing Company, The, assignee: *See*—Smith, William I.
- Hetzel, Stanford J.: *See*—Kennedy, Robert M., and Hetzel.
- Heuberger, Josef F., Stockholm, Sweden. Iron-graphite contact. 2,416,830; Mar. 4.
- Heuer, Lawrence H., assignor to Falls Spring & Wire Company, Detroit, Mich., and Great Lakes Spring Corporation, Chicago, Ill. Liner for upholstered spring units. 2,430,612; Nov. 11.
- Heurman, Henry H., Winter Haven, Fla. Vehicle tow bar. 2,417,871; Mar. 25.
- Heumann, Gerhart W., Schenectady, N. Y., assignor to General Electric Company. Single limit switch reversing control. 2,432,313; Dec. 9.
- Heuse, Ralph O.: *See*—Stryker, Harvey I., and Heuse.
- Heuser, Leon J.: *See*—Knapp, William A., and Heuser.
- Hewes, Charles K., assignor to Richfield Oil Corporation, Los Angeles, Calif. Insecticidal oil spray. 2,426,214; Aug. 26.
- Hewes, James E., Dundalk, Md. Rivet bucking bar. 2,417,490; Mar. 18.
- Hewes, Ralph W.: *See*—Field, Oscar S., and Hewes.
- Hewett, Philip S., Royal Oak, assignor to Reichhold Chemicals, Inc., Detroit, Mich. Producing urea-formaldehyde resins. 2,428,752; Oct. 7.
- Hewitt, Ellis E., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 2,429,687; Oct. 28.
- Hewitt, Ellis E., Edgewood, R. J. Bush, Jeannette, and W. H. Glass, Wilkinsburg, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Air compressor apparatus. 2,417,197; Mar. 11.
- Hewitt, Frank C., Northampton, Mass., assignor, by mesne assignments, to The Aspinook Corporation, Jewett City, Conn. Decoration of fabric in multicolor relief. 2,416,997; Mar. 4.
- Hewitt, Frank C., Northampton, and C. R. Cayen, Easthampton, Mass., assignors, by mesne assignments, to The Aspinook Corporation, Jewett City, Conn. Cellulose solution and making the same. 2,416,998; Mar. 4.
- Hewitt Rubber Corporation, assignee: *See*—Blanchard, Francis W.
- Hewitt, William H., Jr., Flushing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ultra high frequency detector. 2,432,097; Dec. 9.
- Hewlett, Amiot P., Cranford, and H. C. Paulsen, Elizabeth, N. J., assignors to Standard Oil Development Company. Regenerating spent caustic alkali solution. 2,428,623; Oct. 7.
- Hewlett-Packard Company, assignee: *See*—Bauer, L. Brunton.
- Heyden Chemical Corporation, assignee: *See*—Feibelman, Richard.
- Potras, Herman A., and Snow.
- Potras, Herman A., Snow, and De Lorenzo.
- Sokol, Herman.
- Heyer, Benjamin F. W., Tenafly, assignor to J. J. McDonough, trustee, Newark, N. J. Battery charging thermostat. Re. 22,883; May 27.
- Heyer, Don, Los Angeles, Calif. Geared pulley. 2,413,763; Jan. 7.
- Heyer, Don, Los Angeles, Calif. Unitary variable ratio mechanism. 2,422,196; June 17.
- Heyer, Frederic K., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Combination lock. 2,424,396; July 22.
- Heygel, Paul R., Asheville, N. C., assignor to Ecusta Paper Corporation. Combination ribbing and slitting machine. 2,414,739; Jan. 21.
- Heyl, Edward B., New York, N. Y. Fuel tank and gauge selector. 2,417,362; Mar. 11.
- Heyman Manufacturing Company, assignee: *See*—Klumpp, Ferdinand, Jr.
- Heyman, Wilbert A., assignor to Baker Importing Company, New York, N. Y. Making coffee concentrates. 2,432,759; Dec. 16.
- Heymann, Seymour E., assignor to Stewart-Warner Corporation, Chicago, Ill. Altitude compensated internal combustion air heater. 2,418,712; Apr. 8.
- Heymann, Seymour E., assignor to Stewart-Warner Corporation, Chicago, Ill. Fuel feeding system with combined valve and air vent. 2,424,754; July 29.
- Heymann, Seymour E., assignor to Stewart-Warner Corporation, Chicago, Ill. Heater system. 2,428,078; Sept. 30.
- Heymann, Seymour E., assignor to Stewart-Warner Corporation, Chicago, Ill. Lightweight aircraft heater with muffler. 2,429,514; Oct. 21.
- Heyroth, Albert H., assignor to The Carborundum Company, Niagara Falls, N. Y. Silicon carbide articles and making same. 2,431,326; Nov. 25.
- Heywood Compressor Company Limited, The, assignee: *See*—Hunt, Joseph A., and Moreillon.



- Heywood, Vincent E.: *See*—  
Lamb, Charles M., Jr., Wyman, and Heywood.
- Hibbard, Frank K., Detroit, Mich. Artificial hand and control mechanism. 2,425,154; Aug. 5.
- Hibbard, Lloyd J., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system. 2,417,754; Mar. 18.
- Hibbard, Lloyd J., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Plural series alternating current motor control system. 2,417,755; Mar. 18.
- Hibbard, Robert L., Bellevue, assignor of one-half to W. K. Stamets, Mars, Pa., S. C. Hibbard, R. L. Hibbard, Jr., and H. M. Junkin, executors of said Robert L. Hibbard, deceased. Lathes. 2,422,964; June 24.
- Hibbard, Robert L., Jr., executor, assignee, et al.: *See*—Hibbard, Robert L.
- Hibbard, Stewart C., executor, assignee, et al.: *See*—Hibbard, Robert L.
- Hibner, De Los E., and F. C. Arey, Du Bois, Pa., assignors to Vulcan Soot Blower Corporation. Leak reducer for joints between relatively rotatable conduits. 2,421,939; June 10.
- Hibner, De Los E., and F. C. Arey, Du Bois, Pa., assignors to Vulcan Soot Blower Corporation. Power driven soot blower. 2,421,940; June 10.
- Hibner, De Los E., and F. C. Arey, Du Bois, Pa., assignors to Vulcan Soot Blower Corporation. Valve mechanism for soot blowers. 2,421,941; June 10.
- Hibshman, Henry J., Plainfield, N. J., assignor to Standard Oil Development Company. Separation of normal paraffins from isoparaffins by means of activated cocoanut charcoal. 2,425,535; Aug. 12.
- Hibshman, Henry J., Plainfield, and I. P. Jones, Basking Ridge, N. J., assignors to Standard Oil Development Company. Sulfuric acid olefin absorption. 2,428,668; Oct. 7.
- Hickey, James, Portland, Oreg. Buttonhole attachment for sewing machines. 2,432,992; Dec. 23.
- Hickey, Richard J.: *See*—  
Fulmer, Ellis I., Underkofler, and Hickey.
- Hickey, Richard J., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Production of riboflavin by butyl alcohol producing bacteria. 2,425,280; Aug. 5.
- Hickman, Charles E., Adrian, assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Refrigeration apparatus and making same. 2,415,243; Feb. 4.
- Hickman, Clarence N., Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. High-speed camera. 2,417,076; Mar. 11.
- Hickok, Leon A., Johnson City, N. Y., assignor to United Shoe Machinery Corporation, Flemington, N. J. Wind-up machine. 2,430,507; Nov. 11.
- Hickok Manufacturing Company, Inc., assignee: *See*—Miller, Edward F.
- Hickok, Robert D., Bratenahl, Ohio, assignor to Cleveland Patents, Incorporated. Indicating dial for photo-electric light meters. 2,421,504; June 3.
- Hickok, Robert D., Bratenahl, Ohio, assignor to Cleveland Patents, Incorporated. Light acceptance aperture for light meters. 2,427,528; Sept. 16.
- Hickok, Robert D., Bratenahl, Ohio, assignor to Cleveland Patents, Incorporated. Balancing member for the moving element of an indicating instrument. 2,429,757; Oct. 28.
- Hickok, Robert D., Bratenahl, and L. D. Montgomery, Shaker Heights, assignors to Cleveland Patents, Incorporated, Cleveland, Ohio. Meter pivot. 2,427,529; Sept. 16.
- Hicks, Albertson, Miami, Fla. Counterbalance for ramps and like pivoted members. 2,416,753; Mar. 4.
- Hicks, James R., assignor to The Bristol Company, Waterbury, Conn. Motion-transmitting means. 2,426,930; Sept. 2.
- Hicks, Lester M., assignor to Eastman Kodak Company, Rochester, N. Y. Thermoplastic synthetic resin optical lap. 2,426,215; Aug. 26.
- Hicks, Nell S., Atlanta, Ga. Curtain. 2,420,479; May 13.
- Hicks, Richard J., San Augustine, Tex. Surgical cutter guard. 2,429,356; Oct. 21.
- Hickson, Louis A., Philadelphia, Pa. Fishing rig or leader. 2,430,115; Nov. 4.
- Hickson, Vincent C., assignee: *See*—Grove, Donald E.
- Hieger, Robert H., Detroit, Mich., assignor to G. M. and E. Holley, Decelerator. 2,415,491; Feb. 11.
- Hiergesell, Frank O. V., Philadelphia, Pa. Guarded fire alarm thermostat. 2,421,942; June 10.
- Hieronimus, John W.: *See*—  
Monroe, Rollo O., and Hieronimus.
- Hietala, William, Maple, Wis. Automatic weedless fish lure. 2,415,633; Feb. 11.
- Higbee, Glenn A., Detroit, Mich. Listing attachment for telephones. 2,414,597; Jan. 21.
- Higbee, Glenn A., Detroit, Mich. Drawer attachment for telephones. 2,432,760; Dec. 16.
- Higby, Charles D., Sr., assignor of one-half to H. V. Howard, Arkansas City, Kans. Clothes closet hanger. 2,433,275; Dec. 23.
- Higby, Ralph H., Ontario, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Recovery of flavanone glycosides. 2,421,061; May 27.
- Higby, Ralph H., Ontario, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Recovery of naringin. 2,421,062; May 27.
- Higginbotham, Beverly M., Kenmore, N. Y., assignor to The Linde Air Products Company. Ignition catalyst treatment and apparatus. 2,418,175; Apr. 1.
- Higgins, Andrew J., assignor to Higgins, Incorporated, New Orleans, La. Toggle clamp for demountable freight compartments. 2,427,603; Sept. 16.
- Higgins, Harry F., Baltimore, Md. Festoon ring bracket. 2,431,934; Dec. 2.
- Higgins, Incorporated, assignee: *See*—  
Higgins, Andrew J.
- Higgins, John L., Chicago, Ill. Pneumatic conveyer. 2,414,150; Jan. 14.
- Higgins, Louis W.: *See*—  
Robertson, William, and Higgins.
- Higgins, Waldo W., Whitefish Bay, assignor to A. O. Smith Corporation, Milwaukee, Wis. Enameled insulator bushing. 2,428,456; Oct. 7.
- Higgins, William H. C., West Orange, and C. A. Warren, Watchung, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Directional radio antenna lobe switching system. 2,424,982; Aug. 5.
- Higgs, Bryant H., Salt Lake City, Utah, assignor to The Linde Air Products Company. Thermally forming a cavity in a body of mineral material. 2,428,688; Sept. 2.
- Highberg, Axel L.: *See*—  
Willgoos, Andrew V. D., and Highberg.
- Highhill, Charles A., assignor to The Dow Chemical Company, Midland, Mich. Making alkali metal sulfides. 2,414,042; Jan. 7.
- Hight, Stuart C., South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Aperiodic pulse timing system. 2,426,216; Aug. 26.
- Highway Trailer Company, assignee: *See*—  
Stephen, James.
- Higley, Frank R., Shaker Heights, assignor to The Bryant Heater Company, Cleveland, Ohio. Rivet with fluid expander therein. 2,415,560; Feb. 11.
- Higley, Frank R., Cleveland Heights, assignor to The Bryant Heater Company, Cleveland, Ohio. Thermally responsive device. 2,420,078; May 6.
- Hilkemeier, Louis G., assignor to Chain Belt Company, Milwaukee, Wis. Water supply system for concrete mixers. 2,427,499; Sept. 16.
- Hilker, Harrison F.: *See*—  
Thurston, Paul L., Hilker, and Welker.
- Hilker, Harrison F., and H. Welker, Martinsburg, W. Va., assignors to Interwoven Stocking Company, New Brunswick, N. J. Knitting machine and method. 2,424,033; July 15.
- Hill, Arthur J.: *See*—  
Holmes, Roger G., and Hill.  
Parker, Robert P., and Hill.
- Hill, Arthur M., E. J. Miller, and E. G. Baker, assignors to Stanolind Pipe Line Company, Tulsa, Okla. Method and apparatus for salvaging pipe lines. 2,425,373; Aug. 12.
- Hill, C. V., & Company, Inc., assignee: *See*—  
Hoffman, Cyrus F.  
MacMaster, Malcolm D.  
Morris, Harry A.
- Hill, Carl H., Norristown, and H. I. Schneider, assignors to The Budd Company, Philadelphia, Pa. Heat-treating basket. 2,420,428; May 13.
- Hill, Charles F., Edgewood, and N. C. Foster, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Applying insulation. 2,414,525; Jan. 21.
- Hill, Charles L., Sioux Falls, S. Dak. Cultivator fender. 2,417,597; Mar. 18.
- Hill, Donald C.: *See*—  
Berrayarza, Oswaldo, and Hill.
- Hill, Ebenezer, Stamford, Conn. Navigational calculating instrument. 2,418,933; Apr. 15.
- Hill, Edward W., Takoma Park, Md., assignor to American Telephone and Telegraph Company. Telephone traffic indicating apparatus. 2,421,943; June 10.
- Hill, Frank B.: *See*—  
Jackson, Thomas, and Hill.
- Hill, George B., assignor to Dain Manufacturing Co. of Iowa, Ottumwa, Iowa. Harvester. 2,431,477; Nov. 25.
- Hill, Henry C., Montclair, N. J., assignor to Wright Aeronautical Corporation. Automatic spark control. 2,427,407; Sept. 16.
- Hill, Hillary L., Chelmsford, assignor to A. S. Campbell Co. Inc., East Boston, Mass. Electric motor. 2,415,634; Feb. 11.
- Hill, Irving, Lawrence, Kans., assignor, by mesne assignments, to George W. Swift, Jr., Inc., Bordentown, N. J. Method and machine for making composite boards. Re. 22,842; Feb. 18.
- Hill, Lawrence R.: *See*—  
Atkinson, William B., Hill, and Barker.
- Hill, Lawrence R., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Supervisory system for temperature indicating systems. 2,428,568; Oct. 7.
- Hill, Lawrence R., and J. J. Keyes, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Insulating device. 2,431,250; Nov. 18.



- Hill, Mark L.: *See*—  
Smith, Herschel G., Cantrell, and Hill.  
Smith, Herschel G., and Hill.
- Hill, Olva E., Worcester, Mass., assignor to Norton Company. Grinding wheel truing apparatus. 2,415,010; Jan. 28.
- Hill, Ralph H., Flint, Mich. Six cycle engine. 2,420,136; May 6.
- Hill, Ralph M., Mountainside, N. J., assignor to Standard Oil Development Company. Production of xylidine and toluene. 2,422,485; June 17.
- Hill, Ralph M., Mountainside, N. J., assignor to Standard Oil Development Company. Simultaneously dehydrogenating naphthenes and hydrogenating olefins. 2,426,870; Sept. 2.
- Hill, Ralph M., Lancaster Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Packing and making the same. 2,424,567; July 29.
- Hill, Ralph M., and H. G. Codet, Mountainside, N. J., assignors to Standard Oil Development Company. Preparing a dimethyl butene from propylene. 2,417,872; Mar. 25.
- Hill, Raymond P., Wausau, Wis. Bleaching fibrous material. 2,431,478; Nov. 25.
- Hill, Robert H., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Servomotor. 2,426,505; Aug. 26.
- Hill, Robert H., assignor to himself and H. Hoffman, Elgin, Ill. Railway car moving apparatus. 2,432,156; Dec. 9.
- Hill, Robert H., and E. M. Claytor, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Motor control circuit. 2,415,170; Feb. 4.
- Hill, Stanley, Heston, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Electron discharge device and associated circuit. 2,417,551; Mar. 18.
- Hill, Thomas C., Parkville, assignor to The Glenn L. Martin Company, Middle River, Md. Universal fluid joint. 2,417,491; Mar. 18.
- Hill, Walter E., Streety, and T. D. G. Wintle, assignors to J. A. Crabtree & Co. Ltd., Walsall, England. Electric fuse box. 2,427,908; Sept. 23.
- Hill, William H.: *See*—  
Mitchell, John, Hill, and Gollmar.
- Hill, William H., Mount Lebanon, Pa., assignor, by mesne assignments, to Koppers Company, Inc. Production of thiocyanates. 2,424,983; Aug. 5.
- Hill, William H., Mount Lebanon, Pa., assignor, by mesne assignments, to Koppers Company, Inc. Cleaning and pickling of metals. 2,425,320; Aug. 12.
- Hilbom, Tor O., Karlshall, Lulea, Sweden. Press for the manufacture of fiber boards. 2,415,244; Feb. 4.
- Hillenbrand, George C., assignor to The Batesville Casket Company, Batesville, Ind. Casket locking means. 2,415,948; Feb. 18.
- Hillenbrand, George C., assignor to The Batesville Casket Company, Batesville, Ind. Casket locking and sealing means. 2,417,756; Mar. 18.
- Hillenbrand, Louis J., Allentown, Pa. Centrifuge device for thermometers. 2,424,166; July 15.
- Hiller, Fritz E.: *See*—  
Conrad, Albert G., and Hiller.
- Hiller, Siegfried, New York, N. Y. Apparatus for the production of comminuted particles. 2,422,099; June 10.
- Hilliard Corporation, The, assignee: *See*—  
LaBrecque, Theodore A.
- Schuckers, John M.
- Hilliard, Robert C., assignor to Sylvania Electric Products, Inc., Salem, Mass. Electric discharge tube. 2,433,813; Dec. 30.
- Hillier, James, Cranbury, N. J., assignor to Radio Corporation of America. Electron microscope specimen. 2,417,110; Mar. 11.
- Hillier, James, Cranbury, N. J., assignor to Radio Corporation of America. Electron probe analysis employing X-ray spectrography. 2,418,029; Mar. 25.
- Hillier, James, Cranbury, N. J., assignor to Radio Corporation of America. Electronic microanalyzer. 2,418,228; Apr. 1.
- Hillier, James, Cranbury, N. J., assignor to Radio Corporation of America. Specimen holder assembly. 2,421,696; June 3.
- Hillier, James, Cranbury, and R. F. Baker, Princeton, N. J., assignors to Radio Corporation of America. Correcting for distortion in electron lens systems. 2,418,349; Apr. 1.
- Hilliker, Frank T., St. Louis, Mo. Garbage disposal device. 2,421,064; May 27.
- Hillman, Ethel H., South Pasadena, Calif. Wearing apparel. 2,418,176; Apr. 1.
- Hillquist, Karl J., Seattle, Wash. Strip locking means for abrading and polishing machines. 2,424,167; July 15.
- Hills Bros. Coffee, Inc., assignee: *See*—  
Hills, Leslie W.  
Mulvany, Harry A.
- Hills, Harold G., Lakewood, assignor to The Wellman Engineering Company, Cleveland, Ohio. Retracting boom crane. 2,419,138; Apr. 15.
- Hills, Leslie W., assignor to Hills Bros. Coffee, Inc., San Francisco, Calif. Container construction. 2,416,693; Mar. 4.
- Hillyer, John C.: *See*—  
Schulze, Walter A., and Hillyer.
- Hilsinger, Harry A., Jr.: *See*—  
Aamodt, Thoralf, and Hilsinger.
- Hilstrom, Hollis R., Western Springs, Ill. Spring clamp receptacle for tumblers. 2,431,752; Dec. 2.
- Hiltabidel, Charles E., and D. M. Yoder, Barberton, Ohio. Fishing lure. 2,415,742; Feb. 11.
- Hilton, Albert, Mount Healthy, assignor to Sport Products, Incorporated, Cincinnati, Ohio. Boxing glove. 2,416,444; Feb. 25.
- Hilton, Grover C., Hutchinson, Kans. Article display device. 2,426,689; Sept. 2.
- Hilton, Harold L. and H. C., and H. L. Hargett, Norwood, Ohio; said Hargett assignor to said H. L. and H. C. Hilton. Bread dispensing device. 2,426,999; Sept. 9.
- Hilton, Henry C.: *See*—  
Hilton, Harold L. and H. C., and Hargett.
- Hilton, William, Seattle, Wash. Door stop. 2,419,449; Apr. 22.
- Hilton, William, Seattle, Wash. Burglar stop. 2,425,937; Aug. 19.
- Himmel, Leon, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Glide path system. 2,419,551; Apr. 29.
- Himmel, Leon, and M. Fuchs, New York, N. Y., assignors to Federal Telephone and Radio Corporation, Newark, N. J. Radio antenna. 2,419,552; Apr. 29.
- Himoff, Morris G., assignor to Morey Machinery Co., Inc., New York, N. Y. Lathe. 2,433,048; Dec. 23.
- Hinchcliffe, Sidney, Wylam-on-Tyne, England. Lifting and pulling mechanism. 2,417,492; Mar. 18.
- Hinckley-Myers Division of Kent-Moore Organization, Inc., assignee: *See*—  
Graham, George M.  
Holton, George E.
- Hindermann, Peter: *See*—  
Krebs, Adolf, Bossard, and Hindermann.
- Hindle, Thomas, Witton, Blackburn, England. Hydraulic shedding means. 2,425,676; Aug. 12.
- Hindle, Thomas, Blackburn, England. Hydraulic operating means for loom slays. 2,428,313; Sept. 30.
- Hindle, Thomas, Blackburn, England. Picking mechanism of looms for weaving. 2,431,642; Nov. 25.
- Hindle, Walter H.: *See*—  
Croft, Cyril M., and Hindle.
- Hindley, Nathan C.: *See*—  
Bergel, Franz, Hindley, Morrison, and Rinderknecht.
- Hindmarch, Thomas, London, S. W. 1, England. Power drive. 2,417,198; Mar. 11.
- Hindmarch, Thomas, London, England. Power transmission mechanism. 2,423,886; July 15.
- Hinds, Reinhard P. H., Petts Wood, England. Motor head lamp plastic casing. 2,417,162; Mar. 11.
- Hinds, William E., Hillsboro, Oreg. Syringe plunger seal. 2,419,401; Apr. 22.
- Hine, Sheldon H., U. S. Navy. Perspective projector and enlarger. 2,420,316; May 13.
- Hinegardner, Wilbie S., Niagara Falls, and N. D. Scott, Sanborn, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Fungicidal compositions. 2,425,677; Aug. 12.
- Hinegardner, Wilbie S., Niagara Falls, and J. F. Walker, Lewiston, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Fungicidal compositions. 2,425,678; Aug. 12.
- Hines, Claude M., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Linear speed indicator. 2,415,492; Feb. 11.
- Hines, Claude M., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Control apparatus. 2,428,457; Oct. 7.
- Hines, John, South Norwalk, Conn., assignor to Norwalk Lock Company, New York, N. Y. Door check bracket. 2,416,316; Feb. 25.
- Hines, John, South Norwalk, Conn., assignor to Norwalk Lock Company, New York, N. Y. Padlock. 2,419,213; Apr. 22.
- Hines, Thomas W., assignor to Atlantic Products Corporation, Trenton, N. J. Handbag. 2,428,159; Sept. 30.
- Hinger, Theodore R., Farmington, Mich. Dehumidifier. 2,420,707; May 20.
- Hingley, James W., Chester, Pa. Towing device. 2,416,921; Mar. 4.
- Hings, Donald L., Ottawa, Ontario, Canada, assignor to Electronic Laboratories, Inc., Indianapolis, Ind. Radio-frequency transmitter. 2,415,427; Feb. 11.
- Hings, Donald L., Ottawa, Ontario, Canada, assignor to Electronic Laboratories, Inc., Indianapolis, Ind. Radio transmitter amplifier. 2,416,831; Mar. 4.
- Hings, Donald L., Ottawa, Ontario, Canada, assignor to Electronic Laboratories, Inc., Indianapolis, Ind. Bipolar secondary battery with electrolyte absorbent. 2,429,515; Oct. 21.
- Hinkle, George A., New York, assignor to C. H. Bennington Mfg. Co., Inc., Hempstead, Long Island, N. Y. Artificial leg. Re. 22,903; Aug. 5.
- Hinman, Dorr J., Indianapolis, Ind., assignor to United States Rubber Company, New York, N. Y. Method and apparatus for manufacturing inner tubes. 2,423,147; July 1.
- Hinman, Walker M., Winnetka, assignor to The Frederick Post Company, Chicago, Ill. Tracing medium. 2,413,764; Jan. 7.



- Hipp, Ronald N.: *See*—  
Isenberg, Alexander H., and Hipp.
- Hipple, Irene B., Haverford, and S. S. Sadtler, White-marsh, Pa. Ice cream and ice cream mix. 2,433,276; Dec. 23.
- Hipple, James L., Canton, Ill., assignor to International Harvester Company. Tractor mounted planter. 2,417,931; Mar. 25.
- Hipple, James L., Canton, Ill., assignor to International Harvester Company. Material dispensing device having a roller with discharge controller. 2,424,168; July 15.
- Hipple, John A., Jr., Verona, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Mass spectrometer. 2,417,797; Mar. 18.
- Hirestra Laboratories, Inc., assignee: *See*—  
Rheinstrom, Robert I.
- Hirsch, Charles, South Bend, assignor to The American Foundry Equipment Company, Mishawaka, Ind. Cleaning machine. 2,418,934; Apr. 15.
- Hirsch, Harold, Buffalo, N. Y., assignor to Curtiss-Wright Corporation. Helicopter rotor pitch control mechanism. 2,418,030; Mar. 25.
- Hirsch, Harold, Buffalo, N. Y., assignor to Curtiss-Wright Corporation. Pitch control for rotor blades. 2,430,767; Nov. 11.
- Hirsch, Joel H., Oakmont, Pa., assignor to Foster Wheeler Corporation, New York, N. Y. Fluid catalytic conversion of hydrocarbon oils. 2,423,833; July 15.
- Hirsch, Joel H., East Orange, N. J., assignor to Foster Wheeler Corporation, New York, N. Y. Catalytic production of ethyl benzene. 2,429,622; Oct. 28.
- Hirsch, Louis M., and F. W. Carl, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Heat treatment of aluminum alloys. 2,413,765; Jan. 7.
- Hirsch, Robert L.: *See*—  
Large, Charles B., Zucrow, and Hirsch.
- Hirschberg, Charles A., Mountain Lakes, N. J. Tool retainer and aligner for percussive apparatus. 2,430,716; Nov. 11.
- Hirschland, Herbert E., Cranford, and S. Ricklin, Rahway, N. J., assignors to Metal & Thermit Corporation, New York, N. Y. Aluminothermic unit. 2,422,965; June 24.
- Hirschler, Carl J., New Malden, and W. G. Campbell, Aylesbury, England. Welding electrode coating composition. 2,427,966; Sept. 23.
- Hirsh, Samuel B., and V. Lobel, Chicago, Ill. Pillow or cushion accessory. 2,413,828; Jan. 7.
- Hirshstein, Joseph, Cleveland, Ohio. Interceptor with flow control. 2,414,949; Jan. 28.
- Hirst, Wallace: *See*—  
Bangham, Donald H., Bennett, Brown, Hirst, Pirani, and Jennings.
- Hirt, Rudolf: *See*—  
Martin, Henry, and Hirt.  
Martin, Henry, Zaeslin, Hirt, and Staub.
- Hi-Seal Corporation, assignee: *See*—  
Ross, Matthew.
- Hies, John M., Los Angeles, Calif. Stabilizing insert for shoes. 2,426,735; Sept. 2.
- Histed, George B., Rochester, N. Y. Greeting card. 2,417,982; Mar. 25.
- Hitchings, George H., Tuckahoe, and G. B. Elion, assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y. Dithiopyrimidines and preparing same. 2,415,793; Feb. 11.
- Hite, Joseph J., assignor to American Hoist & Derrick Co., St. Paul, Minn. Manually operated hoist. 2,417,199; Mar. 11.
- Hitt, Ira V., Wayneboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Free fall fiber. 2,416,390; Feb. 25.
- Hitt, Otis D., assignor to The Aero Equipment Corporation, Bryan, Ohio. Swinging hose guide. 2,422,353; June 17.
- Hitzemann, Edwin C., St. Paul, Minn. Outboard motor bracket. 2,429,551; Oct. 21.
- Hively, David W., Seattle, Wash. Saw set. 2,425,876; Aug. 19.
- Hixon, Arthur W., Leonia, N. J., and R. Miller, Woodside, Long Island, N. Y., assignors to The Chemical Foundation, Incorporated, as trustee. Pickling and recovering pickling agent. 2,423,385; July 1.
- Hixon, Charles R., Phoenixville, assignor to Wyeth Incorporated, Philadelphia, Pa. Fluid transfer apparatus. 2,416,391; Feb. 25.
- Hlavaty, Rudolph F., Cicero, Ill. Material handling. 2,428,709; Oct. 7.
- Hlavin, William S.: *See*—  
Sigmund, Frank J., and Hlavin.
- Hoag, Wilton F.: *See*—  
Sloan, Edward C., and Hoag.
- Hoague-Sprague Corporation, assignee: *See*—  
Knowlton, Cutler D., and Burke.
- Hoak, Clarence B., Steubenville, Ohio. Annealing furnace. 2,432,239; Dec. 9.
- Hoar, Roger S., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Wheeled scraper. 2,417,822; Mar. 25.
- Hoar, Thomas P., Cambridge, and E. L. James, Bulstrode, Gerrards Cross, assignors to African Sisal & Produce Company Limited, Bulstrode, England. Treatment of plant flesh and the recovery of pectic products therefrom. 2,416,176; Feb. 18.
- Hoback, Earl B.: *See*—  
Edson, Noel M., and Hoback.
- Hobart, Leo G., Los Angeles, Calif. Clamp. 2,430,677; Nov. 11.
- Hobbs, Leonard S., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Air cooling for radial engines. 2,426,871; Sept. 2.
- Hobbs, Leonard S., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Control automatically variable with altitude. 2,432,664; Dec. 16.
- Hobbs, Leonard S., and A. V. D. Willgoos, West Hartford, assignors to United Aircraft Corporation, East Hartford, Conn. Radial aircraft engine. 2,426,879; Sept. 2.
- Hobby, Harold E., assignor to Simplex Time Recorder Co., Gardner, Mass. Card time printing and punching recorder. 2,421,697; June 3.
- Hobelmann, Rudolph G., assignor to The Davison Chemical Corporation, Baltimore, Md. Dentifrice applicator. 2,419,896; Apr. 29.
- Hoberg, Edgar A., and R. T. Moore, assignors to Grand Metal Products Corporation, Portland, Oreg. Latching mechanism. 2,426,828; Sept. 2.
- Hobson, H. M., Limited, assignee: *See*—  
Maddox, Stanley V.  
Simpson, Thomas.  
Simpson, Thomas, Greenland, and Ramsay.  
Stokes, Philip H.
- Hobson, H. M., Limited, assignee, et al.: *See*—  
Stokes, Philip H., Greenland, and Pugh.
- Hobson, Oliver J., Redwood City, Calif. Ellipsograph. 2,415,283; Feb. 4.
- Hochberg, Seymour, Forest Hills, N. Y., assignor of one-half to V. K. LaMer, Leonia, N. J. Method and apparatus for making aerosols. 2,416,256; Feb. 18.
- Hochwalt, Carroll A., and C. A. Thomas, Dayton, Ohio, assignors to Monsanto Chemical Company. Plastic compositions containing a fatty acid ester of styrene glycol. 2,430,424; Nov. 4.
- Hockery, John C., assignee, trustee: *See*—  
McEntire, Kenneth R.
- Hockman, Robert O., and W. C. Reiman, Cincinnati, assignors to The Kroger Grocery & Baking Company, Hamilton County, Ohio. Apparatus for coating bananas. 2,429,130; Oct. 14.
- Hodge, Edward B., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Alkanolic acid esters of tris (hydroxymethyl) dimethylaminomethane. 2,433,609; Dec. 30.
- Hodge, Robert W., Lake Angelus, Mich. Work holding means. 2,430,613; Nov. 11.
- Hodges, Arthur J., Washington, D. C. Method of and apparatus for testing the hardness of materials. 2,430,876; Nov. 18.
- Hodgkins, Charles H., Fairfield, assignor to The Bryant Electric Company, Bridgeport, Conn. Lamp retaining means for fluorescent lamp sockets. 2,426,022; Aug. 19.
- Hodgson, Jack E., and E. V. Abel, Memphis, Tenn., assignors to Continental Can Company, Inc., New York, N. Y. Container for explosives. 2,425,472; Aug. 12.
- Hodgson, Joseph H.: *See*—  
Burdett, Philo H., and Hodgson.
- Hodnette, John K., Sharon, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Protective link. 2,424,314; July 22.
- Hodshon, Peter, Labaska, Pa. Liquid wax applicator device. 2,432,015; Dec. 2.
- Hodson, George F., Altus, Okla., and L. L. Campbell, Riverdale, Ill., assignors to Wilson & Company, Inc. Egg feeding device. 2,417,823; Mar. 25.
- Hoe, R., & Co., Inc., assignee: *See*—  
Horton, Albert J., and Eckhard.  
Horton, Albert J., and Wieking.  
Huck, William F.  
Wieking, William C.
- Hoerber, Barbara O. W., executrix, et al.: *See*—  
Hoerber, Harold.
- Hoerber, Harold, deceased, South Dartmouth, Mass.; B. O. W. Hoerber and W. T. Read, executors, assignors to Textile Research Co. Loom selvage needle. 2,420,952; May 20.
- Hoerber, Harold, deceased, South Dartmouth, Mass.; B. O. W. Hoerber and W. T. Read, executors, assignors to Textile Research Co. Picker stick check for looms. 2,423,887; July 15.
- Hoerber, Harold, deceased, South Dartmouth, Mass.; B. O. W. Hoerber and W. T. Read, executors, assignors to Textile Research Co. Adjustable protection rod for looms. 2,424,461; July 22.
- Hoerber, Harold, deceased, South Dartmouth, Mass.; B. O. W. Hoerber and W. T. Read, executors, assignors to Textile Research Co. Loom filling motion. 2,427,725; Sept. 23.
- Hoefling, Eugene, Polk County, near Salem, Oreg. Centrifuge for separating molten metals from slag. 2,415,210; Feb. 4.
- Hoehne, Jeannette, assignee: *See*—  
Craig, James A.
- Hoelscher, Arnold P., Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation. Lubricating and cooling compound for cold reducing mills. 2,430,400; Nov. 4.
- Hoelscher, William G., assignor to The American Tool Works Company, Cincinnati, Ohio. Lubrication of machine tools. 2,425,281; Aug. 5.



- Hoenecke, Walter J., Milwaukee, Wis. Concrete pump. 2,415,592; Feb. 11.
- Hoepfer, Herman B.: *See*—  
Sargeant, Walter E., and Hoepfer.
- Hoepfel, Raymond W., Arcadia, assignor to National Lead Company, Los Angeles, Calif. Treatment of well drilling fluids. 2,414,647; Jan. 21.
- Hoern, Joseph H., Birmingham, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Electric resistance welding head closures to hollow valve bodies. 2,432,761; Dec. 16.
- Hoern, Joseph H., Birmingham, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Hydraulic tappet. 2,432,762; Dec. 16.
- Hoewischer, Frederick W.: *See*—  
Woodberry, John H., and Hoewischer.
- Hoey, Raymond M., Chicago, Ill., assignor to The Kendall Company, Boston, Mass. Supporter garment. 2,424,462; July 22.
- Hofeldt, George J., Riverside, and C. W. Lofgren, Oak Park, Ill., assignors to Sanford Ink Company. Shipping and display box. 2,425,536; Aug. 12.
- Hoff, Earl M., Masury, Ohio. Nut removing tool. 2,417,757; Mar. 18.
- Hoff, John M., Idaho Falls, Idaho. Farm loader. 2,419,493; Apr. 22.
- Hoffer, Henry S., Vancouver, British Columbia, Canada, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Pump. 2,416,317; Feb. 25.
- Hoffer, Howard G., Santa Monica, Calif. Device for shaping lenses. 2,421,065; May 27.
- Hoffer, Howard G., Santa Monica, assignor to Tekson Inc., West Los Angeles, Calif. Injection mold. 2,424,235; July 22.
- Hoffer, James F., assignor to Ex-Cell-O Corporation, Detroit, Mich. Fuel injection nozzle. 2,421,329; May 27.
- Hoffer, James F., Detroit, assignor to Superdraulic Corporation, Dearborn, Mich. Pump structure. 2,431,175; Nov. 18.
- Hoffer, James F., Detroit, assignor to Superdraulic Corporation, Dearborn, Mich. Pump structure. 2,431,176; Nov. 18.
- Hoffer, Max: *See*—  
Wuest, Heinz M., and Hoffer.
- Hoffman, Allan C.: *See*—  
Dykeman, Rueben G., Shaw, and Hoffman.
- Hoffman, Allan C., assignor to United Aircraft Products, Inc., Dayton, Ohio. Oil temperature regulator. 2,433,454; Dec. 30.
- Hoffman, Allen S., assignor to Howard Sales Company, Council Bluffs, Iowa. Self-illuminated plastic plug-in alphabet blocks. 2,424,169; July 15.
- Hoffman, Charles: *See*—  
Russ, Walter R., Hoffman, Schweitzer, and Dalby.
- Hoffman, Cyrus F., assignor to C. V. Hill & Company, Inc., Trenton, N. J. Refrigerated display case. 2,425,473; Aug. 12.
- Hoffman, George F., New York, N. Y. Pivoted-jaw screw cap remover. 2,430,638; Nov. 11.
- Hoffman, Harold, assignee et al.: *See*—  
Hill, Robert H.
- Hoffman, John D., Chevy Chase, Md. Recovering alumina and hydrochloric acid. 2,413,709; Jan. 7.
- Hoffman, Louis, Duluth, Minn. Molded sadiron composition. 2,431,614; Nov. 25.
- Hoffman, Mathias L., Pottstown, Pa. Gauge for watch strap ends or the like. 2,415,821; Feb. 18.
- Hoffman, Otto, Portland, Oreg. Scouring device. 2,433,695; Dec. 30.
- Hoffman, Raymond A.: *See*—  
Hull, Richard O., and Hoffman.
- Hoffman, Raymond A., Euclid, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nickel electroplating composition. 2,427,280; Sept. 9.
- Hoffman, Robert J., Ballston Lake, N. Y., assignor to General Electric Company. Fluid pressure control device. 2,415,674; Feb. 11.
- Hoffman, Ross B., East Orange, assignor to Federal Telephone and Radio Corporation, Newark, N. J. Impulse producing oscillator. 2,418,121; Apr. 1.
- Hoffman, Ross B., East Orange, N. J., assignor to Federal Telephone and Radio Corporation. Distance and direction radio object detection. 2,424,984; Aug. 5.
- Hoffman, Stanley G.: *See*—  
Rickus, George M., Hoffman, and Archer.
- Hoffman, Walter H.: *See*—  
Weston, Arthur W., and Hoffman.
- Hoffman, William A., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Flameproofed film and process. 2,422,730; June 24.
- Hoffmann-La Roche Inc., assignee: *See*—  
Adler, Erich.  
Adler, Erich, Gie, and von Euler.  
Bergel, Franz, Cohen, Morrison, and Moss.  
Bergel, Franz, Hindley, Morrison, and Rinderknecht.  
Duschinsky, Robert.  
Flexser, Leo A.  
Goldberg, Moses W.  
Goldberg, Moses W., and Heineman.  
Karrer, Paul.  
Ofner, Alfred, and Surmatis.  
Schneider, Otto, Bourquin, and Grüssner.  
Spiegelberg, Hans.  
Surmatis, Joseph D., and Ofner.
- Hoffman-La Roche Inc., assignee: *See*—Continued  
Wenner, Wilhelm, and Plati.  
Wuest, Heinz M.  
Wuest, Heinz M., and Hoffer.  
Zentner, Margaret R.
- Hofheimer, H. Clay, II, assignee: *See*—  
Mallard, Logan L.
- Hofmann, Corris M.: *See*—  
Long, Robert S., and Hofmann.  
Parker, Robert P., and Hofmann.
- Hofmann, Klaus, assignor to Ciba Pharmaceutical Products, Incorporated, Summit, N. J. 2-substituted furan-3,4-dicarboxylic acids, their corresponding saturated analogues and derivatives thereof. 2,432,016; Dec. 2.
- Hogaboom, George B., New Britain, Conn., assignor to Hanson-Van Winkle-Munning Company, Matawan, N. J. Rapid zinc depositing bath. 2,421,265; May 27.
- Hogan, Charles A., Chicago Heights, Ill. Repairing open hearth furnace banks. 2,424,825; July 29.
- Hogan, John V. L., Forest Hills, and H. C. Ressler, Bay-side, Long Island, assignors to Faximile, Inc., New York, N. Y. Graphic privacy system. 2,414,101; Jan. 14.
- Hogberg, Carl G., Glenshaw, Pa., assignor to United States Steel Corporation of Delaware. Hot-blast stove. 2,420,373; May 13.
- Hogdal, Stig B., Danderyd, Sweden. Package. 2,422,899; June 24.
- Hogdal, Stig B., Danderyd, near Stockholm, Sweden. Package. 2,427,858; Sept. 23.
- Hogdon, Frank B., Naperville, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Dielectric materials. 2,426,609; Sept. 2.
- Hogg, Elsie C., Elizabeth, N. J. Multiple antiskid ribbed suction sole for shoes and rubber footwear. 2,424,463; July 22.
- Hogin, Philip E., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Assembling tool. 2,422,549; June 17.
- Hoglan, Forest A., Toledo, Ohio, assignor to International Minerals & Chemical Corporation, Chicago, Ill. Manufacture of glutamic acid. 2,433,219; Dec. 23.
- Hogquist, Bernard C., assignee: *See*—  
Meek, Melvin J.
- Hogue, James T., deceased, San Francisco; by L. M. Hogue, widow and sole owner, Fresno, Calif. Angle calculator for structural members. 2,421,882; June 10.
- Hogue, Lenna M., widow and sole owner: *See*—  
Hogue, James T.
- Rohl, John: *See*—  
Wheaton, Jack M., and Rohl.
- Hohmann, Richard K., Jamaica, N. Y., assignor to Sears, Roebuck and Co., Chicago, Ill. Bobbin holder positioning and extracting device. 2,420,536; May 13.
- Hohmann, Richard K., Jamaica, N. Y., assignor to White Sewing Machine Corporation, Cleveland, Ohio. Take-up mechanism. 2,420,538; May 13.
- Hohmann, Richard K., Jamaica, N. Y., assignor to Sears, Roebuck and Co., Chicago, Ill. Sewing machine. 2,430,932; Nov. 18.
- Hohwart, George, Orchard Lake, assignor to N. A. Woodworth Company, Ferndale, Mich. Screw-thread gage. 2,419,263; Apr. 22.
- Holberg, Arnold J., El Dorado, Ark., assignor to Lion Oil Company. Treating high-molecular-weight hydrocarbons. 2,421,421; June 3.
- Holer, Walter, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Index milling machine. 2,422,414; June 17.
- Hoinkis, William, Summit, and D. B. Perry, Maplewood, N. J., assignors to American Telephone and Telegraph Company. Visual indicator for teletypewriter line-test key. 2,425,803; Aug. 19.
- Hoisington, William F., Rye, N. Y., assignor to Federal Telephone and Radio Corporation. Direction and distance indicating system. 2,426,217; Aug. 26.
- Hoisington, William F., Rye, N. Y., assignor to Federal Telephone and Radio Corporation. Pulse distance measuring system. 2,429,623; Oct. 28.
- Holabird, William S., Hamilton, Ind. Furniture construction. 2,428,877; Oct. 14.
- Holan, James H., Jr., Rocky River, and H. J. Troche, Cleveland Heights, assignors to The American Coach & Body Company, Cleveland, Ohio. Body for utility trucks. 2,426,772; Sept. 2.
- Holanbek, Gust J., and W. L. Haines, Los Angeles, Calif. Emergency lock release. 2,427,281; Sept. 9.
- Holbert, James M.: *See*—  
Krantz, John C., Jr., and Holbert.
- Holbrook, Frederic L.: *See*—  
Sterrett, Robert R., and Holbrook.
- Holbrook, John K., assignor to Holbrook Microfilming Service Inc., New York, N. Y. Document operated switch for photographic copying cameras. 2,419,836; Apr. 29.
- Holbrook, John K., assignor to Holbrook Microfilming Service Inc., New York, N. Y. Document copying camera. 2,422,354; June 17.
- Holbrook, John S.: *See*—  
Straubel, Clarence W., and Holbrook.
- Holbrook Microfilming Service Inc., assignee: *See*—  
Holbrook, John K.



- Holcomb, Walter F.: *See*—  
Burckhalter, Joseph H., Jones, Rawlins, Tendick, and Holcomb.  
Burckhalter, Joseph H., Rawlins, Tendick, Jones, and Holcomb.
- Holden, Artemas F., assignee: *See*—  
Solakian, Haig, and Vincent.
- Holden, Artemas F., New Haven, Conn. Salt bath furnace. 2,415,493; Feb. 11.
- Holden, Artemas F., New Haven, Conn. Hollow electrode for salt bath furnaces. 2,415,494; Feb. 11.
- Holden, Artemas F., New Haven, Conn. Rectifier for chloride salt baths. 2,431,479; Nov. 25.
- Holden, Artemas F., Northford, Conn. Tempering process for steel objects. 2,426,773; Sept. 2.
- Holden, Warwick C., and J. C. Naylor, Monkseaton, assignors to Vickers-Armstrongs Limited, London, England. Hydraulic pump or motor of the radial cylinder type. 2,426,100; Aug. 19.
- Holden, William H. T.: *See*—  
Albert, Walter P., Davis, Gumley, and Holden.
- Holden, William H. T., Woodside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telemetric summation system. 2,428,800; Oct. 14.
- Holden, William H. T., Woodside, and E. R. Morton, Brooklyn, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Direct-current generator. 2,418,471; Apr. 8.
- Holder, Clinton H., Cranford, N. J., assignor to Standard Oil Development Company. Dehydrogenating butene. 2,428,624; Oct. 7.
- Holder, Edward P., Montclair, N. J., assignor to Wickwire Spencer Steel Company, New York, N. Y. Barrel hoop. 2,418,260; Apr. 1.
- Holderle, Carl L.: *See*—  
Holderle, Frederick W. and C. L.
- Holderle, Frederick W. and C. L., Rochester, N. Y. Combustion tube heater for cooking containers. 2,431,753; Dec. 2.
- Hold Stitch Fabric Machine Company, assignee: *See*—  
Minton, Clarence W.
- Holestine, Mabel, Kirkwood, Mo. Movable doll eyes. 2,416,689; Feb. 11.
- Holfelder, August A., Essex, N. J., assignor to Curtiss-Wright Corporation. Removing embedded material. 2,415,690; Feb. 11.
- Holihan, Irving T., Waterbury, Conn., assignor to Scovill Manufacturing Company. Cooling unit. 2,419,234; Apr. 22.
- Holk, Melville J.: *See*—  
Kramsky, Irwin, and Holk.
- Holister, Arthur T. and F. O., Los Angeles, Calif. Grinding machine for coil springs. 2,418,770; Apr. 8.
- Holister, Frank O.: *See*—  
Holister, Arthur T. and F. O.
- Holkesvig, Orlando A.: *See*—  
Bingham, Herberg, and Holkesvig.
- Holl, Charles, New York, N. Y. Mounting for finger rings. 2,430,508; Nov. 11.
- Holland, John D., and D. D. Robinson, London, W. C. 2, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Testing apparatus for radio alarm systems. 2,429,624; Oct. 28.
- Hollenbeck, Eugene G., Utica, N. Y. Animal trap. 2,416,481; Feb. 25.
- Holler, Hermann, Frankfort-on-the-Maine, and O. Mues, Georgsmarienhutte, near Osnabruck, Germany; vested in the Attorney General of the United States. Generation of acetylene from calcium carbide and water. 2,422,623; June 17.
- Holler, Walker W.: *See*—  
Panter, Carl, Borden, Christensen, and Holler.
- Hollerith, Charles, Jackson, Mich., assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio. Brake structure. 2,423,315; July 1.
- Hollerith, Charles, Jackson, Mich., assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio. Hydraulic valve. 2,428,278; Sept. 30.
- Holleron, William K., Victoria, Tex. Ditching machine. 2,421,883; June 10.
- Holley, Earl, assignee, et al.: *See*—  
Campbell, John F.  
Hieger, Robert H.  
Holley, George M., Jr.  
Kittler, Milton J., and Schorn.  
Schorn, Carl F.  
Udale, Stanley M.
- Holley, George M., assignee, et al.: *See*—  
Campbell, John F.  
Hieger, Robert H.  
Holley, George M., Jr.  
Kittler, Milton J., and Schorn.  
Schorn, Carl F.  
Udale, Stanley M.
- Holley, George M., Jr., Grosse Pointe, Mich., assignor to G. M. and E. Holley. Supercharger control. 2,417,363; Mar. 11.
- Holley, George M., Jr., Detroit, Mich., assignor to G. M. and E. Holley. Pressure carburetor. 2,420,079; May 6.
- Hollingsworth, Douglas T., assignor to Callender's Cable & Construction Company Limited, London, England. Wave guide for high-frequency electric currents. 2,416,177; Feb. 18.
- Hollingsworth, Douglas T., assignor to British Insulated Callender's Cables Limited, London, England. Termination for high tension electric cables. 2,423,596; July 8.
- Hollingsworth, Guilford L., Schenectady, N. Y., assignor to General Electric Company. Time measuring apparatus. 2,433,667; Dec. 30.
- Hollis, Thomas, Jr., Port Washington, N. Y. Cemented carbide cutting tool. 2,414,811; Jan. 28.
- Hollister, Donald C., Grosse Pointe, Mich., assignor to Eureka Williams Corporation. Bag coupling. 2,432,197; Dec. 9.
- Holloman, George V.: *See*—  
Fink, Rudolph, Holloman, and Paulus.
- Holloway, Donald F., and H. H. Young, assignors to Industrial Patents Corporation, Chicago, Ill. Recovery of cysteine. 2,414,303; Jan. 14.
- Holloway, Judson H., R. S. Tabke, and A. N. Parrett, assignors to Rayonier Incorporated, Shelton, Wash. Activation of wood pulp prior to esterification. 2,415,949; Feb. 18.
- Holloway, Luther J.: *See*—  
Brooks, Jasper J., and Holloway.
- Hollup Corporation, assignee: *See*—  
Candy, Albert M.
- Hollwarth, William G., Merchantville, N. J. Bolt anchor applying tool. 2,428,458; Oct. 7.
- Hollwarth, William G., Merchantville, N. J. Bolt anchor applying tool. 2,428,459; Oct. 7.
- Holly Sugar Corporation, assignee: *See*—  
Cooper, Albert L.
- Holm, Andrew C.: *See*—  
Andersen, Arthur H., Eaton, and Holm.
- Holm, Carl B., Englewood, N. J., assignor to International Braid Company. Display package. 2,432,892; Dec. 16.
- Holm, Melvin M., assignor, by mesne assignments, to California Research Corporation, San Francisco, Calif. Treatment of hydrocarbon materials. 2,414,259; Jan. 14.
- Holm, Sven: *See*—  
Jensen, Arthur, and Holm.
- Holman, Arthur T., Chyvertton, near Truro, England, and T. Thomson, Kilmarnock, Scotland. Ordnance. 2,417,983; Mar. 25.
- Holman, Gustave: *See*—  
Holman, William and G.
- Holman, Harold C., assignee, et al.: *See*—  
Evans, Homer E.
- Holman, Richard A., assignee: *See*—  
Groover, Lauren F.
- Holman, Robert W., G. R. Myers, and G. H. Rendel, Gary, Ind., assignors to Carnegie-Illinois Steel Corporation. Automatically controlling the melting of coating on continuous metallic strip. 2,419,214; Apr. 22.
- Holman, Torleif K., Brooklyn, N. Y., assignor of twenty-five per cent to M. Bjorndal, Jersey City, N. J. Production of magnesium and nitric oxide. 2,415,822; Feb. 18.
- Holman, William and G., Sheboygan, Wis. Battery hold-down device. 2,415,284; Feb. 4.
- Holme, Charles G., assignee: *See*—  
Hampton, Durward B.
- Holmes, Alvin W.: *See*—  
Kitselman, Harry L., and Holmes.
- Holmes, Carl E.: *See*—  
Lidow, Eric, and Holmes.
- Holmes, Carl L., Glendale, Calif. Opposed piston engine. 2,420,779; May 20.
- Holmes, Carl L., Glendale, Calif. Parallel piston engine. 2,421,884; June 10.
- Holmes, Donald C., Berkeley, Calif., assignor to Burrell Technical Supply Company, Pittsburgh, Pa. Flushing valve for gas columns. 2,416,482; Feb. 25.
- Holmes, Eric L., London, England, assignor to The Permutit Company, New York, N. Y. Anion exchange resin prepared with urea, paraformaldehyde, and aniline hydrochloride and removing acids from liquids therewith. 2,431,251; Nov. 18.
- Holmes, Frank C., Baton Rouge, La., assignor to Ethyl Corporation, New York, N. Y. Manufacture of isopropyl chloride. 2,429,758; Oct. 28.
- Holmes, Harrison H., Woodbury, N. J., and W. E. Lawson, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Fuse powder compositions. 2,414,465; Jan. 21.
- Holmes, Henry H., and A. H. Widdowson, assignors to Wildt and Company Limited, Leicester, England. Circular latch needle knitting machine. 2,425,243; Aug. 5.
- Holmes, John R., and J. A. Winter, Lockport, and I. M. Schultz, North Tonawanda, N. Y., assignors to General Motors Corporation, Detroit, Mich. Oil cooler. 2,419,264; Apr. 22.
- Holmes, Lowell L., Jr., Schenectady, N. Y., assignor to General Electric Company. Electric timer. 2,423,316; July 1.
- Holmes, Minot K., Muncie, Ind., and J. H. Plummer, Toledo, Ohio, assignors to Owens-Illinois Glass Company. Thermally toughened insulator. 2,418,713; Apr. 8.
- Holmes, Paul J., assignor to R. R. Stoddart, Los Angeles, Calif. Remotely controlled antenna tuning apparatus. 2,430,173; Nov. 4.



- Holmes, Phyllis, Stretford, England, assignor to Metropolitan-Vickers Electrical Company Limited. Removing coatings from metallic conductors. 2,421,617; June 3.
- Holmes, Ray D.: *See*—  
Williams, William H., Holmes, and Fruehauf.  
Williams, William H., Holmes, and Widiger.
- Holmes, Robert L., Roselle, N. J., assignor, by mesne assignments, to Jasco, Incorporated. Emulsification of olefinic polymers. 2,414,740; Jan. 21.
- Holmes, Roger B., South River, N. J., and A. J. Hill, New Haven, Conn., assignors to American Cyanamid Company, New York, N. Y. Alkamine esters of diarylpropionic acids. 2,423,025; June 24.
- Holmes, Roger B., South River, N. J., and A. J. Hill, New Haven, Conn., assignors to American Cyanamid Company, New York, N. Y. Alkamine esters of oxy substituted diarylhydroxyacetic acids. 2,430,116; Nov. 4.
- Holmes, Tracy S., Vallejo, Calif. Airplane control system. 2,424,889; July 29.
- Holmgren, Eric A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Making prewelt shoes. 2,418,177; Apr. 1.
- Holmström, Georg H. S., Göteborg, Sweden. Baby carriage and the like. 2,419,023; Apr. 15.
- Holmstrom, John G., and W. M. Brown, assignors to Kenworth Motor Truck Corporation, Seattle, Wash. Torsion-rod suspension for tandem through-axle vehicles. 2,428,160; Sept. 30.
- Holophane Company, Inc., assignee: *See*—  
Rolph, Thomas W.
- Holt, Ernest K.: *See*—  
Murphy, John F., and Holt.
- Holt, Harold S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Fuel container. 2,422,239; June 17.
- Holt, Hillis W.: *See*—  
Hartley, Arnold B., and Holt.
- Holt, Josephine L., Oakland, Calif. Abdominal support. 2,426,931; Sept. 2.
- Holt, Matthew L., Madison, Wis., and M. L. Nielsen, Anniston, Ala., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Electrodeposition of nickel-tungsten alloys. 2,432,893; Dec. 16.
- Holt, Matthew L., Madison, Wis., and R. E. Black, Philadelphia, Pa., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Electrodeposition of iron-tungsten alloys. 2,432,894; Dec. 16.
- Holt, Philetus H., 2nd: *See*—  
Meinert, Richard N., and Holt.
- Holt, Ray G.: *See*—  
Lauck, John A., and Holt.
- Holt, Ray G., Euclid, and J. Martin, South Euclid, Ohio, assignors, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Booster pump shut-off casing for pump removal. 2,420,315; May 13.
- Holt, Rossiter R.: *See*—  
Southwick, Laurence F., and Holt.
- Holt, William, assignor to J. & N. Philipps and Company, Limited, Manchester, England. Narrow fabric multiple web loom. 2,416,098; Feb. 18.
- Holte, John C., Edmonton, Alberta, Canada. Whiffletree hook. 2,422,731; June 24.
- Holter, Alfred, Chelsea, London, England. Construction of hollow articles in reinforced concrete. 2,427,604; Sept. 16.
- Holter, Norman F., assignor to Norton Company, Worcester, Mass. Pulpstone. 2,433,814; Dec. 30.
- Holthouse, Harry B., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Fuel conditioning means. 2,418,882; Apr. 15.
- Holthouse, Harry B., Chicago, Ill., assignor to Motorola, Inc. Air-heating system. 2,427,673; Sept. 23.
- Holthouse, Harry B., Chicago, Ill., assignor to Motorola, Inc. Aircraft heating apparatus with altitude responsive combustion air supply. 2,427,674; Sept. 23.
- Holthouse, Harry B., Chicago, Ill., assignor to Motorola, Inc. Internal-combustion aircraft heating apparatus. 2,427,675; Sept. 23.
- Holthouse, Harry B., Chicago, Ill., assignor to Motorola, Inc. Gasoline burning hot-air heater. 2,432,314; Dec. 9.
- Holton, George E., assignor to Hincley-Myers Division of Kent-Moore Organization, Inc., Jackson, Mich. Level measuring instrument. 2,423,317; July 1.
- Holtz, Ireneus B., Ashville, Pa. Tire chain securing device. 2,429,720; Oct. 28.
- Holtzman, William A., assignor to Hart-Carter Company, Peoria, Ill. Adjustable bar, frame threshing screen. 2,423,026; June 24.
- Holub, Arthur E., Wyoming, Iowa. Reel for barbed wire. 2,416,585; Feb. 25.
- Holuba, Stanley J., North Bergen, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Soap product and making same. 2,423,451; July 8.
- Holuba, Stanley J., North Bergen, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Treating sprayed dried organic detergents. 2,423,452; July 8.
- Holy, Mitchell E., Philadelphia, Pa., assignor to Container Corporation of America, Chicago, Ill. Carrier for bottles and the like. 2,418,350; Apr. 1.
- Holycross, Max L., Columbia City, Ind. Surgical support. 2,429,058; Oct. 14.
- Holz, Frank, Cleveland, Ohio. Metallurgical briquette and making same. 2,417,493; Mar. 18.
- Holz, Henry C., Salt Lake City, Utah. Electric damper control. 2,419,776; Apr. 29.
- Holzberger, Edgar J., Jr.: *See*—  
Parks, Wesley E., Heckendorf, and Holzberger.
- Holzschuh, Andrew A.: *See*—  
Pelton, Earl L., and Holzschuh.
- Holzworth, Lauriene T., assignee, et al.: *See*—  
Du Bois, Joseph E.
- Home Curtain Corporation, assignee: *See*—  
Lepow, Edward.
- Homer Laughlin China Company, The, assignee: *See*—  
Emerson, Walter H.
- Homeyer, August H., assignor to Mallinckrodt Chemical Works, St. Louis, Mo. Hydroxy-carboxy naphthalenes. 2,415,884; Feb. 18.
- Homeyer, Roger H., Tonawanda, assignor to The Carborundum Company, Niagara Falls, N. Y. Anchoring means for abrasive disks. 2,418,883; Apr. 15.
- Homrighous, John H., Oak Park, Ill. Cigarette lighter. 2,419,402; Apr. 22.
- Homrighous, John H., Oak Park, Ill. Glow and slow acting tube. 2,425,877; Aug. 19.
- Homrighous, John H., Oak Park, Ill. Directional control for bombs. 2,432,421; Dec. 9.
- Honerkamp, Friedrich: *See*—  
Kurth, Franz J., and Honerkamp.  
Kurth, Franz J., Honerkamp, and Kunen.
- Honeycutt, Baker M.: *See*—  
Watkins, Harmon L., and Honeycutt.
- Honeywell, Charles C., New Milford, assignor to Bendix Aviation Corporation, Teterboro, N. J. Electrical regulator. 2,424,464; July 22.
- Hönger, Guido, Petit-Lancy, Geneva, assignor to Meftna, S. A., Binningen, Switzerland. Fuse for ordnance projectiles or bombs. 2,421,266; May 27.
- Honhart, Jack C., Detroit, and E. W. Bagg, Harsens Island, Mich. Variable resistance welding electrode holder. 2,414,043; Jan. 7.
- Honhart, Jack C., Detroit, Mich. Hammer type weld cleaning tool having attached bit removers. 2,423,189; July 1.
- Honigman, Hans, East Cleveland, Ohio. Motion transmitting means and adjustment thereof. 2,425,188; Aug. 5.
- Honikman, Alfred H., Rondebosch, Cape Town, Cape of Good Hope, Union of South Africa. Roof gutter. 2,419,996; May 6.
- Honorary Advisory Council for Scientific and Industrial Research, assignee: *See*—  
Neish, Arthur C., Ledingham, and Blackwood.
- Honorary Advisory Council for Scientific and Industrial Research, The, assignee: *See*—  
Wright, George F.
- Honzl, Otto G., East Rutherford, assignor to National Union Radio Corporation, Newark, N. J. Glass sealing device. 2,413,766; Jan. 7.
- Hood, Carl W.: *See*—  
Lamb, Wade, and Hood.
- Hood, Charles E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for operating upon soles. 2,424,616; July 29.
- Hood, Edwin E., F. T. Christian, and J. E. Buxton, Elmira, N. Y., assignors to Bendix Aviation Corporation, South Bend, Ind. Engine starter. 2,423,068; June 24.
- Hood, Harrison P., assignor to Corning Glass Works, Corning, N. Y. Infrared transmitting glass. 2,416,392; Feb. 25.
- Hood, Robert L., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Fabric abrading tester. 2,423,704; July 8.
- Hood, Stanley R., Birmingham, Mich., assignor to Modern Metals and Materials, Chicago, Ill. Electrical resistor and making same. 2,418,804; Apr. 8.
- Hoee, Hunter E.: *See*—  
Mehan, Thomas O., and Hoee.
- Hoof, Addison C., deceased, Hinsdale; F. A. Hoof, H. C. Kepner, and W. Eckert, executors, assignors to Hoof Products Company, Chicago, Ill. Valve end seal. 2,417,494; Mar. 18.
- Hoof, Frances A., executors, et al.: *See*—  
Hoof, Addison C.
- Hoof Products Company, assignee: *See*—  
Hoof, Addison C.
- Hook, Charles H., Pittsburgh, Pa. Clutch mechanism. 2,414,304; Jan. 14.
- Hook, David: *See*—  
Mettrick, Arthur, and Hook.
- Hook, Edwin O.: *See*—  
Cook, Elmer W., and Hook.
- Hooker Electrochemical Company, assignee: *See*—  
Babcock, Jesse H., and Kischitz.  
Hubbard, Deane O.  
Sconce, James S.  
Spence, Harry R., and Hooker.  
Stratton, George B.  
Stuart, Kenneth E.
- Hooker, Horace W.: *See*—  
Spence, Harry R., and Hooker.
- Hooker, Robert C.: *See*—  
Moots, Clark, and Hooker.
- Hooper, Charles K.: *See*—  
Little, Donald G., and Hooper.



- Hooper, Frank B., Newport News, Va. Scupper valve remote control mechanism. 2,415,099; Feb. 4.
- Hooper, John W., South Salem, N. Y., assignor to American Machine & Foundry Company. Apparatus for sensing tabulating cards and the like. 2,416,625; Feb. 25.
- Hooper, Leslie J., Holden, and V. F. Sepavich, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Pneumatic thread holder for looms. 2,431,556; Nov. 25.
- Hooper, Leslie J., Holden, and G. N. Peterson, Grafton, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Pneumatic thread remover for looms. 2,432,157; Dec. 9.
- Hooper, Sim M., Fort Payne, Ala. Air-duct electric heater. 2,428,079; Sept. 30.
- Hoopes, Owen D.: *See*—  
Summerbell, William, Rhein, and Hoopes.
- Hopkins, John R.: *See*—  
Kaufmann, Hans O., McEwen, Shanley, and Hopkins.
- Hopper, Dwight L.: *See*—  
Cox, Joseph H., Hopper, and Colaiaco.
- Hopwood, John M., assignee: *See*—  
Williams, Ray S.
- Hooser, Donald B.: *See*—  
Taylor, Raymond G., Jr., and Hooser.
- Hoosier Cardinal Corporation, assignee: *See*—  
Bauer, Charles A.
- Hoover, Charles O., Houston, Tex., assignor to Air Reduction Company, Incorporated, New York, N. Y. Purifying hydrocarbon oils. 2,418,884; Apr. 15.
- Hoover, Charles O., Houston, Tex., assignor to Air Reduction Company, Incorporated, New York, N. Y. Production of gaseous hydrocarbon products free from volatile sulphur compounds. 2,423,238; July 1.
- Hoover, Charles O., Houston, Tex., assignor to Air Reduction Company, Incorporated, New York, N. Y. Stabilizing sulfur and sulfur compounds in crude petroleum. 2,430,981; Nov. 18.
- Hoover, Charles O., Houston, Tex., assignor to Air Reduction Company, Incorporated, New York, N. Y. Removing volatile sulfur compounds from hydrocarbon gases. 2,430,982; Nov. 18.
- Hoover Company, The, assignee: *See*—  
Hoover, Howard E.  
Smellie, Donald G.  
Swann, Edward R.  
White, Harry B.
- Hoover, Curtis R., Edmonton, Alberta. Powered implement carrier and loader. 2,427,968; Sept. 23.
- Hoover, Daniel B., Meadville, Pa. Finger operated rotatable tool. 2,418,638; Apr. 8.
- Hoover, Dillon B.: *See*—  
Lynn, Clarence, and Hoover.
- Hoover, Fred W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Thermosetting adhesives. 2,430,933; Nov. 18.
- Hoover, Herbert, Jr., Sierra Madre, assignor, by mesne assignments, to United Geophysical Company, Inc., Pasadena, Calif. Seismometer. 2,417,077; Mar. 11.
- Hoover, Herbert, Jr., Sierra Madre, assignor, by mesne assignments, to United Geophysical Company, Inc., Pasadena, Calif. Seismic amplifying system. 2,430,983; Nov. 18.
- Hoover, Howard E., Glencoe, Ill., assignor to The Hoover Company, North Canton, Ohio. Cabinet arrangement for absorption type household air conditioning units. 2,429,881; Oct. 28.
- Hoover, Vaino A., assignor to Electrical Engineering and Manufacturing Corporation, Los Angeles, Calif. Wound armature for electric machines. 2,427,282; Sept. 9.
- Hoover, Vaino A., assignor to Electrical Engineering and Manufacturing Corporation, Los Angeles, Calif. End bell for electrical machines. 2,428,162; Sept. 30.
- Hoover, Vaino A., assignor to Electrical Engineering and Manufacturing Corporation, Los Angeles, Calif. Electromagnetic clutch and brake. 2,430,174; Nov. 4.
- Hoover, Vaino A., assignor to Electrical Engineering and Manufacturing Corporation, Los Angeles, Calif. Shaft seal for submersible pumps. 2,430,509; Nov. 11.
- Hoover, Walter R., Mishawaka, Ind., assignor to United States Rubber Company, New York, N. Y. Fuel tank. 2,429,688; Oct. 28.
- Hoover, Walter R., and R. M. Paulsen, Mishawaka, and S. V. Landgraf, Elkhart, Ind., assignors to United States Rubber Company, New York, N. Y. Controlling polymerization of dihydric alcohol esters of alpha-olefinic dicarboxylic acids with ethylenic monomers. 2,429,060; Oct. 14.
- Hoover, Walter S., Montreal, Quebec, Canada. Propeller control. 2,422,966; June 24.
- Hoover, Walter S., Grosse Pointe, Mich. Circulating ball race propeller blade bearing. 2,425,938; Aug. 19.
- Hoover, Walter S., West Hartford, Conn. Making hollow steel propeller blades. 2,427,785; Sept. 23.
- Hope, Jack I., Bellville, Ohio. Milk can truck. 2,416,483; Feb. 25.
- Hope, Lawrence F., assignor to General Motors Corporation, Detroit, Mich. Balancing machine. 2,426,305; Aug. 26.
- Hopgood, Roy C., Jr., Glen Ridge, N. J., assignor to International Standard Electric Corporation, New York, N. Y. Instrument navigation system. 2,426,218; Aug. 26.
- Hopkins, Alfred J., River Forest, assignor to Gaw-O'Hara Envelope Company, Chicago, Ill. Express receipt holder. 2,423,027; June 24.
- Hopkins, Cecil W., assignor to Landis Machine Company, Waynesboro, Pa. Centerless grinding machine. 2,417,413; Mar. 18.
- Hopkins, Cecil W., and E. M. Eigenbrode, assignors to Landis Machine Company, Waynesboro, Pa. Centerless grinding machine. 2,427,283; Sept. 9.
- Hopkins, Ervin W., Hinsdale, Ill., G. Josh, Crown Point, Ind., and L. A. Harriman, assignors to Armour and Company, Chicago, Ill. Preparing dried egg products. 2,427,726; Sept. 23.
- Hopkins, Henry, Detroit, Mich. Fixture for drilling bowling balls. 2,428,669; Oct. 7.
- Hopkins, Nevil M., deceased, New York, N. Y.; R. B. Hopkins, executrix, assignor, by mesne assignments, to R. B. Hopkins, S. Lloyd, and M. L. Quigg, as trustees. Explosive device. 2,426,269; Aug. 26.
- Hopkins, Nevil M., deceased; R. B. Hopkins, executor, assignor to R. B. Hopkins, New York, N. Y. Rocket launching gun. 2,426,610; Sept. 2.
- Hopkins, Raymonde B., executrix, trustee, assignee, et al.: *See*—  
Hopkins, Nevil M.
- Hopkins, Robert C., Alliance, Ohio. Colloidal and homogenizing mill with toothed stator and rotor. 2,430,768; Nov. 11.
- Hopkins, Robert K., assignor to The M. W. Kellogg Company, New York, N. Y. Electrode holder and shield. 2,419,139; Apr. 15.
- Hopkins, Roy S., assignor to Eastman Kodak Company, Rochester, N. Y. Illumination arrangement for photographic enlargers. 2,415,635; Feb. 11.
- Hopkins, Thomas J., Fitchburg, Mass. Portable tool. 2,430,984; Nov. 18.
- Hopkins-Wyrick Laboratories, Inc., assignee: *See*—  
Wyrick, Clayton E.
- Hopmans, Arthur H., Paulding, Ohio. Master cylinder. 2,415,245; Feb. 4.
- Hoppe, William, Longmeadow, assignor to National Bread Wrapping Machine Company, Springfield, Mass. Adjustment mechanism for wrapping machine cross-feed conveyers. 2,427,141; Sept. 9.
- Hopper, Edward W., Midland, Pa., assignor to Crucible Steel Company of America, New York, N. Y. Tin-plate brightening apparatus. 2,424,034; July 15.
- Hopper, Fred H.: *See*—  
Cole, Gilmore N., and Hopper.
- Hopper Machine Works, Inc., assignee: *See*—  
Gignoux, Ralph E.
- Hoppman, Otto, Oak Park, Ill. Automatic retriever appliance for operating utensils such as erasers, pens, pencils, and the like. 2,419,215; Apr. 22.
- Hopton, Gerald U., assignor to The Gas Light and Coke Company, London, England. Preparation of reagents for the purification of gases. 2,429,759; Oct. 28.
- Hopwood, John M., assignee: *See*—  
Boho, Mitchell J.
- Horan, Timothy F., New Haven, Conn. Cartridge feeding mechanism for repeating firearms. 2,422,301; June 17.
- Horback, William, Newark, and W. D. Paist, Orange, N. J., assignors to Celanese Corporation of America. Rendering cellulose esters resistant to actinic rays. 2,432,521; Dec. 16.
- Hordes, Irving, Yonkers, N. Y. Apparatus for casting dental restorations. 2,421,698; June 3.
- Horeczy, Joseph T., Baytown, Tex., assignor to Standard Oil Development Company. Recovering a substantially olefin-free hydrocarbon fraction. 2,415,171; Feb. 4.
- Horeczy, Joseph T., Baytown, Tex., assignor to Standard Oil Development Company. Production of polymers from alcohols using a boron fluoride-acetic acid complex catalyst. 2,415,172; Feb. 4.
- Horeczy, Joseph T.: *See*—  
Pfennig, Reuben F., and Horeczy.  
Wadley, Edward F., and Horeczy.
- Horix Manufacturing Company, assignee: *See*—  
Weaver, Jesse E.
- Horman, Alfred E., New York, N. Y. Arm for woodworking machines. 2,418,639; Apr. 8.
- Horman, John H.: *See*—  
Curry, Robert S., Jr., Horman, Kircher, and Winsker.
- Horman, John H., Tuckahoe, assignor, by mesne assignments, to Allied Control Company, Inc., New York, N. Y. Switch. 2,415,134; Feb. 4.
- Horman, John H., Tuckahoe, assignor, by mesne assignments, to Allied Control Company, Inc., New York, N. Y. Switch. 2,417,200; Mar. 11.
- Hormes, William T., Catonsville, Md. Mounting for sliding door frames. 2,428,220; Sept. 30.
- Horn, Bernard, Chicago, Ill. Artificial limb construction. 2,422,302; June 17.
- Horn & Hardart Baking Co., assignee: *See*—  
Baker, Raymond, Sr.
- Horn, Jacques E., New York, N. Y. Protector for ladies' stockings. 2,429,625; Oct. 28.
- Horn, Jacques E., New York, N. Y. Sponge rubber mop and sheet holder. 2,429,626; Oct. 28.
- Horn, Jacques E., New York, N. Y. Handle operated brushes, brooms, and like articles. 2,432,098; Dec. 9.
- Horn, Knud, assignor to F. L. Smidth & Co., New York, N. Y. Reduction of sulphates. 2,425,740; Aug. 19.



- Horn, Knud, assignor to F. L. Smith & Co., New York, N. Y. Cement manufacture. 2,426,147; Aug. 19.
- Horn, Merl E., Forest Hills, T. Lindstrom, Edgewood, and F. E. Florschutz, Forest Hills, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,414,526; Jan. 21.
- Horn, Thurman, Anniston, Ala., assignor to Cabometer, Inc. Cab meter. 2,428,080; Sept. 30.
- Hornbacher, Herbert G., Essexville, and L. E. Lloyd, Midland, Mich., assignors to Corning Glass Works, Corning, N. Y. Still head condenser. 2,427,142; Sept. 9.
- Hornbarger, Earl H., Edgewood, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Alternating current drive protective system. 2,431,252; Nov. 18.
- Hornbeck, Charlie A., Chandler, Okla. Toy parachute. 2,421,618; June 3.
- Hornbeck, Frank E., Forest City, Pa. Pen and pencil retainer. 2,422,642; June 17.
- Hornberger, Clarence L., Manheim Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Universal stripping arrangement for dies. 2,417,414; Mar. 18.
- Hornbostel, John, Glen Ridge, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Calibration of radiosondes. 2,425,537; Aug. 12.
- Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Rotary tool lathe. 2,426,932; Sept. 2.
- Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Suction drum press. 2,429,689; Oct. 28.
- Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Stream flow valve actuator. 2,430,175; Nov. 4.
- Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Band guide. 2,431,557; Nov. 25.
- Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Drier drum. 2,433,121; Dec. 23.
- Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Felt and drum assembly for drying webs. 2,433,122; Dec. 23.
- Hornbostel, Lloyd, and E. D. Beachler, assignors to Beloit Iron Works, Beloit, Wis. Press roll arrangement for paper making. 2,415,350; Feb. 4.
- Hornbostel, Lloyd, and J. E. Goodwillie, assignors to Beloit Iron Works, Beloit, Wis. Papermaking machine. 2,415,351; Feb. 4.
- Hornbostel, Lloyd, and J. E. Goodwillie, assignors to Beloit Iron Works, Beloit, Wis. Fluid removal device for drying drums. 2,420,824; May 20.
- Hornbrook, Philip R., Allentown, assignor to Fuller Company, Catasauqua, Pa. Conveying apparatus. 2,418,302; Apr. 1.
- Hörndlein, Richard: *See*—Lampel, Walter, and Hörndlein.
- Horne, John A., assignee, et al.: *See*—Francona, Frank.
- Horne, John, Candy Mfg. Co., assignee: *See*—Francona, Frank.
- Horne, Mary C., assignee, et al.: *See*—Francona, Frank.
- Horne, Thomas A., assignee, et al.: *See*—Francona, Frank.
- Horne, Thomas B., assignee, et al.: *See*—Francona, Frank.
- Horne, Wilford P., Richmond, Calif. Water heater. 2,414,875; Jan. 28.
- Horneman, Herman C., R. V. Hussong, and S. N. Quam, Danville, Ill., and B. W. Hammer, Ames, Iowa, assignors to Sugar Creek Creamery Company, Danville, and Cherry-Burrell Corporation, Chicago, Ill. Milk fat concentrate process. 2,423,834; July 15.
- Horney, Amos G., Euclid, and J. G. Shukys, Cleveland, Ohio, assignors to Air Reduction Company, Incorporated, New York, N. Y. Isopropenylvinyl ether. 2,414,201; Jan. 14.
- Hornfeck, Anthony J., Cleveland Heights, Ohio, assignor to Bailey Meter Company. Measuring and controlling system. 2,420,539; May 13.
- Hornfeck, Anthony J., Cleveland Heights, Ohio, assignor to Bailey Meter Company. Electrical measuring system. 2,432,422; Dec. 9.
- Hornickel, Herman C., Fair Haven, N. J. Face harness for microphones. 2,418,120; Apr. 1.
- Hornsby, Denis V., Columbus, Ohio. Lock washer. 2,431,480; Nov. 25.
- Hornstein, Samuel: *See*—Aiken, Thomas M.
- Horr, John V., North Tarrytown, assignor to Einson-Freeman Co., Inc., Long Island City, N. Y. Collapsible cardboard display device. 2,416,754; Mar. 4.
- Horsfall, Robert B., Jr.: *See*—Turner, Arthur F., and Horsfall.
- Horsley, Caperton B., Stamford, Conn., assignor to Ultrasonic Corporation, Boston, Mass. Method of and apparatus for modulating the frequency of sound waves. 2,424,357; July 22.
- Horsley, Franz A., Martinez, assignor to Shell Development Company, San Francisco, Calif. Removal of carbonaceous deposits. 2,419,076; Apr. 15.
- Horsley, Lee H.: *See*—Nutting, Howard S., and Horsley.
- Horst, Roy A., Syracuse, and E. B. Port, Baldwinsville, assignors to The Solvay Process Company, New York, N. Y. Brine flush-out for electrolytic cells. 2,415,135; Feb. 4.
- Horst, Tallmon E., Des Plaines, Ill. Coding and decoding apparatus. 2,417,163; Mar. 11.
- Horstkotte, Edward H., Erie, Pa., assignor to General Electric Company. Refrigeration insulation. 2,429,059; Oct. 14.
- Horton, Albert J., White Plains, N. Y., and W. K. Eckhard, Newark, N. J., assignors to R. Hoe & Co., Inc., New York, N. Y. Printing machine. 2,419,403; Apr. 22.
- Horton, Albert J., White Plains, and W. C. Wiekling, Woodhaven, assignors to R. Hoe & Co., Inc., New York, N. Y. Electric controller for multiunit machines. 2,423,028; June 24.
- Horton, Arthur, Chicago, Ill. Towing bar. 2,424,095; July 15.
- Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Window control for motor vehicles. 2,418,031; Mar. 25.
- Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Adjustable motor vehicle seat. 2,432,895; Dec. 16.
- Horton, Francis, assignor to The Texas Company, New York, N. Y. Isomerizing saturated low boiling feed hydrocarbons. 2,417,201; Mar. 11.
- Horton, George T., Chicago, Ill., assignor to Chicago Bridge & Iron Company. Spherical tank. 2,427,676; Sept. 23.
- Horton, George T., Chicago, Ill., assignor to Chicago Bridge & Iron Company. Storage tank. 2,431,693; Dec. 2.
- Horton, John W., East Orange, N. J. Ignition testing device. 2,425,321; Aug. 12.
- Horton Manufacturing Company, assignee: *See*—Bradley, William H. Treadway, William I., and Linxwiler.
- Horton, Ralph: *See*—Lis, Leon, and Horton.
- Horton, Reuben H., Philadelphia, Pa., C. L. Eksergian, Detroit, Mich., and H. K. Harwick, Darby, assignors to The Budd Company, Philadelphia, Pa. Vehicle and brake mechanism therefor. 2,415,388; Feb. 4.
- Horvath, Artemy A., assignor to Hall Laboratories, Inc., Pittsburgh, Pa. Preparing vegetable protein-phosphosphate compounds. 2,429,579; Oct. 21.
- Horvath, Artemy A., assignor to Hall Laboratories, Inc., Pittsburgh, Pa. Vegetable protein-phosphosphate urea solution and preparing same. 2,431,119; Nov. 18.
- Horvitz, Gerard M., Johannesburg, Transvaal, Union of South Africa. Electric burglar alarm. 2,423,649; July 8.
- Horvitz, Leo, assignor to E. E. Rosaire, Houston, Tex. Gas analysis. 2,414,876; Jan. 28.
- Hosking, Oakley W., Monroe, N. Y., assignor to Composite Rubber Products Corporation, Bridgeport, Conn. Bendable valve stem. 2,415,063; Jan. 28.
- Hoskins, Chester E., Springfield, Mass. Belt loading device for subcaliber ammunition. 2,420,664; May 20.
- Hoskins, Edmund E.: *See*—Washburn, Harold W., and Hoskins.
- Hosler, Theodore R., Grand Rapids, Mich. Lifting tool for cylinder heads. 2,427,104; Sept. 9.
- Hosmer, Elbridge E., Ridley Park, Pa. Fuse containing electric plug. 2,428,625; Oct. 7.
- Hossenlopp, Arthur M., Metuchen, assignor to Henry L. Crowley & Company, Inc., West Orange, N. J. Soapstone crayon and making same. 2,425,804; Aug. 19.
- Hossfeld, Albert, Winona, Minn. Iron bending machine. 2,414,151; Jan. 14.
- Hossfeld, Albert, Winona, Minn. Iron bending machine. 2,415,743; Feb. 11.
- Hoster, Manfred T., St. Peters, Pa. Rotatable means for decanting liquids from solids. 2,427,967; Sept. 23.
- Hosterman, Harry L.: *See*—Morse, John F., and Hosterman.
- Hotchkiss, Clifford: *See*—Malone, Homer E., and Hotchkiss.
- Hotchkiss Realty Corporation, assignee: *See*—Peterson, Roy E.
- Hotchner, Fred, Los Angeles, Calif. Illuminated display device having animation effects. 2,419,216; Apr. 22.
- Hotchner, Fred, Los Angeles, Calif. Retroreflective animation display. 2,432,896; Dec. 16.
- Hotine, William, Bayville, N. Y., assignor to Federal Telephone and Radio Corporation. Electron discharge device. 2,416,318; Feb. 25.
- Hotine, William, Great Neck, N. Y., assignor to Federal Telephone and Radio Corporation. High-frequency oscillator. 2,416,319; Feb. 25.
- Hotine, William, Watertown, Mass., assignor to Federal Telephone and Radio Corporation, Newark, N. J. High-frequency amplifier. 2,429,760; Oct. 28.
- Hotinger, Edwin J., Rockaway, N. J. Device for securing a propellant charge to an artillery primer. 2,419,949; May 6.
- Hotpoint Inc., assignee: *See*—Andrews, John L. Kempton, Leslie A. Koertge, Nobel H. Oakley, Sterling A.
- Hotstream Heater Company, assignee: *See*—Short, George A.
- Hotstream Heater Company, The, assignee: *See*—Morrow, Clarence H.



- Hotze, Henry, & Sons Company, assignee: *See*—  
Riess, John.
- Houck, James P.: *See*—  
Geisselman, Ralph A., and Houck.
- Houck, James P., Wilkinsburg, and D. H. Shallcross, Sr., Collingdale, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit controller. 2,426,306; Aug. 26.
- Houck, Robert C.: *See*—  
Russell, John, and Houck.
- Houdaille-Hershey Corporation, assignee: *See*—  
Ferguson, Arthur P., and Jandus.  
Henricks, John A.  
Johnson, Bernard C.  
Magrum, Gervase M.  
Sebok, Joseph B.
- Houdry Eugene J., Ardmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Catalysis. 2,414,812; Jan. 28.
- Houdry, Eugene J., Ardmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Contacting apparatus. 2,418,837; Apr. 15.
- Houdry, Eugene J., Ardmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Catalytic dehydrogenation of aliphatic hydrocarbons. 2,419,997; May 6.
- Houdry, Eugene J., Ardmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Producing diolefins. 2,423,029; June 24.
- Houdry, Eugene J., Ardmore, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Inert heat material in contact mass catalysis. 2,423,835; July 15.
- Houdry Process Corporation, assignee: *See*—  
Bates, John R.  
Bond, George R., Jr.  
Cummings, Leland W. T.  
Houdry, Eugene J.  
Newton, Roger H.  
Prickett, Thomas B., and Bates.  
Prickett, Thomas B., and Lassiat.  
Shabaker, Hubert A.
- Houghton, Edward W., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical equipment. 2,415,823; Feb. 18.
- Houghton, Leslie W.: *See*—  
Charterjee, Prafulla K., and Houghton.  
Scully, Charles T., and Houghton.
- Houghton, William D., Port Jefferson, N. Y., assignor to Radio Corporation of America. Pulse multiplex transmission system. 2,420,374; May 13.
- Houghton, William D., Port Jefferson, N. Y., assignor to Radio Corporation of America. Cathode ray tube modulator in a pulse multiplex transmitter. 2,427,500; Sept. 16.
- Houk, Alva L., assignor to Röhm & Haas Company, Philadelphia, Pa. Mildewproofing textiles. 2,430,017; Nov. 4.
- Houle, Albany, Louiseville, Quebec, Canada. Pliable bottle carrier. 2,427,105; Sept. 9.
- Houlton, Harold G., assignor to The Girdler Corporation, Louisville, Ky. Manufacture of grease. 2,417,495; Mar. 18.
- House, Albert E., West Vancouver, British Columbia, Canada. Welding equipment. 2,428,161; Sept. 30.
- House, Bryan E.: *See*—  
Goepfrich, Rudolph A., and House.
- House, Bryan E., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake, wheel, and axle assembly. 2,429,815; Oct. 28.
- House, Harrison D.: *See*—  
Bradnack, John H., and House.
- Housekeeper, Earl J., assignor to The Wooster Brass Company, Wooster, Ohio. Nozzle adapter. 2,423,239; July 1.
- Houston, David F.: *See*—  
Van Atta, George R., and Houston.
- Houston, George J., Scranton, Pa. Rope fastener device. 2,418,885; Apr. 15.
- Houston, Ross, Tacoma, Wash. Demountable fume construction. 2,430,018; Nov. 4.
- Houtman, Thomas, Jr., assignor to The Dow Chemical Company, Midland, Mich. Nuclear substituted 2-hydroxy-benzophenones and making same. 2,419,553; Apr. 29.
- Hovey, Almon G.: *See*—  
Braidwood, Clinton A., and Hovey.
- Hovey, C. Earl, assignee, trustee: *See*—  
Bloomfield, Samuel.  
Hagstrom, Jerome E.
- Hovland, Henry, Williston Park, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Coin-operated telephone system. 2,427,000; Sept. 9.
- Howard, Alan, Schenectady, N. Y., assignor to General Electric Company. Bladed rotor. 2,432,315; Dec. 9.
- Howard, Charles L., Winnetka, Ill. Ice creeper. 2,425,939; Aug. 19.
- Howard, Dana C., Springfield, Mass. Body armor. 2,424,985; Aug. 5.
- Howard, David A., Jr., Hartwell, Ga. Transmission line voltage indicator. 2,416,694; Mar. 4.
- Howard, Earl H.: *See*—  
Owen, Robert G., and Howard.
- Howard, Frank C., Dearborn, Mich. Wobble plate engine. 2,424,660; July 29.
- Howard, Frank S., Chicago, Ill., assignor to Birtman Electric Company. Handle for suction cleaners. 2,419,554; Apr. 29.
- Howard, George E., Butler, Pa. Internal combustion motor. 2,419,450; Apr. 22.
- Howard, George M., Cincinnati, Ohio. Tumbling mill. 2,420,748; May 20.
- Howard, Harold M., Elmhurst, Long Island, N. Y. Hair-pin dispenser. 2,421,202; May 27.
- Howard, Harry V., assignee: *See*—  
Highy, Charles D., Sr.
- Howard, Herbert W.: *See*—  
Johns, Francis J., and Howard.
- Howard Industries, Inc., assignee: *See*—  
Lawton, Maxwell, and Rosenberg.
- Howard, Jessie A., assignee: *See*—  
Levey, Harold A., and Gary.
- Howard, Leonard L., Valparaiso, Ind., assignor to Continental-Diamond Fibre Company, Newark, Del. Making mica rings. Re. 22,954; Dec. 30.
- Howard Sales Company, assignee: *See*—  
Hoffman, Allen S.
- Howard, Toombs, and E. R. Barr, assignors to Columbus Iron Works Company, Columbus, Ga. Peanut digger. 2,416,006; Feb. 18.
- Howard, Willis G., Indianapolis, Ind. Egg treating machine. 2,418,409; Apr. 1.
- Howard, Willis G., Indianapolis, Ind. Egg treating machine. 2,428,115; Sept. 30.
- Howards & Sons Limited, assignee: *See*—  
Lock, Ritchie H.
- Howarth, Lambert, and Sons Limited, assignee: *See*—  
Greenhalgh, James.
- Howe, Earl E., assignor, by mesne assignments, to Chicago Forging and Manufacturing Company, Chicago, Ill. Joint for tubing. 2,431,120; Nov. 18.
- Howe, Elra F., Chicago, Ill. Flood control system. 2,421,066; May 27.
- Howe & Fant, Inc., assignee: *See*—  
Giannini, Gabriel M.  
Manildi, Joseph F.
- Howe, Harold, Rowayton, Conn. Firetray assembly support. 2,425,036; Aug. 5.
- Howe, Harry L.: *See*—  
Candlin, James E., Jr., and Howe.
- Howe, James V., Philadelphia, Pa. Projectile. 2,423,453; July 8.
- Howe, Lewis G., and E. P. Smith, Anderson, Ind., and R. K. Annis, Columbus, Ohio; said Howe and said Smith assignors to Howe Fire Apparatus Company, Anderson, Ind. Centrifugal pump. 2,422,415; June 17.
- Howe, May D., Brooklyn, N. Y. Hair straightening and drying device. 2,419,777; Apr. 29.
- Howe, Wallace L., West Boylston, and L. S. Washburn, assignors to Norton Company, Worcester, Mass. Pulpstone. 2,421,885; June 10.
- Howe, Wallace L., West Boylston, and L. S. Washburn, assignors to Norton Company, Worcester, Mass. Pulpstone. 2,421,886; June 10.
- Howe, William C., Chicago, Ill. Laundry bag and closing device therefor. 2,421,067; May 27.
- Howell, Alun R., Neath, assignor to Power Jets (Research and Development) Ltd., London, England. Blades for axial flow compressors and turbines. 2,426,270; Aug. 26.
- Howell, Edward N., Arlington, Va. Locking device. 2,427,909; Sept. 23.
- Howell, Sabert N.: *See*—  
Lindenberg, Theodore, Jr., and Howell.
- Howells, John N. M., Kittery, Maine. Tax calculator. 2,424,890; July 29.
- Howells, John N. M., Kittery Point, Maine. Applying fastening devices. 2,430,293; Nov. 4.
- Howells, John N. M., Kittery Point, Maine. Fastening device. 2,430,294; Nov. 4.
- Hoves, Donald A., Sunbury-on-Thames, assignor to Anglo-Iranian Oil Company Limited, London, England. Production of motor or aviation fuels. 2,421,619; June 3.
- Hoves, Edgar T., Pasadena, Calif. Vacuum tube voltage indicator or recorder. 2,420,598; May 13.
- Hoves, Gordon: *See*—  
Eitel, William W., McCullough, and Hoves.
- Howison, Robert J., Detroit, Mich., assignor to Morse Chain Company, Ithaca, N. Y. Stamped chain connector. 2,413,829; Jan. 7.
- Hawk, Benjamin W.: *See*—  
Izard, Emmette F., and Hawk.
- Hawk, Benjamin W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Vinyl cyanide from acetylene and HCN. 2,423,318; July 1.
- Hawk, Benjamin W., Wilmington, Del., and R. A. Jacobson, Landenberg, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Photopolymerization of vinyl and vinylidene compounds. 2,413,973; Jan. 7.
- Hawk, Benjamin W., and H. J. Richter, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of interpolymers of vinyl chloride and esters of ethylenedicarboxylic acids. 2,416,874; Mar. 4.
- Howland, Louis H., Waterbury, and B. A. Hunter, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y. Preservation of synthetic rubber. 2,419,354; Apr. 22.



- Howland-Shearman, Beatrice W., executrix: *See*—  
Howland-Shearman, Charles H.
- Howland-Shearman, Charles H., deceased, by B. W. Howland-Shearman, executrix, Hamden, Conn. Machine tool. 2,432,522; Dec. 16.
- Howlett, Edward J., North Finchley, London, assignor to H. N. R. and M. Gledhill, Halifax, England. (Doing business as Thomas's). Laundry and other machines. 2,432,017; Dec. 2.
- Howren, Walker A., Jr., Norfolk, Va. Adjusting device for turn and bank indicators. 2,426,554; Aug. 26.
- Howser, Claude M., Santa Barbara, Calif. Sewing kit. 2,414,877; Jan. 28.
- Hoy Equipment Company, assignee: *See*—  
Hoy, Frank H.
- Hoy, Frank H., assignor to Hoy Equipment Company, Milwaukee, Wis. Meat mold. 2,431,253; Nov. 18.
- Hoy, Thomas J., Newark, N. J. Joint. 2,427,456; Sept. 16.
- Hoy, Thomas J., Newark, N. J. Journal lubricating device. 2,433,319; Dec. 23.
- Hoye, Peder B., Maywood, assignor to Electrical Engineers Equipment Co., Melrose Park, Ill. Electrical bus construction. 2,430,510; Nov. 11.
- Hoyer, Alfred W., Minneapolis, Minn. Mop construction. 2,413,872; Jan. 7.
- Hoyle, Robert L., Camp Parks, Calif. Power steering mechanism for tractors. 2,424,617; July 29.
- Hoyler, Cyril N., Princeton, N. J., assignor to Radio Corporation of America. Apparatus for concentrating drugs. 2,427,786; Sept. 23.
- Hoyt, Gerald A.: *See*—  
Edwards, Martin A., Ogle, and Hoyt.
- Hoyt, Gerald A., Schenectady, N. Y., assignor to General Electric Company. Antenna. 2,415,650; Feb. 11.
- Hruska, Joseph J., Milwaukee, Wis. Flexible joint. 2,433,696; Dec. 30.
- Hubacker, Earl F., Highland Park, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Motor compressor assembly. 2,415,011; Jan. 28.
- Hubacker, Earl F., Highland Park, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Two-temperature refrigerating system. 2,423,386; July 1.
- Hubalek, Arthur, Brooklyn, N. Y. Firing mechanism. 2,422,900; June 24.
- Hubbard, Deane O., assignor to Hooker Electrochemical Company, Niagara Falls, N. Y. Breaking up liquid streams. 2,414,741; Jan. 21.
- Hubbard, George H., Seattle, Wash., and H. L. Turney, Houston, Tex.: said Hubbard assignor to Washington Iron Works, Seattle, Wash. Crane. 2,428,163; Sept. 30.
- Hubbard, Honoré C., assignee: *See*—  
Pugh, Walter E.
- Hubbell, Dean S., Sharpsburg, assignor to H. H. Robertson Company, Pittsburgh, Pa. Cupreous powder and making the same. 2,420,540; May 13.
- Hubbell, Harvey, Long Hill, and J. F. Healy, Jr., Bridgeport, assignors to Harvey Hubbell, Incorporated, Bridgeport, Conn. Multiunit wiring receptacle. 2,424,986; Aug. 5.
- Hubbell, Harvey, Long Hill, and J. F. Healy, Jr., assignors to Harvey Hubbell, Incorporated, Bridgeport, Conn. Spring lock panel receptacle. 2,427,001; Sept. 9.
- Hubbell, Harvey, Inc., assignee: *See*—  
Buchanan, Stephen N., and Johnson.
- Hubbell, Harvey, Incorporated, assignee: *See*—  
Hubbell, Harvey, and Healy.
- Huber, Gustav, assignor to Kencol Wear Limited, Cleator, England. Yarn laying guide of flat single bed knitting machine. 2,432,477; Dec. 9.
- Huber, Harold E., Jr., Louisville, Ky., assignor to Standard Oil Company, Chicago, Ill. Hydrocarbon synthesis. 2,417,184; Mar. 11.
- Huber, Jakob, Wettingen, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Mechanical switching device. 2,421,267; May 27.
- Huber, John B., Warrington, assignor to Autogiro Company of America, Philadelphia, Pa. Fuselage skeleton for rotative wing aircraft. 2,421,620; June 3.
- Huber, Matthew W., Watertown, N. Y., assignor to The New York Air Brake Company. Accumulator. 2,417,873; Mar. 25.
- Huber, Matthew W., Watertown, N. Y., assignor to The New York Air Brake Company. Pressure control for pumps. 2,433,220; Dec. 23.
- Huber, Matthew W., Watertown, N. Y., assignor to The New York Air Brake Company. Diaphragm. 2,433,221; Dec. 23.
- Huber, Matthew W., Watertown, N. Y., assignor to The New York Air Brake Company. Pump. 2,433,222; Dec. 23.
- Huber, Wolfgang, Castleton-on-Hudson, assignor, by mesne assignments, to Winthrop-Stearns Inc., New York, N. Y. Vasodilator compositions comprising alkyl nicotines. 2,431,558; Nov. 25.
- Huck, Louis C., Grosse Pointe, assignor, by mesne assignments, to Huck Manufacturing Company, Detroit, Mich. Metal plate dimpling machine. 2,431,935; Dec. 2.
- Huck Manufacturing Company, assignee: *See*—  
Huck, Louis C.
- Huck, Rudolf E., San Francisco, Calif. Artificial limb. 2,427,457; Sept. 16.
- Huck, William F., Richmond Hill, assignor to R. Hoe & Co., Inc., New York, N. Y. Inking mechanism for printing machines. 2,420,080; May 6.
- Huck, William F., Forest Hills, assignor to R. Hoe & Co., Inc., New York, N. Y. Plate clamping mechanism for printing machines. 2,424,170; July 15.
- Huckleberry, Harry M., Rodgers Forge, Md., assignor to Bendix Aviation Corporation, South Bend, Ind. Inductor. 2,416,393; Feb. 25.
- Huddle, Edwin F., Elmwood Park, Ill., assignor to International Harvester Company. Stone ejector for field hay choppers. 2,424,171; July 15.
- Huddleston, Lon, Oklahoma City, Okla. Animal boot. 2,424,172; July 15.
- Hudr Corporation, assignee: *See*—  
Zahn, George G.
- Hudson, Edwin B., assignor to The American Rolling Mill Company, Middletown, Ohio. Ring mill construction. 2,430,054; Nov. 4.
- Hudson, Frank, Irwin, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Indicating lamp. 2,414,527; Jan. 21.
- Hudson, J. B., Inc., assignee: *See*—  
Lewis, Bruce L.
- Hudson, James L., Detroit, Mich. Liquid carbonator. 2,431,936; Dec. 2.
- Hudson, James W., Upper Darby, assignor to Walker Brothers, Conshohocken, Pa. Pickling process. 2,428,221; Sept. 30.
- Hudson, Thomas B., Bartlesville, Okla., assignor to Phillips Petroleum Company. Control of catalytic processes using mobile catalysts. 2,428,161; Oct. 14.
- Hudson, Thomas B., I. L. Wolk, and J. D. Upham, Bartlesville, Okla., assignors to Phillips Petroleum Company. Alkylation process. 2,426,611; Sept. 2.
- Hudson, Wayne W., Sheridan, Mich. Chemical compounds. 2,433,123; Dec. 23.
- Hudson, William H., assignor to J. W. Swenson, Detroit, Mich. Oven structure. 2,419,643; Apr. 29.
- Hudson Bay Mining and Smelting Company, Limited, assignee: *See*—  
Lowe, Sherwin P., Reikie, Kent, and Long.
- Hueber, Carl J., Euclid, Ohio, assignor to Addressograph-Multigraph Corporation, Wilmington, Del. Printing machine. 2,412,813; Jan. 28.
- Hueber, Carl J., Euclid, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio. Retaining an index card and printing plate on a carrier. 2,423,705; July 8.
- Hueber, Carl J., Euclid, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio. Printing plate blank and carrier therefor. 2,425,322; Aug. 12.
- Hueber, Carl J., Euclid, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio. Printing plate and carrier therefor. 2,425,323; Aug. 12.
- Hueber, Carl J., Euclid, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio. Retaining printing plates on carriers. 2,425,324; Aug. 12.
- Hueber, Carl J., Euclid, and W. J. Hampton, South Euclid, assignors to Addressograph-Multigraph Corporation, Cleveland, Ohio. Printing plate and carrier therefor. 2,425,325; Aug. 12.
- Huebner, George J., Jr., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Drive control mechanism. 2,418,835; Apr. 15.
- Huebner, William C., New York, N. Y. Process and apparatus for electronic printing. Re. 22,869; Apr. 15.
- Huebner, William C., New York, N. Y. Predetermined register device for printing elements and the like. 2,417,496; Mar. 18.
- Huebsch Manufacturing Company, assignee: *See*—  
Watson, Thomas S.
- Huebschman, Paul J., Dearborn, assignor to Whitehead & Kales Company, River Rouge, Mich. Spare tire carrier skid assembly. 2,418,178; Apr. 1.
- Huenerfauth, George E., F. P. Green, and G. J. Yochim, assignors to Crown Rheostat & Supply Co., Chicago, Ill. Material for use in tumbling barrel polishing operations. 2,431,879; Dec. 2.
- Huenergardt, William H., assignor to M. Reynolds, Chicago, Ill. Fountain pen. 2,426,453; Aug. 26.
- Hueser, Frank A., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Device for measuring the level of a molten metal bath. 2,423,583; July 15.
- Huetten, Clarence, assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Vibrator. 2,415,691; Feb. 11.
- Huff, Henry S., Princeton, N. J., assignor to Radio Corporation of America. Position determining system. 2,422,100; June 10.
- Hufford, George H.: *See*—  
Knaggs, Harold J., and Hufford.
- Huffman, Coy L., Greenville, S. C. Lug strap connector. 2,430,226; Nov. 4.
- Huffman, Edward B.: *See*—  
Bosomworth, George P., and Huffman.
- Huffman, Hal C.: *See*—  
Parker, Robert L., Jr., and Huffman.
- Huffman, James O., Los Angeles, Calif. Apparatus for successively displaying the individual cards of a plurality. 2,416,313; Feb. 25.
- Huffsmith, Edwin F., Cook, Wash. Chain saw filing bench. 2,413,919; Jan. 7.
- Hufnagel, Andrew, Penn Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 2,426,970; Sept. 2.



- Huge, Henry M., Lorain, Ohio, assignor of one-half to C. P. Stocker and one-half to E. M. Heavens. Frequency changer. 2,418,640; Apr. 8.
- Huge, Henry M., Lorain, Ohio, assignor of one-half to C. P. Stocker and one-half to E. M. Heavens. Frequency changer. 2,418,641; Apr. 8.
- Huge, Henry M., Lorain, Ohio, assignor of one-half to C. P. Stocker and one-half to E. M. Heavens. Frequency reducer. 2,418,642; Apr. 8.
- Huge, Henry M., Lorain, Ohio, assignor of one-half to C. P. Stocker and one-half to E. M. Heavens. Magnetic frequency changer. 2,418,643; Apr. 8.
- Huge, Henry M., assignor, by mesne assignments, to Lorain Products Corporation, Lorain, Ohio. Frequency changer. 2,424,236; July 22.
- Huge, Henry M., assignor, by mesne assignments, to Lorain Products Corporation, Lorain, Ohio. Frequency multiplier. 2,424,237; July 22.
- Huggenberger, Arnold, Zurich, Switzerland. Aircraft oxygen regulator. 2,420,375; May 13.
- Huggins, Maurice L.: See—  
Sun, Kuan-Han, and Huggins.
- Hughes By-Products Coke Oven Corporation, assignee: See—  
Hughes, Charles H.
- Hughes, Charles H., Glen Ridge, N. J., assignor to Hughes By-Product Coke Oven Corporation, New York, N. Y. Combined cracking and coking broad ovens of the recuperator type. 2,426,612; Sept. 2.
- Hughes, Everett C.: See—  
Burk, Robert E., and Hughes.
- Hughes, Everett C., Cleveland Heights, assignor to The Standard Oil Company, Cleveland, Ohio. Hydrocarbon treatment. 2,417,415; Mar. 18.
- Hughes, Henry, & Son Limited, assignee: See—  
Everitt, Philip F.
- Hughes, Joseph A.: See—  
Earley, Samuel C. and N. B., Sanders, Skareen, Davies, and Hughes.
- Hughes Tool Company, assignee: See—  
Elliott, Harry E.
- Hughes, Walter J., assignor to Inflico Incorporated, Chicago, Ill. Telemetering device. 2,428,222; Sept. 30.
- Hughes, William, Consett, England. Synchronized control gear. 2,421,944; June 10.
- Hughey, Howard G., Fanwood, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Oxygen valve for cutting torches. 2,414,878; Jan. 28.
- Hughey, Howard G., Fanwood, N. J., assignor to Air Reduction Company, Incorporated. Apparatus for cutting metal. 2,426,690; Sept. 2.
- Hughey, Howard G., Fanwood, N. J., assignor to Air Reduction Company, Incorporated. Mixing arrangement for torches. 2,430,511; Nov. 11.
- Hughey, Howard G., Fanwood, N. J., assignor to Air Reduction Company, Incorporated. Starting rod feed device. 2,433,514; Dec. 30.
- Hughey, Howard G., Fanwood, N. J., assignor to Air Reduction Company, Incorporated. Water-cooled lance torch. 2,433,610; Dec. 30.
- Hughey, Merle, assignee, et al.: See—  
Marksberry, Raymond D.
- Hugin, Adolph C., Schenectady, N. Y., assignor to General Electric Company. Dynamoelectric machine. 2,417,686; Mar. 18.
- Hugin, Adolph C., Schenectady, N. Y., assignor to General Electric Company. Dynamoelectric machine. 2,419,837; Apr. 29.
- Hukill, Henry D., assignor to Bendix Aviation Corporation, South Bend, Ind. Power steering mechanism. 2,429,183; Oct. 14.
- Hulbert, Edwin F., Watertown, Wis., assignor to Somerville Limited, London, Ontario, Canada. Fiber container and making the same. 2,415,173; Feb. 4.
- Hulburt, George D., assignor to Twentieth Century-Fox Film Corporation, Los Angeles, Calif. Nail straightening machine. 2,416,832; Mar. 4.
- Hull, Charles E., Newark, N. J. Sound amplifying means for stringed musical instruments of the violin family. 2,430,717; Nov. 11.
- Hull, David C., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Oxidation of lower aliphatic alcohols. 2,425,878; Aug. 19.
- Hull, David C., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Oxidation of alcohols. 2,425,879; Aug. 19.
- Hull, David C., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Oxidation of lower aliphatic alcohols. 2,425,880; Aug. 19.
- Hull, David C., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Oxidation of lower aliphatic alcohols. 2,425,881; Aug. 19.
- Hull, David C., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Oxidation of lower aliphatic alcohols. 2,425,882; Aug. 19.
- Hull, David C., Oak Ridge, Tenn., assignor of one-half to Air Reduction Company, Incorporated, New York, N. Y. Continuous process of producing aldol. 2,428,846; Oct. 14.
- Hull, David C., Oak Ridge, and A. H. Agett, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Preparing acetone and acetate esters. 2,422,016; June 10.
- Hull, David C., Oak Ridge, and A. H. Agett, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Preparing enol esters of aldehydes. 2,422,079; June 24.
- Hull, David C., and A. H. Agett, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Production of neutral esters of phosphoric acid. 2,430,569; Nov. 11.
- Hull, Denison B., Winnetka, Ill. Fastening device. 2,418,410; Apr. 1.
- Hull, Eleanor H., New York, N. Y. Shoulder pad construction. 2,423,498; July 8.
- Hull, George A., Detroit, Mich. Back water trap for drains. 2,431,399; Nov. 25.
- Hull, Harvard L., Garden City, W. C. Hartman, Bohemia, and R. C. Goertz, Hempstead, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Handle control system. 2,414,102; Jan. 14.
- Hull, Henry E., and E. C. Hartley, assignors to The Parker Appliance Company, Cleveland, Ohio. Machine for beading or flanging tubes. 2,417,202; Mar. 11.
- Hull, Richard O., Lakewood, and R. A. Hoffman, Euclid, Ohio, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Electroplating nickel. 2,417,203; Mar. 11.
- Hull, Vera B., administratrix: See—  
Bull, William C.
- Hull, Wayland E., Dayton, Ohio. Respiroscope. 2,431,328; Nov. 25.
- Hulsberg, Herbert A.: See—  
Bogen, John S., and Hulsberg.
- Hulsberg, Herbert A., Hinsdale, assignor to Universal Oil Products Company, Chicago, Ill. Fluid pump. 2,428,912; Oct. 14.
- Hulse, George E., New Haven, Conn., assignor to The Safety Car Heating and Lighting Company, Inc. Centrifugal disk mill with adjustable impactor. 2,428,670; Oct. 7.
- Hulse, George E., New Haven, Conn., assignor to The Safety Car Heating and Lighting Company, Inc. Elevator boot construction. 2,433,697; Dec. 30.
- Hulse, Marion G., Minneapolis, Minn. Combined puppet and doll. 2,433,555; Dec. 30.
- Hulslander, Harley A., Sr., Washington's Crossing, N. J. Adhesive coated product. 2,417,497; Mar. 18.
- Hulst, George D., Jr.: See—  
Shmurak, Benjamin, and Hulst.
- Hulst, George D., Jr., Millburn, N. J., assignor to Radio Corporation of America. Count selector. 2,428,913; Oct. 14.
- Hulst, George D., Jr., Upper Montclair, N. J., assignor to Radio Corporation of America. Radio navigation system. 2,430,570; Nov. 11.
- Hulst, George D., Jr., Upper Montclair, N. J., and E. Schoenfeld, Mamaroneck, and G. Mountjoy, Manhasset, N. Y., assignors to Radio Corporation of America. Radio navigation system. 2,432,158; Dec. 9.
- Hultgren, Rudolph C., assignor to General Luminescent Corporation, Chicago, Ill. Low-temperature luminescent lamp. 2,425,697; Aug. 12.
- Hultgren, Tage S., assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Device for indicating the last item of a telephone number dialed. 2,413,974; Jan. 7.
- Hultin, Oscar H., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Paper carton having combined top closure and pouring spout. 2,417,498; Mar. 18.
- Hultquist, Martin E.: See—  
Northey, Elmore H., and Hultquist.
- Hultquist, Martin E., and E. H. Northey, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. N-Benzoyl sulfonamide. 2,423,976; July 15.
- Hultsch, Ray, Melrose Park, Ill. Pants hanger. 2,422,732; June 24.
- Humber Limited, assignee: See—  
Burge, John E. P.
- Hume, Horace D., Mendota, Ill. Harvester support mechanism. 2,413,873; Jan. 7.
- Hume, Horace D., Mendota, Ill. Shoe for cutter bars. 2,429,318; Oct. 21.
- Hume, William C., Willow Grove, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Steam electric iron. 2,418,511; Apr. 8.
- Hume, William C., Willow Grove, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Steam iron. 2,433,556; Dec. 30.
- Humer, Frank, assignor to General Motors Corporation, Detroit, Mich. Deck lid handle and lock. 2,423,937; July 15.
- Hummel, Max, New York, N. Y. Casting machine. 2,414,466; Jan. 21.
- Humphrey, Harvey J., Cleveland, Ohio. Safety brake for roller coasters. 2,422,416; June 17.
- Humphrey, Hiram B., Washington, D. C. Safety primer for blasting. 2,425,741; Aug. 19.
- Humphrey, Robert G.: See—  
Ehrhardt, Robert A., and Humphrey.
- Humphreys & Glasgow Limited, assignee: See—  
Smith, Joseph H.
- Humphreys Investment Company, The, assignee: See—  
Humphreys, Ira B.



- Humphreys, Ira B., assignor to The Humphreys Investment Company, Denver, Colo. Helical chute concentrator and concentration practiced thereby. 2,431,559; Nov. 25.
- Humphreys, Ira B., assignor to The Humphreys Investment Company, Denver, Colo. Helical chute concentrator. 2,431,560; Nov. 25.
- Humphreys, Marion W., Euclid, assignor to The Ohio Rubber Company, Willoughby, Ohio. Boat. 2,415,495; Feb. 11.
- Humphreys, Robert L.: *See*—  
Farrington, Bruce B., Humphreys, and MacDonald.
- Humpola, Frank J., Rosenberg, Tex. Tie and collar stay. 2,423,776; July 8.
- Hunau, Lillian, Brooklyn, N. Y. Brassière. 2,417,687; Mar. 18.
- Hunau, Lillian, Brooklyn, N. Y. Brassière. 2,421,561; June 3.
- Hungerbühler, August, Zug, and W. Labhardt, Zurich, assignors to Landis & Gyr, A. G., Zug, Switzerland. Permanent brake magnet for electricity meters. 2,418,261; Apr. 1.
- Hunn, James V.: *See*—  
Arvin, James A., and Hunn.
- Hunt, Charles M., Fort Wayne, assignor of one-half to J. E. Quinlan, Monroeville, Ind. Lock joint for fishing rods. 2,423,319; July 1.
- Hunt, Gerald R., Riverside, Calif. Connection for well equipment. 2,421,945; June 10.
- Hunt, Gordon, Parkersburg, W. Va. Guard for heel strippers. 2,419,644; Apr. 29.
- Hunt, James R., New Vienna, Ohio. Oil filter. 2,415,246; Feb. 4.
- Hunt, John B., Penylan, Cardiff, Wales. Brake adjuster. 2,428,023; Oct. 14.
- Hunt, Joseph A., and A. E. Moreillon, assignors to The Heywood Compressor Company Limited, Redditch, England. Gas compressor. 2,430,401; Nov. 4.
- Hunt, Leslie E., Bay City, Mich. Lamp protector. 2,417,364; Mar. 11.
- Hunt, Richard H., Jr., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Finishing plastic compositions. 2,422,017; June 10.
- Hunt, Robert E.: *See*—  
Wilcox, Earl D., and Hunt.
- Hunt, Russell A., Jr., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Lubricant. 2,420,953; May 20.
- Hunt, Stanley T., and F. W. F. Goffe, Northampton, assignors to Express Lift Company, Ltd., London, England. Step-by-step actuator for electromagnetic switches. 2,428,569; Oct. 7.
- Hunt, Walter L., assignor to Automatic Temperature Control Co., Inc., Philadelphia, Pa. Timing device. 2,414,467; Jan. 21.
- Hunt, William E., Milford, assignor to United Aircraft Corporation, East Hartford, Conn. Rotary wing structure. 2,420,174; May 6.
- Hunt, William H.: *See*—  
Savdra, Charles M., and Hunt.
- Hunter, Byron A.: *See*—  
Howland, Louis H., and Hunter.  
Paul, Philip T., and Hunter.
- Hunter, Edward, Northwich, England, assignor to Imperial Chemical Industries Limited. Purification and compression of ethylene. 2,432,423; Dec. 9.
- Hunter Engineering Co., assignee: *See*—  
Hunter, Joseph L.
- Hunter, Frank B., La Canada, Calif., assignor to Adel Precision Products Corp. Seal for pistons and the like. 2,427,787; Sept. 23.
- Hunter, George D., Rocky Mount, N. C. Rotary pump. 2,422,901; June 24.
- Hunter, James H., and A. H. Nathan, assignors to The Upjohn Company, Kalamazoo, Mich. 2-(p-aminobenzene-sulfonamido)-4-hydroxy-5,6,7,8-tetra-hydroquinazoline. 2,425,326; Aug. 12.
- Hunter, John N., assignor to The Pyrene Company Limited, Brentford, England. Fire-foam producing apparatus. 2,414,260; Jan. 14.
- Hunter, Joseph L., assignor to Hunter Engineering Co., Riverside, Calif. Bottom rail assembly for Venetian blinds. 2,421,505; June 3.
- Hunter, Joseph L., assignor to Hunter Engineering Co., Riverside, Calif. Cord lock for Venetian blinds. 2,423,977; July 15.
- Hunter, Joseph L., assignor to Hunter Engineering Co., Riverside, Calif. Head rail and mounting bracket for Venetian blinds. 2,423,978; July 15.
- Hunter, Melmoth W., Lorain, Ohio. Token or like dispensing device. 2,431,121; Nov. 18.
- Hunter, Melvin J., H. J. Fletcher, and C. C. Currie, Midland, Mich., assignors to The Dow Chemical Company. Alkoxy end-blocked siloxanes and making same. 2,415,389; Feb. 4.
- Hunter, Paul B., Basking Ridge, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Apparatus for controlling missiles in flight. 2,414,103; Jan. 14.
- Hunter, Willson H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Inflatable shoe for aircraft. 2,418,262; Apr. 1.
- Hunter, Willson H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Inflation apparatus for ice removing mechanism. 2,422,624; June 17.
- Hunter, Willson H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Aerodynamic brake. 2,428,936; Oct. 14.
- Hunter, Willson H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Counter-rotating propeller assembly. 2,429,061; Oct. 14.
- Hunter, Willson H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Expander. 2,431,937; Dec. 2.
- Hunter, Willson H., Lakewood, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Inflation apparatus for eliminating ice from airfoils. 2,420,137; May 6.
- Hunter, Willson H., and W. C. Green, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Ice removing covering for aircraft. 2,421,621; June 3.
- Hunting, Roy W., assignee: *See*—  
Shuford, Edward L.
- Huntley, Charles N., University Heights, and J. A. Campbell, Willoughby, Ohio, assignors to General Electric Company. Leading-in wire. 2,427,727; Sept. 23.
- Huntsberry, Harlan E., Washington, D. C. Resilient tire. 2,421,330; May 27.
- Hurban, Wendell J., Cleveland, Ohio. Signal for rural mail boxes. 2,428,423; Oct. 7.
- Hurd Corporation, assignee: *See*—  
Zahn, George G.
- Hurd, Dallas T., Schenectady, N. Y., assignor to General Electric Company. Preparation of alkenyl-substituted chlorosilanes. 2,420,912; May 20.
- Hurd, Dallas T., Schenectady, N. Y., assignor to General Electric Company. Preparation of alkylhalogenosilanes. 2,427,605; Sept. 16.
- Hurd, Frank W., New York, N. Y., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Chromium compound. 2,415,950; Feb. 18.
- Hurd, Ira S.: *See*—  
Radford, George S., and Hurd.
- Hurd, Loren C., Jenkintown, and W. L. Van Horne, assignors to Röhm & Haas Company, Philadelphia, Pa. Stable, gelling, acidic hydrous silicates. 2,431,481; Nov. 25.
- Hurlburt, Wilbur F., South Orange, N. J. Timing relay. 2,414,305; Jan. 14.
- Hurlbut, Gordon K.: *See*—  
Ward, Vincent S., and Hurlbut.
- Hurley, Samuel C., Jr., assignee: *See*—  
Angell, Charles H.  
Gieseke, Werner A.
- Hurley, Samuel C., Jr., Danville, Ill. Photoelectric sizing mechanism. 2,415,174; Feb. 4.
- Hurley, Samuel C., Jr., Danville, Ill. Photoelectric gauging of flexible tubular casings. 2,415,175; Feb. 4.
- Hurley, Samuel C., Jr., Danville, Ill. Photoelectric apparatus for scanning rounds. 2,415,176; Feb. 4.
- Hurley, Samuel C., Jr., Danville, Ill. Apparatus for photoelectric caming. 2,415,177; Feb. 4.
- Hurley, Samuel C., Jr., Danville, Ill. Photoelectric inspection of rounds. 2,415,178; Feb. 4.
- Hurley, Samuel C., Jr., Danville, Ill. Photoelectric inspection device. 2,415,179; Feb. 4.
- Hurley, Samuel C., Jr., Danville, Ill. Welder's helmet. 2,423,320; July 1.
- Hurley, Samuel C., Jr., Danville, Ill. Photoelectrically controlled light polarizing element. 2,423,321; July 1.
- Hurley, Samuel C., Jr., Danville, Ill. Vehicular light control device having polarizing elements. 2,423,322; July 1.
- Hurley, Samuel C., Jr., Danville, Ill. Photoelectric apparatus for measuring the diameter of an inflated flexible casing. 2,433,557; Dec. 30.
- Hurley, Samuel C., Jr., Danville, Ill. Inspection of annular objects. 2,433,558; Dec. 30.
- Hurley, Samuel C., Jr., Danville, Ill. Hopper controller for uniformly feeding unit articles. 2,433,560; Dec. 30.
- Hürimann, Hans, Wil, Switzerland. Tractor drawn plow. 2,429,463; Oct. 21.
- Hurn, Francis J., Cricklewood, London, England, assignor to S. Smith & Sons (England) Limited. Instrument panel for motor cars and other vehicles. 2,423,597; July 8.
- Huron Milling Company, Inc., assignee: *See*—  
Hagedon, Charles V.
- Hurst, Edward: *See*—  
Bennett, Tom, and Hurst.
- Hurst, George L., San Francisco, Calif. Valve controlled rotary hopper bag filling machine and method. 2,418,263; Apr. 1.
- Hurst, Gordon F., Burlingame, Calif. Diverter valve. 2,415,285; Feb. 4.
- Hurst, Gordon F., San Jose, Calif. Foam nozzle. 2,423,650; July 8.
- Hurst, Samuel, Boston, Mass. Plastic ear muff. 2,420,245; May 6.
- Hurst, William M., Douglaston, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Antenna system. 2,433,698; Dec. 30.
- Hurt, Victor H., Cranston, R. I., assignor to United States Rubber Company, New York, N. Y. Watertight bag. 2,423,889; July 15.



- Hurt, Victor H., Cranston, R. I., assignor to United States Rubber Company, New York, N. Y. Collapsible inflating device. 2,423,890; July 15.
- Hurxthal, Alpheus O., Wyncote, assignor to Proctor & Schwartz, Inc., Philadelphia, Pa. Preboarding machine. 2,419,645; Apr. 29.
- Huse, Herbert W., Swarthmore, Pa., C. R. Faust, and T. L. Leininger, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Composite filtering medium and filtering. 2,416,524; Feb. 25.
- Husek, Helen P.: *See*—  
Barnes, Arthur, and Husek.
- Hussey, James B., assignee: *See*—  
McLaughlin, Howard J.
- Hussey, Vinton A., Augusta, Maine. Fountain shaving brush with hand-feed valve. 2,425,474; Aug. 12.
- Hussman-Ligonier Company, assignee: *See*—  
Davis, Russell E.
- Hussong, Ralph V.: *See*—  
Horneaman, H. C. Hussong, Quam, and Hammer.
- Husted, George E., San Francisco, Calif. Connecting rod. 2,430,176; Nov. 4.
- Huston, James L., Arcanum, Ohio. Fishing float. 2,415,692; Feb. 11.
- Huston, Kenneth M., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrolytically cleaning and plating conductors consisting principally of copper. 2,422,902; June 24.
- Huston, Kenneth M., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Process for electrolytically treating stainless steel articles. 2,422,903; June 24.
- Huston, Kenneth M., and V. A. Rayburn, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Electrolytic production of alloy coatings. 2,424,173; July 15.
- Huszagh, Ralph D., Chicago, Ill. Time switch device. 2,429,690; Oct. 28.
- Huszár, Kálmán Z., Cincinnati, Ohio. Rod mill with material recirculation means. 2,429,627; Oct. 28.
- Hutaff, George H., Jr., Wilmington, N. C. Bottle cap and remover therefor. 2,426,101; Aug. 19.
- Hutaff, George H., Jr., Wilmington, N. C. Cap for glass bottles. 2,426,102; Aug. 19.
- Hutchins, George V., North Hero, Vt. Mop wringer. 2,417,416; Mar. 18.
- Hutchins, Roy E., Jr., Raymond, N. H. Egg cleaning machine. 2,419,933; May 6.
- Hutchinson, George D.: *See*—  
Matlack, Thomas M., and Hutchinson.
- Hutchinson, Gilbert E., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Treatment of steel articles. 2,418,935; Apr. 15.
- Hutchinson, Gilbert E., Bridgeport, Conn., and A. A. Johnson, Wilmington, Del., assignors to Remington Arms Company, Inc., Bridgeport, Conn. Target manufacture. 2,418,936; Apr. 15.
- Hutchinson, Job, Great Neck, N. Y. Portable clothes-washing machine. 2,430,769; Nov. 11.
- Hutchinson, Philip H., Montclair, N. J., assignor to General Motors Corporation, Detroit, Mich. Honing machine. 2,433,455; Dec. 30.
- Hutchinson, Richard, Woodbridge, N. J. Punch press mechanism. 2,431,482; Nov. 25.
- Hutchinson, Volney A., assignor to Teletype Corporation, Chicago, Ill. Induction heating apparatus with rotatable work conveyor. 2,422,417; June 17.
- Hutchinson, William M., Homewood, and C. Kerr, Jr., Edgewood, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Precipitation system. 2,414,528; Jan. 21.
- Hutchinson, Willis S., St. Paul, Minn., assignor to General Mills, Inc. Preparation of nitrogen trichloride. 2,428,331; Sept. 30.
- Hutchinson, Willis S., St. Paul, and R. I. Derby, Minneapolis, Minn., assignors to The Mathieson Alkali Works, Inc., New York, N. Y. Bread improver. 2,426,736; Sept. 2.
- Hutchison, Miller R., New York, N. Y., assignor, by mesne assignments, to R. G. Luff, Philadelphia, Pa. Laminated photographic material and process for producing the same. 2,418,303; Apr. 1.
- Hutchison, Miller R., New York, N. Y., assignor, by mesne assignments, to R. G. Luff, Philadelphia, Pa. Adhesive photosensitive material. 2,418,304; Apr. 1.
- Hutchison, Miller R., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Camera shutter. 2,422,018; June 10.
- Hutchison, Miller R., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Blade and cover blind shutter. 2,423,706; July 8.
- Hutchison, Miller R., Jr., and H. H. Harmon, assignors to Eastman Kodak Company, Rochester, N. Y. Sliding shutter for cameras. 2,418,644; Apr. 8.
- Hutchison, Miller R., Jr., and A. L. Wehr, assignors to Eastman Kodak Company, Rochester, N. Y. Inexpensive camera shutter. 2,420,597; May 13.
- Huthsing, Charles K., Grosse Pointe Farms, Mich. Making recoil preventing nozzles. 2,421,887; June 10.
- Hutsell, Clifford S., Seattle, Wash. Beer meter. 2,420,708; May 20.
- Hutson, Canfield: *See*—  
Bludworth, Joseph E., and Hutson.
- Hutto, Marsden C., assignor to Vinco Corporation, Detroit, Mich. Honing method and apparatus. 2,422,418; June 17.
- Hutton, Alvin C.: *See*—  
Chapman, Arthur B., and Hutton.
- Hutton, Paul C., Washington, D. C. Mechanical power unit. 2,420,825; May 20.
- Huye, Joseph G., New Orleans, La. Chick box. 2,417,302; Mar. 11.
- Huyett, Daniel D., assignor to Atlas Powder Company, Wilmington, Del. Electric explosion initiator. 2,431,871; Dec. 2.
- Hvale, James L., assignor to Ekco Products Company, Chicago, Ill. Pressure cooker cover fastener. 2,423,559; July 8.
- Hyatt, Charles S., and H. H. Brooks, assignors to Columbus Coated Fabrics Corporation, Columbus, Ohio. Fabric tube. 2,424,315; July 22.
- Hyblinette and Cary, assignee: *See*—  
Cary, Francis C.
- Hybinette, Sven E., and Cary.
- Hybinette, Sven E., assignee: *See*—  
Cary, Francis C.
- Hybinette, Sven E., and F. C. Cary, assignors to Hybinette and Cary, Wilmington, Del. Thermal reduction of metals. 2,426,148; Aug. 19.
- Hyde, Edward C., Chicago, Ill. Bicycle holding bracket for automobiles. 2,415,286; Feb. 4.
- Hyde, George G., Darien, Conn., assignor to Crucible Steel Company of America, New York, N. Y. Conveyor mechanism. 2,413,767; Jan. 7.
- Hyde, George J.: *See*—  
Sampson, Frederick W., and Hyde.
- Hyde, James F., assignor to Corning Glass Works, Corning, N. Y. Liquid polymeric phenylalkylsiloxanes. 2,432,665; Dec. 16.
- Hyde, Thomas E., Raleigh, N. C. Precision divider. 2,413,768; Jan. 7.
- Hyde, Walter L.: *See*—  
Billings, Bruce H., Hyde, and Barr.
- Hydraulic Brake Company, assignee: *See*—  
Miller, Raymond J.
- Hydraulic Control Engineering Company, assignee: *See*—  
Stephens, William T.
- Hydraulic Development Corporation, Inc., The, assignee: *See*—  
Becker, Walter.  
Flowers, Paul E.  
Kaser, Robert A.  
Muller, Johan A.  
Muller, Johan A., and Tucker.  
Tucker, Warren R.  
Waldie, George A.  
Waldie, George A., and Muller.
- Hydraulic Engineering Company Limited, The, assignee: *See*—  
Mangnall, Arthur R.
- Hydraulic Impact Tool Company, assignee: *See*—  
Warren, Charles F.
- Hydronapthene Corporation, assignee: *See*—  
Gündel, Wolfgang, and Götfe.
- Hydropress, Incorporated, assignee: *See*—  
Katz, Francis.  
Landesberg, Nathan.
- Hygeia Nursing Bottle Company, Inc., assignee: *See*—  
Ganson, Howard H.
- Hygrade Sylvania Corporation, assignee: *See*—  
Thomas, Ralph B.
- Hyland, James L., assignor to Republic Steel Corporation, Cleveland, Ohio. Hot metal mixer. 2,424,535; July 22.
- Hyland, John J., Brooklyn, and W. J. Muldoon, Hempstead, assignors to Control Instrument Company, Inc., Brooklyn, N. Y. Electromagnetic sound translating device. 2,432,424; Dec. 9.
- Hyland, William A., and R. R. Borngraeber, assignors to The Van Brunt Manufacturing Company, Horicon, Wis. Soil pulverizer and seeder. 2,418,937; Apr. 15.
- Hyland, William A., and E. E. Schnell, assignors to The Van Brunt Manufacturing Company, Horicon, Wis. Cultivator lift mechanism. 2,429,552; Oct. 21.
- Hyland, William A., Horicon, and J. H. Starr, Mayville, assignors to The Van Brunt Manufacturing Co., Horicon, Wis. Power lift for agricultural implements. 2,432,897; Dec. 16.
- Hyler, Loeil L., assignor to La Plant-Choate Manufacturing Co., Inc., Cedar Rapids, Iowa. Adapter for earth moving apparatus. 2,430,770; Nov. 11.
- Hyman, Benjamin M.: *See*—  
Johnson, Arnold E. W., and Hyman.
- Hyman, Frank W., New York, N. Y. Making laminated structures. 2,425,805; Aug. 19.
- Hyman, Sidney, New York, N. Y. Photo and match bookholder with secret pocket. 2,431,561; Nov. 25.
- Hyneman, Louis H.: *See*—  
Taurman, Alphonso, and Hyneman.
- Hyner, Jacob: *See*—  
Webersinn, Theodore H., and Hyner.
- Hynes, Lee P., Haddonfield, N. J. Apparatus for heating oil and other fluid media. 2,421,562; June 3.
- Hynes, Lee P., Haddonfield, N. J. Electric water heater. 2,423,598; July 8.



- Hynson, Westcott & Dunning, Incorporated, assignee: *See—*  
 Brewer, John H.  
 Felton, Lloyd C.
- Hyre, Edgar D., Dayton, Ohio. Electrically heated shoulder pad. 2,432,159; Dec. 9.
- Hyster Company, assignee: *See—*  
 Bolze, Ernest M.  
 Johnson, George V.
- Hytron Corporation, assignee: *See—*  
 Corson, Bayard R.
- I-T-E Circuit Breaker Company, assignee: *See—*  
 Alleva, William, and Blackburn.  
 Caswell, Arthur S.  
 Graves, Herbert C., Jr.  
 Jensen, Otto.  
 Pokorny, Frank J.  
 Schymik, Walter H.  
 Scott, William M., Jr.
- Iager, Raymond F., Fanwood, and C. C. Hamilton, Plainfield, assignors to The Babcock & Wilcox Company, Jersey City, N. J. Vapor generating plant. 2,431,177; Nov. 18.
- Iams, Harley A., Princeton, N. J., assignor to Radio Corporation of America. Lens for radio frequency waves. 2,415,352; Feb. 4.
- Iams, Harley A., Princeton, N. J., assignor to Radio Corporation of America. Radio viewing system. 2,419,024; Apr. 15.
- Ice Air Conditioning Co. Inc., assignee: *See—*  
 Garfield, Edward L.
- Ice Cooling Appliance Corporation, assignee: *See—*  
 Watson, Kermit K.
- Ichniowski, Casimir T.: *See—*  
 Thompson, Marvin R., Acousti, and Ichniowski.
- Ickis, Lynn S., Jr.: *See—*  
 Haynes, Howard, and Ickis.
- Ideal Industries, Inc., assignee: *See—*  
 Cunny, Walter F., and King.  
 James, Gerald W.
- Ideal Novelty & Toy Co., assignee: *See—*  
 Baggott, Edmund W.  
 Stelz, Frank F.
- Ifield, Richard J.: *See—*  
 Watson, Ernest A., and Ifield.
- Ifield, Richard J., Ealing, London, assignor to Joseph Lucas Limited, Birmingham, England. Pressure governor for pumps. 2,424,035; July 15.
- Iglehart, Richard S.: *See—*  
 Pruitt, Rodman C., Fowle, and Iglehart.
- Ikawa, Miyoshi: *See—*  
 Stahmann, Mark A., Ikawa, and Link.
- Ilford Limited, assignee: *See—*  
 Chilton, Leonard V., Kendall, and Phillips.  
 Collins, Ronald B., and Dickinson.  
 Dimsdale, Wilfrid H., and Robinson.  
 Fry, Douglas J., and Brooks.  
 Hart, John A. H., and Lee.  
 Kendall, John D.  
 Kendall, John D., and Fry.  
 Nicholson, Ernest E., and Collins.  
 Stein, Oswald.
- Ilg Electric Ventilating Company, assignee: *See—*  
 Cucci, Victor J.
- Iker, Elmer C., Wilmette, and D. O. Schwennessen, Chicago, Ill., assignors to Essex Wire Corporation. Transformer bushing. 2,417,552; Mar. 18.
- Ille, Floyd W., assignee: *See—*  
 Beyrodt, Kurt.
- Ille, Floyd W., Manhasset, N. Y. Therapeutic bath. 2,417,499; Mar. 18.
- Illinois Glove Company, assignee: *See—*  
 Anderson, Scott.
- Illinois Lock Company, assignee: *See—*  
 Dequick, Henry J.  
 Gray, Raymond K.
- Illinois Railway Equipment Company, assignee: *See—*  
 Johnson, Malcolm S.
- Illinois Tool Works, assignee: *See—*  
 O'Connor, John B.  
 Poupitch, Ougljesa J.
- Illmer, Louis, Cortland, N. Y. Reel drive control for grinder machines. 2,424,465; July 22.
- Ilsen, Lawrence, Jackson Heights, N. Y. Earring mounting. 2,432,763; Dec. 16.
- Imberman, Jonas F., Los Angeles, Calif. Work folding attachment for sewing machines. 2,430,339; Nov. 4.
- Imbriani, Louis, assignor to Frances Speier, doing business as Knitcraft Mills, Corona, Long Island, N. Y. Knit fabric. 2,432,898; Dec. 16.
- Imes, Harry B., deceased, Louisville, Ky.; Mary W. Imes, executrix. Trestle leg assembly. 2,419,778; Apr. 29.
- Imes, Mary W., executrix: *See—*  
 Imes, Harry B.
- Imhof, Herman A.: *See—*  
 Robinson, Charles A., and Imhof.
- Imhoff, Carroll E.: *See—*  
 Pankey, Thomas L., and Imhoff.
- Immediata, Tony M.: *See—*  
 Moore, Maurice L., and Immediata.
- Immel, Ralph B., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electromagnetic contactor. 2,414,468; Jan. 21.
- Immel, Ralph B., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Shockproof electromagnetic device. 2,417,758; Mar. 18.
- Immel, Ralph B., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Shockproof electromagnetic contactor. 2,432,899; Dec. 16.
- Imperial Brass Manufacturing Company, The, assignee: *See—*  
 McIntosh, Robert D.
- Imperial Chemical Industries Limited, assignee: *See—*  
 Basford, Frederick R., Coates, Heilbron, and Cook.  
 Beech, Walter F., and Mendoza.  
 Bremner, John G. M., and Jones.  
 Bremner, John G. M., Jones, and Taylor.  
 Brookman, Ernest F., and Pearce.  
 Buckley, Gerard D., and Heath.  
 Buckley, Gerard D., and Piggott.  
 Buist, Jack M., Harper, Smith, and Welding.  
 Caldwell, Walter A., and Ashcroft.  
 Chapman, James, and Crawford.  
 Clark, Leslie M., and Robinson.  
 Collie, Benjamin, Giles, and Wilkinson.  
 Cook, James G., Harper, Reynolds, and Smith.  
 Cook, James G., and Seymour.  
 Cosway, Richard.  
 Curd, Francis H. S., Raison, and Rose.  
 Curd, Francis H. S., and Rose.  
 Davies, William H., and Johnson.  
 Denny, Patrick W.  
 Furness, Will, Perrins, and Smith.  
 Gleave, Wilfred W.  
 Goodings, Eric P., and Rogers.  
 Gray, James J., and Burgess.  
 Haggood, Bernard J., Harper, and Reynolds.  
 Haddock, Norman H., Jones, Parkinson, and Rowe.  
 Haddock, Norman H., Parkinson, and Rowe.  
 Haddock, Norman H., and Wood.  
 Hawkins, Peter A., and Bennett.  
 Hunter, Edward.  
 Jones, Elwyn, and Flanders.  
 Jones, Ewart R. H., and McCombie.  
 Lean, Owen B., and Brian.  
 Levi, Alfred A.  
 Lodge, Frank.  
 McCreath, David.  
 McGeoch, Sarah N.  
 McGill, John H., and Morgan.  
 Metcalfe, Thomas P.  
 Myles, James R., and Garner.  
 Parry, Edryd G.  
 Payn, Russell C., Jones, and Flanders.  
 Reynolds, Peter W., Taylor, and Bremner.  
 Rogers, Maurice A. T.  
 Rose, Francis L.  
 Rout, Alfred E.  
 Rushmer, Arnold, and Smith.  
 Smith, Arthur E. W., and Scaife.  
 Smith, Arthur E. W., Scaife, and Stanley.  
 Smith, Arthur E. W., Stanley, and Scaife.  
 Tatum, William W.  
 Taylor, James, and Wright.  
 Thomson, Robin H. K.  
 Thomson, Robin H. K., and Swift.  
 Traill, David, and McLean.  
 Walmesley, Robert A.  
 Wright, Harold R., and Donaldson.
- Improved Carloading Company, assignee: *See—*  
 Nalbandian, Peter.
- Imshaug, Henry: *See—*  
 Eppenbach, Edwin G., and Imshaug.
- Independent Grinding Wheel Company, assignee: *See—*  
 Wilson, Cecil E.
- Independent Lock Company, assignee: *See—*  
 Nehls, Charles H.
- Independent Pneumatic Tool Company, assignee: *See—*  
 Fosnot, Louis P.  
 Mitchell, Walter G.
- Indian Motorcycle Company, assignee: *See—*  
 Du Pont, Stephen.
- Indiana Farm Bureau Co-Operative Association, Inc., assignee: *See—*  
 Truax, Harry.
- Indiana Steel Products Company, The, assignee: *See—*  
 Greenwell, Everett N.  
 Schumacker, Walter J.
- Indiana Steel & Wire Company, assignee: *See—*  
 Kitzelman, Harry L., and Holmes.
- Induction Heating Corp., assignee: *See—*  
 Finger, Armin A.
- Industrials, assignee: *See—*  
 Pojman, Joseph L.
- Industrial Development Corporation of South Africa, Limited, assignee: *See—*  
 Totney, Frank.
- Industrial Gloves Company, assignee, et al.: *See—*  
 Seidel, Robert.
- Industrial Management Corporation, assignee: *See—*  
 Spaulding, Graydon C.
- Industrial Patents Corporation, assignee: *See—*  
 Black, Harold C., and Bollens.  
 David, Elmer M.  
 Davis, Elmer M.  
 Duff, Lloyd B.  
 Holloway, Donald F., and Young.



- Industrial Patents Corporation, assignee: *See*—Continued  
 Kellermann, Gustav J.  
 McKee, Harry H.  
 McKee, Harry H., Dziedzic, and Straeten.  
 Mortenson, Everett N.  
 Roth, Warren D., Brown, and Phelps.  
 Wales, Nathaniel B.  
 Williams, Beverly E.  
 Young, Harland H.  
 Young, Harland H., and Rubinstein.
- Industrial Rayon Corporation, assignee: *See*—  
 Burkholder, Alden H., Standley, and McLellan.  
 Kline, Hayden B., and Burkholder.  
 Kline, Hayden B., Burkholder, and Israel.  
 Kline, Hayden B., and McLellan.  
 McCormack, Alex A.  
 McLellan, Kenneth M.  
 Torrence, George P.
- Industrial Sewing Machine Service, assignee: *See*—  
 Campbell, Frank J.
- Industrial Sound Systems, Inc., assignee: *See*—  
 Gunnell, Robert W.
- Industrial Tape Corporation, assignee: *See*—  
 Buckley, Donald J., and Smith.  
 Morin, Louis H.  
 Morris, Vlon N.
- Industrial Wire Cloth Products Corporation, assignee: *See*—  
 Zech, Alfred.
- Inerto Company, The, assignee: *See*—  
 Joachim, Hans.
- Infantino, Benjamin P., Corona, Long Island, N. Y. Adjustable folding chair. 2,428,314; Sept. 30.
- Infilco, Incorporated, assignee: *See*—  
 Behrman, Abraham S., Gustafson, and Hesler.  
 Cox, John W., and Behrman.  
 Gillard, Herbert W.  
 Green, Walter H.  
 Green, Walter H., and Gillard.  
 Hesler, James C., and Behrman.  
 Hughes, Walter J.  
 Kahn, James M., and Kominek, Jr.  
 Nordell, Carl H.
- Ing, John W., assignor to G. A. Kelly Plow Company, Longview, Tex. Attachment for tractors. 2,425,806; Aug. 19.
- Ingalls, David, Westfield, assignor, by mesne assignments, to Titelux, Inc., Newark, N. J. Lead-in device for manifold of ignition harness. 2,420,138; May 6.
- Ingalls, John M., assignor to Cone Automatic Machine Company Inc., Windsor, Vt. Stock gripper with removable pads. 2,421,563; June 3.
- Ingels, Bert D., East Orange, assignor to Novadel-Agene Corporation, Belleville, N. J. Bleaching of wheat flour and like milled products. 2,433,611; Dec. 30.
- Ingels, Bert D., East Orange, assignor to Novadel-Agene Corporation, Belleville, N. J. Treatment of flour with carbon tetrachloride. 2,433,612; Dec. 30.
- Ingersoll, Henry G., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Process for obtaining clear films from ethylene polymers. 2,431,042; Nov. 18.
- Ingersoll Milling Machine Co., The, assignee: *See*—  
 Bowen, Earl M.  
 Ridgway, William F.
- Ingersoll-Rand Company, assignee: *See*—  
 Baker, Charles S.  
 Jimerson, Francis A.  
 McConaghy, James W.  
 Naab, Julius, and Ostwald.
- Ingham, William B., Maynard, Mass. Anchor chain link. 2,421,789; June 10.
- Inghram, Mark G.: *See*—  
 Nier, Alfred O. C., Ney, and Inghram.
- Ingle, Henry W., Windsor, assignor to Hartford-Empire Company, Hartford, Conn. Gauge for the rim or finish portions of jars or the like. 2,415,693; Feb. 11.
- Inglis, William S., Ridgewood, N. J., assignor to Curtiss-Wright Corporation. Sonic pump. 2,428,460; Oct. 7.
- Ingoldby, Maurice K., deceased, Tynemouth, by T. F. Clarke, Swanley, and P. W. Cole, Purley, executors, and J. H. Abbink-Spauk, Jesmond, Newcastle-on-Tyne 2, assignors to Vickers-Armstrongs Limited, London, England. Fire control or like apparatus for similar purposes. 2,422,197; June 17.
- Ingoldby, Maurice K., deceased, Tynemouth, by T. F. Clarke, Swanley, and P. W. Cole, Purley, executors, Johann Hermann Abbink-Spauk, Jesmond, Newcastle-on-Tyne 2, and A. Spencer, Benwell, Newcastle-on-Tyne 5, assignors to Vickers-Armstrongs Limited, London, England. Transmission system for the remote control of gun mountings and other bodies having like movements. 2,428,025; Sept. 30.
- Ingraham, Joseph S.: *See*—  
 Keil, Havard L., and Ingraham.
- Ingram, Joseph R., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Conversion of bi-guanide salts. 2,414,950; Jan. 28.
- Ingwer, Max, assignor to Consolidated Sewing Machine & Supply Co., Inc., New York, N. Y. Feed reverse and stitch regulating attachment for sewing machines. 2,426,506; Aug. 26.
- Ingwersen, Donald N., assignor to Sola Electric Co., Chicago, Ill. Electrical receptacle. 2,415,496; Feb. 11.
- Inhoffen, Hans H., Berlin-Wilmersdorf, and G. Zühlendorf, Berlin, N. 65, Germany, assignors to Schering Corporation, Bloomfield, N. J. Preparing 1,4 androstadienol-17-one-3 and its derivatives. 2,422,904; June 24.
- Inksetter, Robert J., Copetown, Ontario, Canada. Snow removal apparatus. 2,426,507; Aug. 26.
- Inland Container Corporation, assignee: *See*—  
 Ferguson, Kenneth C.
- Inland Steel Company, assignee: *See*—  
 Haig, Paul, Schillo, and Tompkins.  
 Surerus, Victor M.
- Inman, Louis H., assignor to Well Surveys, Incorporated, Tulsa, Okla. Commutator design. 2,432,966; Dec. 2.
- Inman, William H., assignor to Bloomer Bros. Company, Newark, N. Y. Container. 2,419,646; Apr. 29.
- Insky Manufacturing Corporation, assignee: *See*—  
 Ray, Fred B.
- Institute of Industrial Research, assignee: *See*—  
 Jones, Edward C.
- Institute of Paper Chemistry, The, assignee: *See*—  
 Reineck, Edward and Dunlap.  
 Wells, Sidney.
- Insulation Products, Limited, assignee: *See*—  
 Stuart, John C. K.
- Interchemical Corporation, assignee: *See*—  
 Armatus, Edward.  
 Ash, Harry K.  
 Auer, Laszlo.  
 Bernardi, Dominic J., and Florence.  
 Gans, David M., and Abrams.  
 Goepfert, Werner F.  
 Lee, Ernest D.  
 Moore, Samuel A., and Greenfield.  
 Opp, Carl.
- Interior, United States of America, as represented by the Secretary of, assignee: *See*—  
 Clemmer, Julius B., and Williams.  
 Coghill, William H., and Coe.  
 Ervin, Guy, Jr.  
 Kennedy, James S., and O'Meara.  
 McHenry, Douglas.  
 Orchin, Milton.  
 Parry, Vernon F.
- Interlock Patents Limited, assignee: *See*—  
 Bonser, Frank.
- International Braid Company, assignee: *See*—  
 Fraim, Freeman W.  
 Holm, Carl B.
- International Business Machines Corporation, assignee: *See*—  
 Ayres, Waldemar A.  
 Bailey, William J. A., and Panissidi.  
 Brand, Samuel.  
 Bryce, James W.  
 Buhler, Eugen.  
 Cox, Charles E.  
 Daly, George F.  
 Daly, George F., and Lake.  
 Dickinson, Arthur H.  
 Dickinson, Arthur H., and Wheeler.  
 Doty, Charles R.  
 Fitch, Clyde J.  
 Furman, Frank J., and Lamb.  
 Hamilton, Francis E., and Durfee.  
 Jackson, Carlton T.  
 Johnson, Reynold B.  
 Lake, Clair D., and Daly.  
 Lang, William.  
 Luhn, Hans P.  
 Manning, Clarence R.  
 Mills, Albert W., Furman, and Rabenda.  
 Nichols, Harry J.  
 Page, Ralph E.  
 Rabenda, Edward J., and Furman.  
 Rast, Frederick Q.  
 Rutbell, Clarence C., and Lusht.  
 Smith, Clarence C.
- International Cellucotton Products Company, assignee: *See*—  
 Deloye, James J.
- International Cigar Machinery Company, assignee: *See*—  
 Halstead, John F.
- International Derrick & Equipment Company, assignee: *See*—  
 Athy, Clifford R.  
 Konkle, Charles R.
- International Harvester Company, assignee: *See*—  
 Acton, Russel D.  
 Baker, David B., and Hagen.  
 Bechman, William O.  
 Blaydes, Frederick T.  
 Borgerd, William F., Majer, Knopp, and Bennett.  
 Borgerd, William F., and Palmer.  
 Cary, Philip E., Overholt, Johnson, and Borgerd.  
 Dreisin, Alexander.  
 Dreisin, Alexander, and Peterson.  
 Emerick, Willard E.  
 Evans, Arthur G.  
 Eves, Donald T., and Bowers.  
 Hipple, James L.  
 Huddle, Edwin F.  
 Johnson, Arnold E. W.  
 Johnson, Arnold E. W., and Hyman.  
 Judkins, George H.



International Harvester Company, assignee: *See—Continued*

Majer, Frank G.  
McIntyre, John H.  
McNamara, Gordon, Jr.  
Messenger, Robert P., and Johnson.  
Miller, Robert H.  
Morkoski, James.  
Mott, Carl W.  
Olson, William N.  
Orelind, John R.  
Orelind, John R., and Evans.  
Orelind, John R., and Morkoski.  
Pool, Stuart D., and Engvall.  
Raney, Russell R.  
Raney, Russell R., and Bornzin.  
Scarratt, Albert W.  
Schmied, William F.  
Selzer, John, and Johnson.  
Smith, Hiram P.  
Vandenbergh, Clarence E.  
Washburn, Frederick M., and Powell.

International Marine Radio Company, Limited, assignee: *See—*

Withey, Cuthbert George G.

International Mineral & Chemical Corporation, assignee: *See—*

Dorn, Herman W.  
Hoglan, Forest A.

International Mutoscope Corporation, assignee: *See—*

Pollack, Daniel.

International Nickel Company, Inc., The, assignee: *See—*

Griffiths, William T., and Pfeil.  
Kihlgren, Theodore E., and Lacy.  
Sproule, William K., and Harcourt.  
Sproule, William K., Harcourt, and Rose.  
Wallis, Albert E., and West.

International Plastic Corporation, assignee: *See—*

Schieman, Gustave.

International Plastic Harmonica Corporation, assignee: *See—*

Magnus, Finn H.

International Resistance Company, assignee: *See—*

Johnson, Esmond E.

International Standard Electric Corporation, assignee: *See—*

Barnard, Roy M., and Cooper.  
Bracke, Oscar J. J.  
Busignies, Henri G.  
Capen, William H.  
Chatterjea, Prafulla K., and Ambrose.  
Chatterjea, Prafulla K., and Houghton.  
Chatterjea, Prafulla K., and Scully.  
Cole, Reginald A. L.  
Cornu, Pierre L. C.  
Cronvall, Lars P.  
Deakin, Gerald.  
Deakin, Gerald, and Herbig.  
Deloraine, Edmond M., Labin, and Busignies.  
Den Hertog, Martinus.  
Den Hertog, Martinus, and Wright.  
Devaux, Lucien.  
De Vriendt, Charles.  
De Vriendt, Charles, and De Zeeuw.  
Earp, Charles W.  
Earp, Charles W., and Weston.  
Escande, Jean R. A.  
Gilliver, Gilbert.  
Gohorel, Fernand P.  
Hardy, René.  
Hardy, René J.  
Hartley, George C.  
Hatton, William.  
Herbig, Henry F.  
Heron, Amedee A. C.  
Herondelle, Guy L. M.  
Holland, John D., and Robinson.  
Hopgood, Roy C., Jr.  
Joly, Leon, and Andres.  
Jones, Elwyn T.  
Katchatouroff, Leon.  
Katchatouroff, Leon, and Lalande.  
Koechlin, Renaud.  
Labin, Emile.  
Lair, Julien J. B.  
Lehmann, Gerard J.  
Lévy, Maurice M.  
Maddock, Alan J.  
Mauge, Marcel R.  
McLarn, Ernest S.  
Moscrip, William R.  
New, Archibald A., Foord, and Beckwith.  
Newton, Geoffrey.  
Penet, Gabriel J. M.  
Platon, Edmond D. V.  
Pouliart, Willy.  
Reeves, Alec H.  
Richards, Edward A., Ellison, and Gray.  
Scully, Charles T., and Houghton.  
Searle, Arthur M.  
Simon, Stephane, Kruithof, and den Hertog.  
Stewart, Claudius F., and Penet.  
Tahon, Robert G.  
Terman, Frederick E.

International Standard Electric Corporation, assignee: *See—Continued*

Terry, Victor J., and Hargreaves.  
Theillaumas, Clement M.  
Touraton, Emile R.  
Towner, Stanley H.  
Van Laethem, Frans.  
Warner, Arthur J., and New.  
Willoughby, Eric O.  
Winkler, Gunnar.  
Wolfson, Henry, and Shepard.  
Yule, William H. D.  
Zellweger, Carl, and Durheim.

International Telephone & Radio Manufacturing Corporation, assignee: *See—*

Saslaw, Otto.

International Vehicular Parking, Ltd., assignee: *See—*

Herschede, Walter J., and W. F., and Woodroff.

International Vending Machine Corporation, assignee: *See—*

Leschin, Samuel.

Interstate Aircraft and Engineering Corp., assignee: *See—*

Sloan, Donald I.

Intertype Corporation, assignee: *See—*

Freund, Herman R.

Interval Instruments, Inc., assignee: *See—*

Rieber, Frank.

Interwoven Stocking Company, assignee: *See—*

Thurston, Paul L., and Welker.

Interwoven Stocking Company, assignee et al.: *See—*

Hilker, Harrison F., and Welker.  
Thurston, Paul L., Hilker, and Welker.

Invex Inc., assignee: *See—*

Craig, Palmer H., and Herman.

Ioannilli, Joseph R.: *See—*

Dixon, Paul H., and Ioannilli.

Iowa State College Research Foundation, assignee: *See—*

Fulmer, Ellis L., Underkofer, and Hickey.

Ipatieff, Vladimir N.: *See—*

Haensel, Vladimir, and Ipatieff.  
Linn, Carl B., and Ipatieff.  
Pines, Herman, and Ipatieff.  
Pines, Herman, Ipatieff, and Olberg.  
Schmerling, Louis, and Ipatieff.

Ipatieff, Vladimir N., and C. B. Linn, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of alkyl ketones to form condensation products thereof. 2,419,142; Apr. 15.

Ipatieff, Vladimir N., and H. Pines, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of monocyclic olefinic hydrocarbons. 2,420,749; May 20.

Ipatieff, Vladimir N., Chicago, and C. B. Linn, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Polymerization of olefinic hydrocarbons. 2,421,946; June 10.

Ipatieff, Vladimir N., and C. B. Linn, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Process for the production of trialkyl benzene. 2,425,096; Aug. 5.

Ipatieff, Vladimir N., and L. Schmerling, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Hydrogenation of halogenated hydrocarbons. 2,427,791; Sept. 23.

Ipatieff, Vladimir N., Chicago, and C. B. Linn, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Alkylation of aromatics. 2,428,279; Sept. 30.

Ipatieff, Vladimir N., and C. B. Linn, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Condensation of alkyl ketones in presence of aqueous ammonium halide solutions. 2,431,754; Dec. 2.

Ipatieff, Vladimir N., and H. Pines, assignors to Universal Oil Products Company, Chicago, Ill. Isomerization of cycloolefins. 2,431,755; Dec. 2.

Ipatieff, Vladimir N., and H. Pines, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of terpenic hydrocarbons. 2,431,756; Dec. 2.

Iraq Petroleum Company Limited, assignee: *See—*

Kelly, Frederick R.

Ireland, Murray, assignee: *See—*

Hendrickson, Fritz E.

Irish, Alfred J., and D. G. Lindsay, Sydney, assignors to Amalgamated Wireless (Australasia) Limited, Sydney, New South Wales, Australia. Voltage regulating circuits. 2,416,922; Mar. 4.

Irmischer, Hans O., East Hempstead, Long Island, assignor to National Urn Bag Co., Long Island City, N. Y. Wire staple former and stapling apparatus. 2,428,026; Sept. 30.

Iron Fireman Manufacturing Company, assignee: *See—*

Schweickart, William M.

Webb, Ernest C.

Irrgang, Louis J., Jersey City, N. J. Strain relief for electrical conductors. 2,420,826; May 20.

Irving, Walter E., assignee: *See—*

Barry, Richard J., and Lewis.

Irwin, Dwight M., Charlotte, N. C. Blanket bindings. 2,418,886; Apr. 15.

Irwin, Emmett M., San Marino, Calif. Flux measuring system. 2,418,553; Apr. 8.

Irwin, John, Jr., New York, N. Y. Thread, yarn, filament, and the like. 2,418,771; Apr. 8.

Irwin, William T.: *See—*

Lade, Frederick L., and Irwin.



- Isaac, Elmer B., Cleveland Heights, and F. J. Rippel, Cleveland, Ohio, assignors to General Electric Company. Base for electric lamps and similar devices. 2,418,179; Apr. 1.
- Isaacson, Bernard: *See*—  
Bichsel, Suzanne, and Isaacson.
- Isaacson, Carl A., St. Paul, Minn. Garment hanger. 2,425,475; Aug. 12.
- Isaacson, Herbert M., Buffalo, N. Y. Device for removing the tarnish from silver and the like. 2,421,027; May 27.
- Isabell, Robert C., and J. Sawdon, Port Huron, Mich. Replaceable cell storage battery. 2,415,694; Feb. 11.
- Isbell, Horace S., Washington, D. C., assignor to the Government of the United States. Treating sugar. 2,421,380; June 3.
- Isbell, William T., Herculanum, Mo., assignor to St. Joseph Lead Company, New York, N. Y. Refining of lead. 2,422,967; June 24.
- Isbister, Eric J.: *See*—  
Moseley, Francis I., Isbister, and Steinhäuser.
- Isbister, Eric J., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Distance and direction measuring apparatus. 2,414,469; Jan. 21.
- Isbister, Eric J., Brooklyn, N. Y., and F. L. Moseley, Chevy Chase, Md., assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Self-synchronous positional control system. 2,424,568; July 29.
- Isenberg, Alexander H., Woodside, and R. N. Hipp, Menlo Park, Calif.; said Hipp assignor to said Isenberg. Sheet metal bending rolls. 2,432,666; Dec. 16.
- Isenberg, Hans D., Wilmette, Ill. Weighing apparatus. 2,419,217; Apr. 22.
- Isenberg, Hans D., Wilmette, Ill. Method and apparatus for making air insulated cable. 2,421,268; May 27.
- Isenberg, Hans D., Wilmette, Ill. Force determining device. 2,426,396; Aug. 26.
- Iseron, Hyman: *See*—  
Bruson, Herman A., Niederhauser, and Iseron.
- Isgren, Elmer E., and N. Dirks, Peoria, Ill., assignors to R. G. Le Tourneau, Inc., Stockton, Calif. Conveyor for heat-treating apparatus. 2,419,559; Apr. 29.
- Isham, Robert M., Okmulgee, Okla., assignor to Danciger Oil & Refineries, Inc., Fort Worth, Tex. Electrolytic production of succinic acid from butyrolactone. 2,420,954; May 20.
- Isham, Robert M., Okmulgee, Okla., assignor to Danciger Oil & Refineries, Inc., Fort Worth, Tex. Concentration of acetylene. 2,424,987; Aug. 5.
- Isom, Elbert C., Garden City, N. Y. Navigational computer. 2,425,097; Aug. 5.
- Israel, William O.: *See*—  
Kline, Hayden B., Burkholder and Israel.
- Isserstedt, Siegfried G., Toronto, Ontario, Canada, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Load compensating follow-up system. 2,416,257; Feb. 18.
- Isserstedt, Siegfried G., Toronto, Ontario, Canada, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Time operated switch. 2,419,077; Apr. 15.
- Isserstedt, Siegfried G., Toronto, Ontario, Canada, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Modulating control apparatus. 2,426,508; Aug. 26.
- Ithner, Charles K., Troutdale, Oreg. Mercury arc rectifier. 2,418,805; Apr. 1.
- Ivandick, Matthew G., assignor to Free Sewing Machine Co., Rockford, Ill. Motor drive for sewing machines. 2,417,417; Mar. 18.
- Ivandick, Matthew G., assignor to Free Sewing Machine Co., Rockford, Ill. Stitch regulating and reversing mechanism for sewing machines. 2,420,480; May 13.
- Ivandick, Matthew G., assignor to Free Sewing Machine Co., Rockford, Ill. Rotary hook for sewing machines. 2,428,027; Sept. 30.
- Ivers-Lee Company, assignee: *See*—  
Salisbury, Leroy L.,  
Sproule, William K., and Harcourt.
- Iversen, Lorenz, assignor to Mesta Machine Company, Pittsburgh, Pa. Flying shear. 2,413,920; Jan. 7.
- Iversen, Lorenz, assignor to Mesta Machine Company, Pittsburgh, Pa. Shearing of metal strip. 2,415,428; Feb. 11.
- Iverson, Neal J., Mobile, Ala. Multiple nozzle self-propelled sprayer. 2,425,940; Aug. 19.
- Iverson, Nels J., Veradale, Wash. Vehicle mounted carrier bracket. 2,431,400; Nov. 25.
- Ives, Clifford E., Chicago, assignor to National Aluminum Manufacturing Co., Peoria, Ill. Split locking ring for pressure cooker. 2,414,529; Jan. 21.
- Ivins, Herbert L.: *See*—  
Hartley, Emmett C., and Ivins.
- Ivy, Andrew C.: *See*—  
Brown, Fauley G., and Ivy.
- Ivy, Jessie T., Seattle, Wash. Drafting device for drawing projections. 2,419,078; Apr. 15.
- Iwen, Ewald A.: *See*—  
Short, Leo C., and Iwen.
- Izard, Emmette F., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Sulfur-containing polymeric compounds. 2,418,938; Apr. 15.
- Izard, Emmette F., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Sulfur-containing polymeric compounds and producing the same. 2,418,939; Apr. 15.
- Izard, Emmette F., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Sulfur-containing polymeric compounds. 2,418,940; Apr. 15.
- Izard, Emmette F., Kenmore, N. Y., and B. W. Howk, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Thiourea derivatives of polymeric compounds. 2,418,941; Apr. 15.
- J & S Tool Co., assignee: *See*—  
Jakobsen, Harry S.
- Jack & Heintz Precision Industries, Inc., assignee: *See*—  
Cahill, Lysle J.,  
Goddard, Asa C.,  
Heintz, Ralph M.,  
Neff, Joseph J.,  
Parks, Wesley E., Heckendorf, and Holzberger.  
Schroeder, Herman C.,  
Steigerwald, Joseph F.,  
Tragesser, Herbert R.
- Jackel, Victor, New York, N. Y. Brush and comb sterilizer. 2,424,036; July 15.
- Jacks, Herman D., Bloomfield, N. J., assignor to Wright Aeronautical Corporation. Electrical ratio indicating instrument. 2,422,240; June 17.
- Jackle, José: *See*—  
Gantenbein, Andreas, and Jackle.
- Jackler, Rose, Brooklyn, and D. H. Goldberg, New York, N. Y. Decorated handbag. 2,428,972; Oct. 14.
- Jackson, Albert S.: *See*—  
Fedorchak, William J., and Jackson.  
Wilske, Julius E., Jackson, and McCormick.
- Jackson, Aldrich L., Minneapolis, Minn. Automatic food slicer and slice counting machine. 2,414,152; Jan. 14.
- Jackson, Arnold O.: *See*—  
Longfellow, Charles F., and Jackson.
- Jackson, Arthur L.: *See*—  
Schilthuis, Jan J., and Jackson.
- Jackson Byron Co., assignee: *See*—  
Blom, Carl J.
- Jackson, Carlton T., Rochester, assignor to International Business Machines Corporation, New York, N. Y. Typewriter rhythm recorder. 2,431,043; Nov. 18.
- Jackson, Charles C., Pomeroy, Wash. Harvesting mechanism. 2,417,500; Mar. 18.
- Jackson, Corwill, Ludington, Mich. Machine for placing concrete and other materials. 2,430,816; Nov. 11.
- Jackson, Corwill, Ludington, Mich. Electric motor-driven tool. 2,430,817; Nov. 11.
- Jackson, Donald, assignor to Pye Limited, Cambridge, England. Electric coupling. 2,425,679; Aug. 12.
- Jackson, Donald, assignor to Pye Limited, Cambridge, England. Magnet mounting arrangement for magnetrons. 2,431,804; Dec. 2.
- Jackson, Donald G., Pasadena, Calif. Broken line making attachment for draftmen's scales. 2,427,143; Sept. 9.
- Jackson, Ernest A., assignor to Kay & Lee Limited, Manchester, England. Supporting trousers and such like. 2,418,772; Apr. 8.
- Jackson, Frank W., and H. M. Nacey, Chicago, Ill. Fusible fire alarm. 2,420,481; May 13.
- Jackson, Frederick R., Jr., Pittsfield, Mass., assignor to General Electric Company. Sequential electric switching system. 2,424,826; July 29.
- Jackson, George W., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Actuator control. 2,418,351; Apr. 1.
- Jackson, George W., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Control mechanism for reversible electric motors. 2,422,905; June 24.
- Jackson, Henry A., Mount Lebanon, Pa., assignor to Hall Laboratories, Inc., Pittsburgh, Pa. Solutions of water-insoluble metaphosphates. 2,414,742; Jan. 21.
- Jackson, Jack J. A., Black Diamond, Wash. Leakproof stopper. 2,424,930; July 29.
- Jackson, James H., Detroit, Mich. Liquid fuel burner. 2,420,598; May 13.
- Jackson, James O., Crafton, assignor to Pittsburgh-Des Moines Company, Pittsburgh, Pa. Vapor conserving tank. 2,418,229; Apr. 1.
- Jackson, John G., Detroit, Mich. Concrete structural element reinforced with glass filaments. 2,425,883; Aug. 19.
- Jackson, John G., and R. Mueller, assignors to Square D Company, Detroit, Mich. Circuit breaker. 2,426,880; Sept. 2.
- Jackson, Maunsell B., Toronto, Ontario, Canada. Packing means for pistons. 2,426,613; Sept. 2.
- Jackson, Sidney: *See*—  
Chilcot, Arthur L., Jackson, and Taylor.
- Jackson, Robert J., Hazardville, assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Making pile fabric floor covering. 2,430,425; Nov. 4.
- Jackson, Thomas, North Muskegon, assignor to Continental Motors Corporation, Muskegon, Mich. Diffuser for centrifugal blowers. 2,421,888; June 10.
- Jackson, Thomas, and F. B. Hill, Spondon, near Derby, assignors to British Celanese Limited, London, England. Fluid treating apparatus for yarns. 2,425,037; Aug. 5.



- Jackson, Thomas, and F. B. Hill, Spondon, near Derby, England, assignors to Celanese Corporation of America. Apparatus for stretching continuous filament textile material. 2,427,054; Sept. 9.
- Jackson, Tom C., Lebanon, Ky. Locking means. 2,426,219; Aug. 26.
- Jackson, William Steell, and Son, assignee: *See*—Flounders, Frank R.
- Jacob, Ezekiel J., Brooklyn, N. Y. Making insulating material. 2,430,123; Nov. 4.
- Jacob, Frederick N., and M. J. Kirk, assignors to The Mantle Lamp Company of America, Chicago, Ill. Hollow magnetic shell assembly. 2,422,303; June 17.
- Jacob, Mory L., Pittsburgh, Pa., assignor to Pittsburgh Annealing Box Company. Annealing box. 2,414,530; Jan. 21.
- Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Air cleaner. 2,431,329; Nov. 25.
- Jacobs Bros. Co., Inc., The, assignee: *See*—Haferl, Rolf C.
- Jacobs, Grant, Des Moines, Iowa. Pump jack. 2,420,541; May 13.
- Jacobs, Harry, assignee: *See*—Eckhoff, Herman.
- Jacobs Manufacturing Company, The, assignee: *See*—Stoner, Arthur M.
- Jacobs, Ruth M., assignee, et al.: *See*—Lowe, Richard R.
- Jacobs, Samuel S., San Mateo, and S. Birkland, San Francisco, Calif., assignors to American Can Company, New York, N. Y. Filling and sealing containers. 2,426,555; Aug. 26.
- Jacobsen, Aage M., Los Angeles, Calif., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical dynamometer. 2,432,900; Dec. 16.
- Jacobsen Manufacturing Company, assignee: *See*—Bergh, Charles J.
- Jacobsen, Oystein, Montgomery County, assignor to The Duriron Company, Inc., Dayton, Ohio. Plug valve. 2,419,647; Apr. 29.
- Jacobson, Carl H., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Automatically focussed projection printer. 2,418,230; Apr. 1.
- Jacobson, Carl H., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Contact printer. 2,421,150; May 27.
- Jacobson, Carl H., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Film feeding and controlling means. 2,431,254; Nov. 18.
- Jacobson, Charles, New York, assignor to S. & S. Corrugated Paper Machinery Co., Inc., Brooklyn, N. Y. Skip feed mechanism. 2,422,783; June 24.
- Jacobson, Irving, Hollywood, Calif., and H. E. Smith, assignors to Graflex, Inc., Rochester, N. Y. Photographic synchronizing equipment. 2,418,714; Apr. 8.
- Jacobson, James H., Chicago, Ill. Load transfer unit. 2,417,824; Mar. 25.
- Jacobson, James J., New York, N. Y. Dispensing container with ejector plunger. 2,430,718; Nov. 11.
- Jacobson, Ralph A.: *See*—Howk, Benjamin W., and Jacobson.
- Jacobson, Ralph A., Landenburg, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerization of vinyl compounds with rubber. 2,422,550; June 17.
- Jacobson, Victor, Hastings on Hudson, N. Y. Extrusion apparatus and method. 2,417,165; Mar. 11.
- Jacobstein, Julius: *See*—Donald, Archibald, and Jacobstein.
- Jacoby, Arthur L.: *See*—Bird, Paul G., and Jacoby.
- Jacoby, Arthur L., Western Springs, assignor to National Aluminate Corporation, Chicago, Ill. Prevention of foaming in steam boilers. 2,428,801; Oct. 14.
- Jacoby, George W., Jr., Wooster, Ohio. Hypodermic needle sharpener. 2,429,357; Oct. 21.
- Jacoby, Henry J.: *See*—Goodman, Robert, and Jacoby.
- Jacoby, Raymond W., Providence, R. I., assignor to Ciba Products Corporation, Hoboken, N. J. Improving the fastness of dyed material. 2,431,562; Nov. 25.
- Jacqué, John, New York, N. Y. Curtain rod mounting. 2,419,140; Apr. 15.
- Jacques, John C., Denison, Tex. Earth auger. 2,415,572; Feb. 11.
- Jacques Kreisler Manufacturing Corporation, assignee: *See*—O'Larte, Rudolph, and Speck.  
O'Larte, Rudolph, and Vollet.
- Jacques, Raynaldo P., Woonsocket, R. I., assignor to Uxbridge Worsted Co., Inc., Uxbridge, Mass. Controlling the tension on the warp in looms. 2,430,639; Nov. 11.
- Jacuzzi Bros., Incorporated, assignee: *See*—Piccardo, Jack E., and Armstrong.
- Jaeger, Edward V., Denville, N. J., and R. M. Plympton, assignors to R. C. Nichols Corporation, Yarmouth, Maine. Boot construction. 2,428,626; Oct. 7.
- Jaeger Machine Company, The, assignee: *See*—Barker, Eugene.  
Bohmer, Clarence I.  
Millikin, Arnold S., and Apel.
- Jaeger, Samuel W., San Francisco, Calif. Ink bottle. 2,418,585; Apr. 8.
- Jaeger Watch Company, Inc., assignee: *See*—Berge, Joseph.
- Jahnig, Charles E., Roselle, N. J., assignor to Standard Oil Development Company. Carrying out chemical reactions in the presence of finely-divided solids. 2,420,542; May 13.
- Jahnig, Charles E., Roselle, N. J., assignor to Standard Oil Development Company. Contacting solids and gaseous fluid. 2,425,807; Aug. 19.
- Jahnig, Charles E., Roselle, N. J., assignor to Standard Oil Development Company. Contacting gases and solids in fluidized systems. 2,429,721; Oct. 28.
- Jahoda, Edward, Detroit, Mich., assignor to H. P. Andrews Paper Company, New York, N. Y. Making photographic paper. 2,433,515; Dec. 30.
- Jakeway, Gerald V.: *See*—Keeler, Isaac S., and Jakeway.
- Jakeway, Gerald V., assignor to Keeler Brass Company, Grand Rapids, Mich. Friction support for lids. 2,421,889; June 10.
- Jakeway, Gerald V., assignor to Keeler Brass Company, Grand Rapids, Mich. Door handle. 2,433,277; Dec. 23.
- Jakeway, Gerald V., assignor to Keeler Brass Company, Grand Rapids, Mich. Door handle, latch, and latch operator. 2,433,278; Dec. 23.
- Jakeway, Gerald V., assignor to Keeler Brass Company, Grand Rapids, Mich. Door handle. 2,433,562; Dec. 30.
- Jakob, John P., Roselle, N. J., assignor to American Can Company, New York, N. Y. Conveyor for fish canning machines. 2,422,198; June 17.
- Jakobsen, Harry S., Harrison, assignor to J & S Tool Co., East Orange, N. J. Variable volume hydraulic pump of the axially oscillating vane type. 2,431,122; Nov. 18.
- Jakobsen, Jakob L., Minneapolis, Minn., assignor to General Mills, Inc. Dehydrated butter. 2,418,645; Apr. 8.
- Jakosky, John J., Los Angeles, Calif. Golf club. 2,425,808; Aug. 19.
- Jalbert, Domina C., Woonsocket, R. I. Kite balloon. 2,431,938; Dec. 2.
- Jam Handy Organization, Inc., The, assignee: *See*—Mast, Gifford M., and Sharp.
- Jamerson, Bradford W., St. Louis, Mo. Fishing line float. 2,421,068; May 27.
- James, A. Leslie, Jr., assignee: *See*—Smith, Putnam M.
- James, Elsie L.: *See*—Hoar, Thomas P., and James.
- James, Franklin E., Almont, Pa., assignor to Mack Manufacturing Corporation, Long Island City, New York, N. Y. Fluid pump regulator. 2,426,737; Sept. 2.
- James, Gerald W., assignor, by mesne assignments, to Ideal Industries, Inc., Sycamore, Ill. Battery. 2,415,593; Feb. 11.
- James, Gerald W., assignor, by mesne assignments, to Ideal Industries, Inc., Sycamore, Ill. Battery. 2,416,755; Mar. 4.
- James, Harold V., trustee, assignee, et al.: *See*—French, Elby E.
- James, Herbert D.: *See*—Tunniciuff, Eustace, Taylor, and James.
- James Industries, Inc., assignee: *See*—James, Richard T.
- James, Ivor R. J.: *See*—Earp, Charles W., James, and Cleaver.
- James, Joseph R., and R. Keyzer-André, assignors of one-third to J. E. Norman, Miami, Fla. Driftmeter. 2,418,264; Apr. 1.
- James Manufacturing Company, assignee: *See*—Willett, William M.
- James, Norman L., Ingersoll, Ontario, Canada. Snow excavator. 2,419,779; Apr. 29.
- James, Richard T., Brookline, assignor to James Industries, Inc., Philadelphia, Pa. Toy and use. 2,415,012; Jan. 28.
- James, Robert H., South Euclid, Ohio, assignor, by mesne assignments, to A. M. Albert. Nesting chair. 2,419,838; Apr. 29.
- James, Thomas L., Detroit, Mich. Traction device. 2,433,362; Dec. 30.
- Jamestown Metal Equipment Company, Inc., assignee: *See*—Conterman, Fred A.  
Hays, Charles H., Jr.  
Svensson, Leroy.
- Janchan, Francis, Milwaukee, Wis. Artificial bait. 2,424,096; July 15.
- Jandasek, Joseph, assignor to Bendix Aviation Corporation, Detroit, Mich. Torque converter with fluid clutch connecting axially shiftable reaction member to impeller during coupling operation. 2,415,287; Feb. 4.
- Jandasek, Joseph, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Turbine type rotary fluid coupling and torque converter. 2,426,103; Aug. 19.
- Jandasek, Joseph, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Turbine type fluid torque converter and fluid coupling. 2,427,458; Sept. 16.
- Jandasek, Joseph, assignor to Bendix Aviation Corporation, Detroit, Mich. Fluid drive. 2,428,164; Sept. 30.



- Jandasek, Joseph, Highland Park, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Rotary hydraulic torque converter and fluid coupling. 2,420,429; May 13.
- Jandus, Herbert S.: *See—*  
Ferguson, Arthur P., and Jandus.
- Janecek, Frank H., Windham, and L. Larson, Shaker Heights, assignors to Republic Steel Corporation, Cleveland, Ohio. Lined conduit. 2,429,580; Oct. 21.
- Janes, Edmund D., Waterbury, assignor to Scovill Manufacturing Company, New Haven, Conn. Combination metal and plastic button. 2,413,975; Jan. 7.
- Janes, Edwin H., Detroit, Mich., assignor to Abestos Manufacturing Company, Huntington, Ind. Brake lining presser. 2,433,760; Dec. 30.
- Janes, Robert B., Verona, N. J., assignor to Radio Corporation of America. Manufacturing photo-electric tubes. 2,431,401; Nov. 25.
- Janes, Robert B., Verona, N. J., assignor to Radio Corporation of America. Phototube and manufacture. 2,431,402; Nov. 25.
- Janette, John T., Kenilworth, assignor to Janette Manufacturing Company, Chicago, Ill. Variable-speed transmission. 2,423,323; July 1.
- Janette Manufacturing Company, assignee: *See—*  
Janette, John T.
- Janik, John J., Niagara Falls, N. Y. Invasion checkers. 2,420,482; May 13.
- Janis, Peter, Beverly, assignor to Sylvania Electric Products Inc., Salem, Mass. Rectifier tube. 2,432,425; Dec. 9.
- Janke, Edward F., Sr., Washington, D. C. Bridge structure. 2,417,825; Mar. 25.
- Janke, Edward J., assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio. Printing machine. 2,425,327; Aug. 12.
- Jannsen, Newman C., Seattle, Wash. Construction of metal vessels. 2,419,218; Apr. 22.
- Janosz, Andrew W., Manchester, N. H. Combined suitcase and flatiron. 2,413,830; Jan. 7.
- Jansen, Francis J. W., Dar es Salaam, Tanganyika, East Africa. Mechanical connections for electrical circuits. 2,427,144; Sept. 9.
- Jansky, Karl G.: *See—*  
Edwards, Charles F., and Jansky.
- Janson, Karl J. W.: *See—*  
Helmstein, Lars J. T., and Janson.
- Janson, Leo P., Sharon Hill, Pa. Lubricant-coolant collar or ring. 2,418,646; Apr. 8.
- Janssen, Webster E., Bronxville, N. Y. Chair. 2,425,884; Aug. 19.
- Janzer, Lorin H.: *See—*  
Urschel, Bertis H., and Janzer.
- Japikse, Bertrand: *See—*  
Laussucq, Harry P. L., and Japikse.
- Japikse, Bertrand, Reifton, assignor to Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa. Control mechanism for regulating flow of fluid pressure in hydraulic systems. 2,426,509; Aug. 26.
- Jarosz, Albert W., Detroit, Mich. Micrometer height gage. 2,426,933; Sept. 2.
- Jarvis, Samuel F., Schenectady, N. Y., assignor to General Electric Company. Coil support. 2,425,155; Aug. 5.
- Jasatis, Zene V., Los Angeles, and D. D. Davidson, Long Beach, assignors to Shell Development Company, San Francisco, Calif. Application of metal sulfide catalysts in the vapor phase treatment of mineral oils. 2,414,951; Jan. 28.
- Jasco, Incorporated, assignee: *See—*  
Antonio, Adolph L.  
Evans, Hector C., and Young.  
Holmes, Robert L.  
Kellog, Henry B., and Serniuk.  
Morrell, Charles E., and Swaney.  
Owen, John J., and Kimberlin.  
Schneider, Helmuth G., and Mistretta.  
Sparks, William J., and Kellog.  
Thomas, Robert M., and Field.  
Wright, Donald L.
- Jansen, Harry B., Glendale, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Variable transparency closure. 2,433,456; Dec. 30.
- Jarrett, Tracy C., and R. D. Guerke, Baltimore, Md., assignors, by mesne assignments, to Koppers Company, Inc. Chrome plated wear resisting surface. 2,433,457; Dec. 30.
- Jasinski, Anthony F., assignor of one-third to S. A. Edelman and one-third to S. Stern, Chicago, Ill. Lamp. 2,429,553; Oct. 21.
- Jaske, Theodore A., Chicago, Ill. Hair curler. 2,414,694; Jan. 21.
- Jason, John P., assignor, by mesne assignments, to Sprayer Corporation of America, Chicago, Ill. Spraying apparatus. 2,413,710; Jan. 7.
- Jason, John P., assignor to Breuer Electric Mfg. Co., Chicago, Ill. Suction-blower device. 2,422,968; June 24.
- Jaeger, Lenus, Orland, Calif., assignor to S. S. Barker, Ottumwa, Iowa. Fowl suspension apparatus. 2,423,560; July 8.
- Jaspersen, George H., Philadelphia, Pa. Prop or brace. 2,413,921; Jan. 7.
- Jastrzomb, Wilma, Akron, Ohio. Boot or shoe shield. 2,427,459; Sept. 16.
- Jatlow, Jacob L.: *See—*  
Bancroft, Erwin P., and Jatlow.
- Jaxtheimer, Charles H., North Braddock, Pa., assignor to Carnegie-Illinois Steel Corporation. Sealing device. 2,419,079; Apr. 15.
- Jay, Matthew C., Gary, Ind. Metal mold. 2,424,931; July 29.
- Jay, Osa E., and E. Gildersleeve, Washington, D. C. Removable garment pad. 2,418,411; Apr. 1.
- Jayne, David W., Jr.: *See—*  
Crawford, Bruce D., and Jayne.
- Jeanne, Paul A., Mount Vernon, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cathode-ray tube circuit. 2,416,320; Feb. 25.
- Jeannette Glass Company, The, assignee: *See—*  
Cassell, Robert P.
- Jearum, Frederick C., Sutton, England. Machine or mechanism for generating shapes or profiles for diamonds and the like. 2,423,777; July 8.
- Jearum, Frederick C., Sutton, England. Lapping machine for generating diamond shapes. 2,429,464; Oct. 21.
- Jefferson Electric Company, assignee: *See—*  
Berthel, Gust A.  
Goddard, Edwin G.  
Mauerer, Leopold.  
Rickmeyer, Ernst W.
- Jefferson, Ernest S., Belhaven, N. C. Back band. 2,419,897; Apr. 29.
- Jeffrey Company, The, assignee: *See—*  
Francis, Earle V.
- Jeffery, Harold T., Wilmette, Ill., assignor to Yeomans Brothers Company. Sewage clarifier. 2,417,688; Mar. 18.
- Jeffrey, John H., Cobham, assignor to Combined Optical Industries Limited, Slough, England. Collective lens system. 2,416,525; Feb. 25.
- Jeffrey Company, The, assignee: *See—*  
Johnson, Claus J.  
Lindsay, James R.
- Jeffrey, Florence H. C., executrix: *See—*  
Jeffrey, Robert K.
- Jeffrey Manufacturing Company, The, assignee: *See—*  
Beltz, John S.  
Bird, Byron M.  
Feight, Oscar J.  
Fowler, John T.  
Fowley, Fred B.  
Jeffrey, Robert K.  
Lee, Arthur L.  
Mercier, Stanley M.  
Moon, Sterling C.  
Steinmetz, Walter C.
- Jeffrey, Max L., Shaker Heights, assignor to The National Acme Company, Cleveland, Ohio. Switch. 2,416,626; Feb. 25.
- Jeffrey, Robert K., deceased, by F. H. C. Jeffrey, Bexley, Ohio, executrix, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Spring pressed overload release clutch. 2,426,351; Aug. 26.
- Jeffrey, Robert K., deceased; H. C. Jeffrey, executrix, Bexley, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Valve for mining machines. 2,427,859; Sept. 23.
- Jeffries, Hugh, Santa Monica, Calif. Sliding abutment unit for rotary displacement pumps or motors. 2,425,244; Aug. 5.
- Jegge, Emil G.: *See—*  
Buffington, Malcolm R., and Jegge.
- Jelinek, Benjamin: *See—*  
Budreck, Frances, and Jelinek.
- Jelley, Edwin E.: *See—*  
Brown, Gordon H., Vittum, and Jelley.
- Jenckes, Thomas A., assignee: *See—*  
Boland, Edward R.
- Jeneson, George R., Cincinnati, Ohio, assignor to American Can Company, New York, N. Y. Press for making metal handles and links. 2,418,122; Apr. 1.
- Jenkins, Alexander: *See—*  
Thompson, Leslie E., and Jenkins.
- Jenkins, Alexander F., assignor to The Alexander Milburn Company, Baltimore, Md. Spray gun. 2,416,923; Mar. 4.
- Jenkins, Cecil: *See—*  
Woolslayer, Homer J., Campbell, and Jenkins.
- Jenkins, Charles F., Laughlinton, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Battery charging system. 2,427,729; Sept. 23.
- Jenkins, Charles F., Laughlinton, and R. E. Rambo, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Brushholder cross connection. 2,431,255; Nov. 18.
- Jenkins, Charles R., Parma, assignor to H. D. Boardman, Jackson, Mich., as trustee. Pressure applying device for clamps and the like. 2,424,037; July 15.
- Jenkins, Chester P.: *See—*  
Troller, Theodor H., and Jenkins.
- Jenkins, Glenn L., West Lafayette, and H. W. Murphy, Indianapolis, Ind. 3-(5-ethoxy-3-indolyl)-propyl compounds. 2,416,258; Feb. 18.
- Jenkins, Glenn L., La Fayette, and J. E. Christian, assignors to Purdue Research Foundation, West Lafayette, Ind. Quinoline thiols. 2,430,678; Nov. 11.



- Jenkins, Glenn L. La Fayette, and J. E. Christian, assignors to Purdue Research Foundation, West Lafayette, Ind. Quinoline disulfides. 2,430,679; Nov. 11.
- Jenkins, Gwilym I.: *See*—  
Fawcett, Eric W. M., and Jenkins.
- Jenkins, Henry G., Pinner, A. H. McKeag, North Wembley, and P. W. Ranby, Wembley, England, assignors to General Electric Company. Alkaline earth phosphor. 2,427,728; Sept. 23.
- Jenkins, Richard E., Keene, N. H. Air and hydraulic drill control. 2,430,019; Nov. 4.
- Jenkins, Russell L., Anniston, Ala., assignor to Monsanto Chemical Company, St. Louis, Mo. Making neutral tri-substituted phosphates. 2,426,691; Sept. 2.
- Jenkins, Stanley B., Boston, Mass. Container. 2,432,764; Dec. 16.
- Jenks, William, Los Angeles, Calif. Car door hanging truck. 2,418,586; Apr. 8.
- Jenkinson, Robert L., Teaneck, N. J., assignor to The Marlin Firearms Company, New Haven, Conn. Breech bolt and retracting means therefor. 2,430,680; Nov. 11.
- Jenks, Frederic A.: *See*—  
Folland, Donald F., Schock, and Jenks.
- Jenks, Frederic A., Rockville Centre, N. Y., assignor to Sperry Gyroscope Company, Inc. Cross pointer meter. 2,424,570; July 29.
- Jenks, Frederic A., Rockville Centre, and D. F. Folland, East Hempstead, N. Y. Switching and modulation system. 2,425,328; Aug. 12.
- Jenks, Harold C., Cincinnati, Ohio, assignor to Westinghouse Electric Corporation, Pittsburgh, Pa. Regulating system. 2,420,881; May 20.
- Jenks, Harold C., Cincinnati, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Regulating system. 2,422,551; June 17.
- Jenness, Leslie G., Buffalo, N. Y., assignor to The Linde Air Products Company. Chemical production of oxygen. 2,421,381; June 3.
- Jennings, Andrew B., New Brunswick, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing hydrophilic color-former silver halide dispersions. 2,422,680; June 24.
- Jennings, Arthur L., assignor to Armstrong Cork Company, Lancaster, Pa. Indenting felt paper. 2,432,993; Dec. 23.
- Jennings, Harley Y., Clio, assignor to Copeman Laboratories Company, Flint, Mich. Coated paper and producing the same. 2,432,074; Dec. 2.
- Jennings, Harley Y., Clio, assignor to Copeman Laboratories Company, Flint, Mich. Roll of sheet material with cohesive coating. 2,432,075; Dec. 2.
- Jennings, Harley Y., Danville, Va., W. F. Swezey, Upper Darby, Pa., and F. W. Schouman, assignors to Copewan Laboratories Company, Flint, Mich. Arrangement for releasing and storing ice cubes. 2,429,882; Oct. 28.
- Jennings, Harry C.: *See*—  
Everest, Herbert A., and Jennings.
- Jennings, Irving C., South Norwalk, Conn. Centrifugal compressor. 2,425,885; Aug. 19.
- Jennings, Oliver S., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,429,722; Oct. 28.
- Jennings, Rodney F.: *See*—  
Bangham, Donald H., Bennett, Brown, Hirst, Pirani, and Jennings.
- Jenny, Frank J., Forest Hills, M. M. Perkins, Plandome, and M. J. Cicalese, Forest Hills, N. Y., assignors to The M. W. Kellogg Company, Jersey City, N. J. Alkylation of isoparaffins by means of olefins. 2,429,205; Oct. 21.
- Jenny, Robert W., East Paterson, N. J., assignor to Curtiss-Wright Corporation. Potentiometer with eccentric arm. 2,429,465; Oct. 21.
- Jensen, Anker W., Oak Park, Ill. Hand abrader. 2,420,397; May 13.
- Jensen, Arthur, and S. Holm, Wellsville, assignors to The Air Preheater Corporation, New York, N. Y. Air heater with corrugated core. 2,430,227; Nov. 4.
- Jensen, Dan H. L., and E. I. Harman, assignors, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Television apparatus. 2,413,922; Jan. 7.
- Jensen, Frants V.: *See*—  
Eriksson, John A., and Jensen.
- Jensen, Frederick B., Sacramento, Calif. Enlarging easel. 2,427,860; Sept. 23.
- Jensen, Herman G., assignor to J. P. Seeburg Corporation, Chicago, Ill. Automatic phonograph. 2,416,445; Feb. 25.
- Jensen, Jens, Englewood, N. J. Combination ash tray, flower and candle holder. 2,428,116; Sept. 30.
- Jensen, Jens M.: *See*—  
Lincks, George F., and Jensen.
- Jensen, Joseph M., Oakland, and B. Vale, San Francisco, Calif. Toilet disinfectant. 2,424,174; July 15.
- Jensen Manufacturing Company, assignee: *See*—  
Knowles, Hugh S.
- Jensen, Nels, Grass Valley, Calif. Hand truck. 2,417,553; Mar. 18.
- Jensen, Nels, Grass Valley, Calif. Hand truck. 2,421,123; May 23.
- Jensen, Otto, Malvern, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Circuit breaker. 2,422,784; June 24.
- Jensen, Raymond W., assignor to The Garrett Corporation, Aircsearch Manufacturing Company division, Los Angeles, Calif. Control device for oil coolers. 2,428,280; Sept. 30.
- Jensen, Richard C., and J. E. Keister, Scotia, N. Y., assignors to General Electric Company. High-frequency oscillator. 2,427,558; Sept. 16.
- Jensen, Robert P., Kansas City, Kans. Wall table. 2,420,041; May 6.
- Jensen Specialties, Inc., assignee: *See*—  
Eriksson, John A., and Jensen.
- Jensen, Volmer S., Glendale, Calif., assignor to California Aero Glider Co., Inc. Preflight pilot training aircraft apparatus. 2,422,552; June 17.
- Jensen, Walter: *See*—  
Rivard, Lawrence B., and Jensen.
- Jenson, Arthur H., Evanston, assignor to Amalgamated Engineering & Research Corporation, Chicago, Ill. Releasable coupling. 2,423,979; July 15.
- Jeffroy, Roy, Perryton, Tex. Portable grain elevator. 2,417,111; Mar. 11.
- Jeppesen, Kresten L., and P. H. Keays, Hamilton, Ontario, Canada, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Clutch. 2,426,023; Aug. 19.
- Jepson, Alfred B.: *See*—  
Cooper, James B., and Jepson.
- Jepson, Alfred B., and J. B. Cooper, assignors to Boeing Aircraft Company, Seattle, Wash. Supercharger and exhaust valve control means for pressurized cabins. 2,414,202; Jan. 14.
- Jepson, Percy, Oakland, Calif. Electrode holder. 2,419,560; Apr. 29.
- Jepson, Percy, Oakland, Calif. Electrode holder. 2,427,002; Sept. 9.
- Jerard, Anthony V.: *See*—  
Gottlieb, David, and Jerard.
- Jergens, John G., Shaker Heights, Ohio. Pilot bearing. 2,429,516; Oct. 21.
- Jernstedt, George W.: *See*—  
Lum, John C., and Jernstedt.
- Jerome, Arthur L.: *See*—  
Kemmerer, Ralph R., and Jerome.  
Pascoe, Frank T., and Jerome.
- Jerome, Arthur L., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway centralized traffic controlling apparatus. 2,424,038; July 15.
- Jerome, George F., Fort Wayne, Ind. Poultry picking machine. 2,413,711; Jan. 7.
- Jerome, George F., Fort Wayne, Ind. Poultry picking apparatus. 2,413,712; Jan. 7.
- Jerome, Wesley L., Springfield, Mass. Tool. 2,415,136; Feb. 4.
- Jervy, Thomas M., Riverside, Calif. Combination linking and delinking machine for ammunition belts. 2,415,561; Feb. 11.
- Jessop, Robert E. E., West Vancouver, British Columbia, Canada. Rotary roller pump. 2,424,466; July 22.
- Jessop Steel Company, assignee: *See*—  
Mehl, Robert F.  
Townsend, Leyshon W.
- Jessop, Stuart M., Baltimore, and H. E. Dyer, Havre de Grace, Md. Method and apparatus for impregnating filter material. 2,416,695; Mar. 4.
- Jessup, Sellers E., Los Angeles, Calif. Piston. 2,415,594; Feb. 11.
- Jewell, Richard G.: *See*—  
Hansen, Albert Jr., Jewell, Johnson, and Porter.
- Jewell, Richard G., Swampscott, Mass., assignor to General Electric Company. Erecting device for gyroscopes. 2,418,032; Mar. 25.
- Jewell, Richard G., Swampscott, Mass., assignor to General Electric Company. Linear motion transmitter or receiver. 2,427,213; Sept. 9.
- Jimerson, Francis A., Athens, Ga., assignor to Ingersoll-Rand Company, New York, N. Y. Speed responsive fluid motor throttling and shutoff valve means. 2,422,733; June 24.
- Joachim, Hans, assignor to The Inerto Company, San Francisco, Calif. Clarifying and stabilizing beer and like beverages. 2,416,007; Feb. 18.
- Jobst, Conrad, assignor to Toledo Automatic Brush Machine Company, Toledo, Ohio. Work holder for brush making machines. 2,423,499; July 8.
- Jocelyn, Douglas L., Detroit, Mich. Engine. 2,427,284; Sept. 9.
- Jodoin, Edward A., Springfield, Mass. Soap dish construction. 2,417,365; Mar. 11.
- Joesting, Harry F., assignee: *See*—  
Le Claire, Eugene J.
- Johansen, Carl S., and M. R. G. Teisen, Copenhagen, Denmark. Internal-combustion engine. 2,417,648; Mar. 18.
- Johannsen, Homer V., Chicago, Ill. Terrestrial globe. 2,422,101; June 10.
- Johannson, Oscar K., assignor to Corning Glass Works, Corning, N. Y. Alkyl-dialkylaminosilanes. 2,429,883; Oct. 28.
- Johansen, Carl S., and M. R. G. Teisen, Copenhagen, Denmark. Two-stroke internal combustion engine. 2,417,649; Mar. 18.
- Johansen, Christopher, Los Angeles, Calif. Reversible propeller. 2,414,229; Jan. 14.



- Johansen, Einar K., assignor to Clearing Machine Corporation, Chicago, Ill. Triple-action press. 2,429,062; Oct. 14.
- Johansson, Carl A., Helenelund, near Stockholm, assignor to Aktiebolaget Cryptoteknik, Stockholm, Sweden. Numbering machine. 2,428,847; Oct. 14.
- Johansson, Carl Olov, assignor to Leonard Johanssons Fabriks Aktiebolag, Eskilstuna, Sweden. Device in saw frames. 2,431,044; Nov. 18.
- Johansson, Edvin A., Stockholm, Sweden. Destructive distillation process bodying counter flow of solid heating medium. 2,420,376; May 13.
- Johansson, Ernest G., Belmont, assignor to Anchor Manufacturing Company, Boston, Mass. Service cabinet. 2,423,938; July 15.
- Johansson, Ernest G., Belmont, assignor to Anchor Manufacturing Company, Boston, Mass. Meter box. 2,429,093; Oct. 14.
- Johansson, Ernest G., Belmont, Mass., and A. A. Young, Manchester, N. H., assignors to Anchor Manufacturing Company, Boston, Mass. Switch box mounting. 2,422,553; June 17.
- Johansson, Johan E., Gothenburg, Sweden, assignor to Aktiebolaget Gotaverken. Turbine blade. 2,421,890; June 10.
- Johansson, Johan E., assignor to Aktiebolaget Gotaverken, Goteborg, Sweden. Piston. 2,429,956; Oct. 28.
- Johansson, Johan E., assignor to Aktiebolaget Gotaverken, Goteborg, Sweden. Two-cycle engine with supercharger driven by parallel high- and low-pressure staged exhaust gas turbine. 2,431,563; Nov. 25.
- Johansson, Karl L.: *See*—  
Ninnis, Harry, and Johansson.
- Johansson, Sven C., Gothenburg, Sweden. Rust inhibiting oil composition. 2,432,901; Dec. 16.
- John, Edward T., assignor to The J. R. Clark Company, Minneapolis, Minn. Ladder rung fastening means. 2,415,180; Feb. 4.
- John, Walter, Göttingen, Germany; vested in the Attorney General of the United States. Process for the production of chromanes. 2,422,625; June 17.
- Johndrew, Wilbur, Buffalo, N. Y. Interrupting the movement of a tool. 2,416,055; Feb. 18.
- Johns, Francis J., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Multiple heater thermal switch. 2,414,531; Jan. 21.
- Johns, Francis J., and T. C. Fockler, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical machine. 2,414,532; Jan. 21.
- Johns, Francis J., Pittsburgh, and H. W. Howard, Wilkensburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Motor control. 2,419,141; Apr. 15.
- Johns, Henry S., Cleveland Heights, Ohio. Basket. 2,420,882; May 20.
- Johns-Manville Corporation, assignee: *See*—  
Cummins, Arthur B.  
Cummins, Arthur B., and Dinkfeld.  
Dinkfeld, August M., and Vleweg.  
Goetze, Frederick W.  
McDermott, Paul F.  
Miles, William S.  
Powell, Edward R.  
Rembert, Ernest W.  
Voigt, Paul A.
- Johns, Robert L., Brooklyn, N. Y. Decorative products comprising glass fibers. 2,422,969; June 24.
- Johnsen, Bjornulf, assignee: *See*—  
Crawshaw, John.
- Johnsen, John H.: *See*—  
Le Roi, Earl J., and Johnsen.
- Johnson, A., & Co., assignee: *See*—  
Agren, Per H. W.
- Johnson, Alan W.: *See*—  
Davies, William H., and Johnson.
- Johnson, Albert, New York, N. Y. Tension equalizing device. 2,417,252; Mar. 11.
- Johnson, Albert L., and S. A. Kraft, assignors to Johnson Power-On Transmission Corporation, St. Paul, Minn. Hydraulic transmission control. 2,415,885; Feb. 18.
- Johnson, Alexander H., Chicago, Ill., assignor of one-half to F. T. Johnson, Milwaukee, Wis. Apparatus for forming bottles and jars. 2,414,306; Jan. 14.
- Johnson, Alexander H., Chicago, Ill., assignor of one-half to F. T. Johnson, Milwaukee, Wis. Cap molder for bottles and jars. 2,428,878; Oct. 14.
- Johnson, Alford C., Winthrop, Mass. Toilet fixture. 2,431,330; Nov. 25.
- Johnson, Alfred A.: *See*—  
Hutchinson, Gilbert E., and Johnson.
- Johnson, Almon A., Forest Hills, N. Y. Towing winch. 2,417,166; Mar. 11.
- Johnson, Arnold E. W.: *See*—  
Messenger, Robert P., and Johnson.
- Johnson, Arnold E. W., Oak Park, Ill., assignor to International Harvester Company. Shelled corn savor for husking devices. 2,419,898; Apr. 29.
- Johnson, Arnold E. W., Oak Park, Ill., assignor to International Harvester Company. Harvester for cutting standing corn stalks and removing ears therefrom. 2,427,861; Sept. 23.
- Johnson, Arnold E. W., Oak Park, and B. M. Hyman, Moline, Ill., assignors to International Harvester Company. Dual corn husking unit for multiple row corn pickers. 2,420,543; May 13.
- Johnson, Arthur A., assignor to Automatic Devices Corporation, Bridgeport, Conn. Holder for cigar lighters. 2,419,950; May 6.
- Johnson, Arthur A., Bridgeport, Conn., assignor to Autographic Register Company, Hoboken, N. J. Pin type paper feeding device. 2,432,967; Dec. 16.
- Johnson, Arthur A., assignor to Casco Products Corporation, Bridgeport, Conn. Electric flatiron. 2,433,124; Dec. 23.
- Johnson, Austin E., Bethune, Colo. Mailbox. 2,416,696; Mar. 4.
- Johnson, Austin S., Chicago, Ill. Brush construction. 2,427,559; Sept. 16.
- Johnson, Ava J., Oakland, M. Souders, Jr., Piedmont, and J. E. Marsland, Sausalito, assignors to Shell Development Company, San Francisco, Calif. Production of toluene. 2,420,883; May 20.
- Johnson, Bernard C., Mundelein, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Evaporator unit. 2,414,952; Jan. 28.
- Johnson, Bernard C., Mundelein, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Breaker strip construction. 2,429,816; Oct. 28.
- Johnson, Bjarni J., Spanish Fork, Utah. Rail joint. 2,431,483; Nov. 25.
- Johnson, Carl E., St. Louis, Mich., and C. E. Adams, Highland, Ind., assignors to Standard Oil Company, Chicago, Ill. Meta-di-tert-butylbenzene. 2,429,691; Oct. 28.
- Johnson, Carl J.: *See*—  
Cary, Philip E., Overholt, Johnson, and Borgerd.
- Johnson, Carl V.: *See*—  
Doyle, Irving W., and Johnson.
- Johnson, Carl V., Kew Gardens, and W. G. Herbstreit, Forest Hills, N. Y., assignors to Fairchild Camera and Instrument Corporation. Control mechanism for camera motors. 2,424,276; July 22.
- Johnson, Carl W., Kent, Wash. Chain saw filing rack. 2,415,137; Feb. 4.
- Johnson, Charles E., Memphis, Tenn. Holder and dispenser for toothpicks. 2,414,230; Jan. 14.
- Johnson, Charles E., North Muskegon, Mich. Tappet screw. 2,427,560; Sept. 16.
- Johnson, Charles E., Belmont, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Splitting machine. 2,423,500; July 8.
- Johnson, Charles H., assignor to Gisholt Machine Company, Madison, Wis. Air cylinder. 2,415,181; Feb. 4.
- Johnson, Charles H., assignor to Gisholt Machine Company, Madison, Wis. Air chuck. 2,422,785; June 24.
- Johnson, Charles R.: *See*—  
Handforth, Stanley L., and Johnson.
- Johnson, Chester W., Bridgewater, Mass. Producing sleep by creating the illusion of a winking eye. 2,425,538; Aug. 12.
- Johnson, Clarence, South Euclid, Ohio, assignor to Bailey Meter Company. Gas analyzer. 2,420,430; May 13.
- Johnson, Clarence, South Euclid, Ohio, assignor to Bailey Meter Company. Machine tool control. 2,422,681; June 24.
- Johnson, Clarence, South Euclid, Ohio, assignor to Bailey Meter Company. Machine tool control. 2,422,682; June 24.
- Johnson, Clarence L., Encino, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Auxiliary fuel tank. 2,421,699; June 3.
- Johnson, Clarence V., Yates Center, Kans. Foldable baby car. 2,422,241; June 17.
- Johnson, Clarence W.: *See*—  
Evans, Albert M., Johnson and Molle.
- Johnson, Claus J., Columbus, Ohio, assignor to The Jeffrey Company. Device for guiding flow of material in magnetic separators. 2,426,352; Aug. 26.
- Johnson, Conrad B., Eau Claire, Wis. Cushion grip for air hammers and the like. 2,425,245; Aug. 5.
- Johnson Corporation, The, assignee: *See*—  
Monroe, Rollo O., and Hieronymus.
- Johnson, Corydon M., Freeport, N. Y. Universal joint. 2,425,809; Aug. 19.
- Johnson, David W., New Britain, assignor to The Arrow-Hart & Hegeman Electric Co., Hartford, Conn. Electric switch. Re. 22,856; Mar. 25.
- Johnson, David W., New Britain, assignor to The Arrow-Hart & Hegeman Electric Co., Hartford, Conn. Push-pull switch. 2,423,387; July 1.
- Johnson, B. H., assignee: *See*—  
Cornelius, George W.
- Johnson, Ellis M., Chicago, Ill. Collapsible drying rack. 2,430,571; Nov. 11.
- Johnson, Esmond E., Upper Darby, assignor to International Resistance Company, Philadelphia, Pa. Volume control construction. 2,415,497; Feb. 11.
- Johnson, Ethel S., Flushing, N. Y. Window. 2,430,124; Nov. 4.
- Johnson, Everett A., Park Ridge, assignor to Standard Oil Company, Chicago, Ill. Method and apparatus for logging wells. 2,415,636; Feb. 11.
- Johnson, Everett A., Park Ridge, assignor to Standard Oil Company, Chicago, Ill. Production of alkylaromatics. 2,421,331; May 27.



- Johnson, Everett A., Park Ridge, assignor to Standard Oil Company, Chicago, Ill. Catalytic conversion and catalyst drying. 2,424,467; July 22.
- Johnson, Everett C., Berwyn, assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill. Hat carton. 2,414,203; Jan. 14.
- Johnson Fare Box Company, assignee: *See*—Thompson, Ernest H.
- Johnson, Frank E., Malden, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Shiftable rotary operative fastener attaching unit. 2,420,042; May 6.
- Johnson, Frank E., Malden, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Rotary operative fastener and installation therefor. 2,422,304; June 17.
- Johnson, Frank H., Jr., New York, N. Y. Cleaning device for chimneys or the like. 2,430,512; Nov. 11.
- Johnson, Franklin D., Battle Creek, Mich. Abrading machine. 2,431,939; Dec. 2.
- Johnson, Fred H., Pleasant Ridge, and C. F. Leathers; said Leathers assignor to Progressive Welder Company, Detroit, Mich. Apparatus for welding. 2,429,186; Oct. 14.
- Johnson, Frederick F., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Star-delta motor controller. 2,422,906; June 24.
- Johnson, Frederick T., assignee: *See*—Johnson, Alexander H.
- Johnson, Frithiof V.: *See*—Hansen, Albert, Jr., Jewell, Johnson, and Porter.
- Johnson, Frithiof V., Scotia, N. Y., assignor to General Electric Company. Gyroscopic device. 2,417,689; Mar. 18.
- Johnson, George C., Woodbury, N. J., assignor to Socony Vacuum Oil Company, Incorporated. Interpolymerization of isobutene and isoprenes in the presence of sulfuric acid. 2,421,422; June 3.
- Johnson, George E., Paynesville, Minn. Electric current arrester. 2,427,460; Sept. 16.
- Johnson, George V., assignor to Hyster Company, Portland, Oreg. Lift truck. 2,428,223; Sept. 30.
- Johnson, George W., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Garment finishing apparatus. 2,421,203; May 27.
- Johnson, George W., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Stretching and drying device. 2,426,614; Sept. 2.
- Johnson, Gordon, Company, assignee: *See*—Johnson, Gordon W.
- Johnson, Gordon W., Raytown, assignor to Gordon Johnson Company, Kansas City, Mo. Poultry plucking machine. 2,429,628; Oct. 28.
- Johnson, Gordon W., Overland Park, Kans., assignor to Gordon Johnson Company, Kansas City, Mo. Fowl plucking machine. 2,432,523; Dec. 16.
- Johnson, Harold J., assignor to The Gates Rubber Company, Denver, Colo. Picker stick check straps. 2,426,353; Aug. 26.
- Johnson, Harold M., Toledo, Ohio. Valve closure flap. 2,418,975; Apr. 15.
- Johnson, Harry L., Minneapolis, Minn. Hydraulic tractor loader. 2,427,461; Sept. 16.
- Johnson, Henry R., Branchville, Md. Electric circuit controller. 2,414,307; Jan. 14.
- Johnson, Henry R., New Orleans, La. Hoist. 2,430,340; Nov. 4.
- Johnson, Herbert B. and R. H., assignors to Ritter Products Corporation, Rochester, N. Y. Wiper for rotary electrodes. 2,428,224; Sept. 30.
- Johnson, Herbert G., Haverford Township, Delaware County, Pa., assignor to Zallea Brothers & Johnson, Wilmington, Del. Valve control for oil fuel heaters. 2,414,953; Jan. 28.
- Johnson, Herbert L., Peabody, Mass. Apparatus for flanging pipes inwardly or outwardly. 2,427,003; Sept. 9.
- Johnson, Herbert L., Media, H. G. Voelker, Philadelphia, and A. P. Stuart, Norwood, assignors to Sun Oil Company, Philadelphia, Pa. Polymerization of butadiene. 2,431,403; Nov. 25.
- Johnson, Herbert P., Minneapolis, Minn. Mail box for walls. 2,426,271; Aug. 26.
- Johnson, Herbert R.: *See*—White, Martin H., and Johnson.
- Johnson, Herman K., Grand Haven, Mich., assignor to The Bastian Blessing Company, Chicago, Ill. Refrigerated soda fountain cabinet. 2,418,715; Apr. 8.
- Johnson, Hubert C., Thakeham, Pulborough, England. Spreader for fertilizers and the like. 2,430,020; Nov. 4.
- Johnson, Hugo H., Ely, Minn. Tack hammer. 2,433,223; Dec. 23.
- Johnson, J. Chester, assignee: *See*—Etchier, Robert B.
- Johnson, James M., New York, N. Y., assignor to Nostrup Inc. Higher fatty acid polyamine soaps. 2,419,404; Apr. 22.
- Johnson, James M., New York, N. Y., assignor to Nostrup, Inc. Bituminous composition having increased adhesion to mineral aggregate. 2,426,220; Aug. 26.
- Johnson, James N., assignee: *See*—McClain, Marvin P.
- Johnson, James O.: *See*—Buchanan, Stephen N., and Johnson.
- Johnson, James P., Cleveland, assignor to The Aro Equipment Corporation, Bryan, Ohio. Check valve. 2,419,318; Apr. 22.
- Johnson, James P., Cleveland, assignor to The Aro Equipment Corporation, Bryan, Ohio. Diaphragm cover for oxygen regulators. 2,421,700; June 3.
- Johnson, James P., Shaker Heights, Ohio, assignor to The Aro Equipment Corporation. Coupling. 2,425,539; Aug. 12.
- Johnson, James P., Shaker Heights, Ohio, assignor to The Aro Equipment Corporation. Rotary pump with resilient end wall. 2,427,606; Sept. 16.
- Johnson, Jay D., Peoria, Ill., assignor to John Deere Tractor Company, Waterloo, Iowa. Hydraulic mechanism. 2,415,498; Feb. 11.
- Johnson, Joe E., Jr., Nashville, Tenn. Glass cutter sharpener. 2,433,049; Dec. 23.
- Johnson, John A.: *See*—Altorfer, Hans A., and Johnson.  
Hagemann, John R., and Johnson.
- Johnson, John A., Brown Edge, Stoke-on-Trent, England. Elevator type means for drying ceramic ware. 2,423,030; June 24.
- Johnson, John A., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Bearing support. 2,414,814; Jan. 28.
- Johnson, John C., Winchester, Va. Faller arm for spinning mules. 2,416,627; Feb. 25.
- Johnson, John J.: *See*—Bucher, Simon, and Johnson.
- Johnson, John K., Deerfield, assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Electronic switch. 2,426,454; Aug. 26.
- Johnson, John L., Catonsville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Winding coils. 2,431,045; Nov. 18.
- Johnson & Johnson, assignee: *See*—Maschi, Joseph N.  
Nelson, William L., and Morris.
- Johnson, Joseph E., Islington, Mass. Necktie. 2,422,419; June 17.
- Johnson, Kenneth S., South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission line with active networks. 2,424,238; July 22.
- Johnson, Lauren L., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Apparatus for and method of starting an electric valve converting system. 2,428,332; Sept. 30.
- Johnson, Lauren L., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electric valve converting system and operating the same. 2,433,563; Dec. 30.
- Johnson, Lauren L., La Grange, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Induction heating system with alternately energized coaxial conductors. 2,430,640; Nov. 11.
- Johnson, Leonard E., and M. L. Oglesby, Denver, Colo. Prosthetic denture correlator. 2,430,177; Nov. 4.
- Johnson, Louis E., Huntsville, Ala. Electroinertia brake. 2,414,879; Jan. 28.
- Johnson, Malcolm S., assignor to Illinois Railway Equipment Company, Chicago, Ill. Combination pipe anchor and branch pipe T. 2,425,189; Aug. 5.
- Johnson, Matthey & Company Limited, assignee: *See*—Box, Ernest R.  
Box, Ernest R., and Kerridge.
- Johnson, Maxwell V.: *See*—Pool, John A., Bartholomew, and Johnson.
- Johnson, Miles E., assignee, et al, trustee: *See*—Melrose, Adolph E.
- Johnson, Montgomery H., Cambridge, Mass., and W. H. Ratliff, Jr., Hempstead, and W. W. Hansen, Garden City, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Wave guide construction. 2,433,368; Dec. 30.
- Johnson, Norma C.: *See*—Williams, Albert J., Jr., Tarpley, and Johnson.
- Johnson, Norman A., Lancaster and P. H. Stern, Penn Township, Lancaster County, assignors to Armstrong Cork Company, Lancaster, Pa. Refractory and insulating materials. 2,419,684; Apr. 29.
- Johnson, Olin H.: *See*—Vand Den Bergh, William, Johnson, and Pastoor.
- Johnson, Oliver W.: *See*—Papalexis, James, and Johnson.
- Johnson, Paul P., Willoughby, assignor to Thompson Products, Inc., Cleveland, Ohio. Quick disconnect coupling. 2,421,332; May 27.
- Johnson, Paul R., Claymont, Del., assignor to the United States of America, as represented by the Director of the Office of Scientific Research and Development. Purification of acid potassium fluorides. 2,422,907; June 24.
- Johnson, Paul W., Hartford, Conn. Screw thread analyzer gage. 2,432,160; Dec. 9.
- Johnson, Paul W., Hartford, Conn. Snap type gage. 2,433,516; Dec. 30.
- Johnson Power-On Transmission Corporation, assignee: *See*—Johnson, Albert L., and Kraft.
- Johnson, Ralph H.: *See*—Johnson, Herbert B., and Johnson.
- Johnson, Ralph L., Brockton, Mass. Ink pad for stencil duplicators. 2,424,988; Aug. 5.



- Johnson, Raymond A., Dallas, Tex., assignor, by mesne assignments, to Storm-Vulcan Manufacturing Company, Inc., Minneapolis, Minn. Traversing mechanism for grinding machines. 2,420,081; May 6.
- Johnson, Raymond C., Philadelphia, Pa., assignor, by mesne assignments, to The Anthracite Equipment Corporation, New York, N. Y. Method and apparatus for burning solid fuels. 2,424,755; July 29.
- Johnson Research Corporation, assignee: *See*—Bishop, John A.
- Johnson, Reynold B., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Artillery training apparatus and method. 2,418,512; Apr. 8.
- Johnson, Reynold B., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Punching machine. 2,424,097; July 15.
- Johnson, Robert H., Weston, W. Va. Control apparatus. 2,420,043; May 6.
- Johnson, Roy L., and F. E. Buyken, Seattle, Wash., said Buyken assignor to said Johnson. Rod holder. 2,426,881; Sept. 2.
- Johnson, Roy W., L. V. McCarty, and V. R. Pawelsky, assignors to Automatic Products Company, Milwaukee, Wis. Constant level device. 2,430,719; Nov. 11.
- Johnson, Samuel G.: *See*—Selzer, John, and Johnson.
- Johnson, Samuel W., assignor of one-half to L. M. Gilbert, Panama City, Fla. Dump receptacle. 2,421,701; June 3.
- Johnson, Seth, Farmingdale, N. Y., assignor to Republic Aviation Corporation. Retractable landing gear lock for aircraft. 2,423,501; July 8.
- Johnson, Sonja V., Milford, Conn. Inhalator. 2,417,759; Mar. 18.
- Johnson, Tekla Alvina, Decatur, Ill. Game apparatus. 2,430,681; Nov. 11.
- Johnson, Theodore W., assignor to Deere & Company, Moline, Ill. Quick demountable cultivator. 2,423,148; July 1.
- Johnson, Theodore W., assignor to Deere & Company, Moline, Ill. Cultivator. 2,431,046; Nov. 18.
- Johnson, Thomas H., Elmhurst, N. Y., assignor to American Viscose Corporation, Wilmington, Del. Warp knitted fabric structure. 2,433,279; Dec. 23.
- Johnson, Thomas O., Richmond, Calif. Tie form. 2,430,021; Nov. 4.
- Johnson, Vernon R., and L. W. Wachter, assignors to Anthony Development Company, Streator, Ill. Welder handle. 2,423,324; July 1.
- Johnson, Victor S., assignee: *See*—White, Sidney Y.
- Johnson, Vincent A., Evanston, and F. E. Wood, Oak Park, assignors to Automatic Electric Laboratories, Inc., Chicago, Ill. Magnetic relay. 2,425,190; Aug. 5.
- Johnson, Wallace J. S., Berkeley, Calif. Exercising machine. 2,419,998; May 6.
- Johnson, Wallace M., Pittsfield, Mass., assignor to General Electric Company. Transformer connection. 2,421,299; May 27.
- Johnson, Walter D.: *See*—Foley, Daniel E., and Johnson.
- Johnson, Warren C., Cedar Rapids, Iowa, assignor, by mesne assignments, to Quaker Oats Company. Container sealing apparatus. 2,425,062; Aug. 5.
- Johnson, William B., Easley, S. C. Trailer dolly. 2,431,331; Nov. 25.
- Johnson, William B., Easley, S. C. Pintle. 2,431,694; Dec. 2.
- Johnson, William F.: *See*—Andrews, Arthur E., and Johnson.
- Johnson, William J., Jr.: *See*—Grieshaber, Emil, and Johnson.
- Johnson City Mills, assignee: *See*—Coleman, William.
- Johnson's Company, assignee: *See*—Pharo, Lee C.
- Johnson, Arthur C., Minneapolis, Minn. Accordion folded paper garment bag. 2,432,524; Dec. 16.
- Johnson, Charles S., Glencoe, assignor to Transportation Specialties Co., Chicago, Ill. Running board. 2,433,050; Dec. 23.
- Johnston, Fred D.: *See*—Ensor, Vernon C., and Johnston.
- Johnston, Frederick L.: *See*—Fletcher, David A., and Johnston.
- Johnston, George B., Glendale, Ohio., assignor to The Philip Carey Manufacturing Company. Laminated board. 2,414,533; Jan. 21.
- Johnston, George X., St. Clair, Mich. Cam generating machine. 2,432,161; Dec. 9.
- Johnston, Howard M., assignor to Massey-Harris Co. Ltd., Toronto, Ontario, Canada. Two stage hammer mill. 2,424,316; July 22.
- Johnston, Howard M., assignor to Massey-Harris Co., Ltd., Toronto, Ontario, Canada. Disc tiller. 2,426,354; Aug. 26.
- Johnston, James A., Richmond, Va. Lock. 2,417,167; Mar. 11.
- Johnston, Lawrence M., Indianapolis, Ind. Quick release parachute harness connector. 2,416,757; Mar. 4.
- Johnston, Lawrence M., Indianapolis, Ind., assignor to L. M. Johnston, as trustee. Parachute harness connector. 2,430,341; Nov. 4.
- Johnston, Norman F., Norwalk, Conn., assignor to R. T. Vanderbilt Company, Inc., New York, N. Y. Emulsifying and whipping agents. 2,422,486; June 17.
- Johnston, Richard C., Kenilworth, Ill. Structural member. 2,432,622; Dec. 16.
- Johnston, Robert K., Elizabeth, and J. I. Wasson, Union, N. J., assignors to Standard Oil Development Company. Rust preventing turbine oils. 2,415,353; Feb. 4.
- Johnston, Robert M., South Charleston, W. Va. Airplane propeller. 2,428,225; Sept. 30.
- Johnston, Thomas M., Washington, D. C. Automobile headlight signal indicator. 2,417,501; Mar. 18.
- Johnston, Truman L.: *See*—Bryan, Robert H., and Johnston.
- Johnston, William, executor: *See*—Gridale, George L.
- Johnstone, Charles W., Garden City, N. Y., assignor to Sperry Gyroscope Company, Inc. Phase responsive circuit. 2,419,219; Apr. 22.
- Johnstone, Robert A., Aurora, Ind. Electric water heater. 2,420,175; May 6.
- Johnstone, Robert A., Aurora, Ind. Work centering tool. 2,430,513; Nov. 11.
- Johnstone, Robert M., Bondsville, Pa. Journal structure. 2,423,778; July 8.
- Johnstone, Roy L., San Francisco, and R. F. Downer, Oakland, Calif. Rat guard for ships' cables and lines. 2,421,151; May 27.
- Johnstone, Theodore H., Detroit, Mich., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. 2,426,104; Aug. 19.
- Johnstone, Warren W., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Catalytic cracking of hydrocarbons. 2,426,273; Aug. 26.
- Jokinen, Emil W., Minneapolis, Minn. Mobile apparatus for preparation of hot-water dressing. 2,426,615; Sept. 2.
- Jolk, Lawrence T., Charleston, W. Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Continuous production of esters of methacrylic acid. 2,416,756; Mar. 4.
- Jolley, Jack, Los Angeles, Calif. Hose suspension. 2,418,513; Apr. 8.
- Jolly, Carl H., U. S. Navy. Release mechanism. 2,413,713; Jan. 7.
- Joly, Leon, and L. C. Andres, Paris, France, assignors to International Standard Electric Corporation, New York, N. Y. Electrical signaling system. 2,428,028; Sept. 30.
- Joly, Oscar W., West Springfield, assignor to Springfield Photo Mount Co., Holyoke, Mass. Picture frame. 2,419,187; Apr. 15.
- Jonas, Henry W., Bensenville, Ill. Mason jar sealing means. 2,433,051; Dec. 23.
- Jones, Albert S., Dudley, and G. B. Stackpole, Oxford, Mass., assignors to Cranston Print Works Company, Cranston, R. I. Crinkled fabric and method of producing the same. 2,429,935; Oct. 28.
- Jones, Arthur E., assignor to Posture Research Corporation, Elkhart, Ind. Adjustable chair back. 2,421,702; June 3.
- Jones, Basil E., Flossmoor, Ill., and J. K. Tulley, U. S. Army, assignors to The Pullman Company, Chicago, Ill. Railway sleeping car bed. 2,432,572; Dec. 16.
- Jones, Benjamin R., Jamestown, N. Y. Towel rack. 2,415,637; Feb. 11.
- Jones Box & Label, Ltd., assignee: *See*—Jones, Samuel F., and Plewes.
- Jones, Carl G., Youngstown, Ohio. Brightening tinned strip. 2,420,377; May 13.
- Jones, Cary B., assignor to The Brush Development Company, Cleveland, Ohio. Removable pole pieces for magnetic recording and reproducing heads. 2,432,162; Dec. 9.
- Jones, Cyril E. P., and R. R. Birss, Harrogate, England, assignors to Automatic Electric Laboratories Inc., Chicago, Ill. Electric selective signaling or control system. 2,432,902; Dec. 16.
- Jones, Daniel C., assignor to Kwik-Mix Company, Port Washington, Wis. Material loading and elevating device. 2,431,047; Nov. 18.
- Jones, David G.: *See*—Bremner, John G. M., and Jones.
- Bremner, John G. M., Jones, and Taylor.
- Jones, Douglas E., Harrow, C. E. Ransley, Sudbury, J. W. Ryde, London, W. 14, and S. V. Williams, Kenton, assignors to The General Electric Company, Limited, London, England. Crystal contact of which one element is mainly silicon. 2,419,561; Apr. 29.
- Jones, Edward C., assignor to Institute of Industrial Research, San Antonio, Tex. Tire pressure indicator. 2,429,024; Oct. 14.
- Jones, Edwin C.: *See*—Main-Smith, John D., and Jones.
- Jones, Eldon M.: *See*—Burckhalter, Joseph H., Jones, Rawlins, Tendick, and Holcomb.
- Burckhalter, Joseph H., Rawlins, Tendick, Jones, and Holcomb.
- Jones, Elizabeth T., administratrix: *See*—Jones, Karl M.
- Jones, Elwyn: *See*—Payn, Russell C., Jones, and Flanders.



- Jones, Elwyn, Ardrossan, and J. Flanders, West Kilbride, Scotland, assignors to Imperial Chemical Industries Limited, Fire extinguisher. 2,426,024; Aug. 19.
- Jones, Elwyn T., Eltham, London, England, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Automatic volume control in voice frequency circuits. 2,416,321; Feb. 25.
- Jones, Ewart R. H., London, and J. T. McCombie, Manchester, England, assignors to Imperial Chemical Industries Limited, 1-alkoxy-2,4-pentadienes and substituted derivatives thereof. 2,429,411; Oct. 21.
- Jones, Frederick M., assignor to U. S. Thermo Control Co., Minneapolis, Minn. Two-cycle gas engine. 2,417,253; Mar. 11.
- Jones, George F., Highgate, London, assignor of two-thirds to G. Q. Parachute Company, Woking, Surrey, England. Load coupling device for parachutes. 2,421,152; May 27.
- Jones, George M., Jenkintown Manor, assignor to Ace Manufacturing Corporation, Philadelphia, Pa. Knife sharpener. 2,426,934; Sept. 2.
- Jones, Gomer W.: *See*—  
Roby, Horace H., and Jones.
- Jones, Gould, Jasper, Ark. Draft hitch for vehicles. 2,428,226; Sept. 30.
- Jones, Harry S., Washington, D. C., assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring and controlling apparatus. 2,429,466; Oct. 21.
- Jones, Hilten E., Detroit, Mich., assignor to Eureka Williams Corporation. Rocket projectile. 2,421,752; June 10.
- Jones, Homer W., Westfield, and E. Meincke, Scotch Plains, N. J., assignors to The Linde Air Products Company. Semiautomatic electrical timing apparatus. 2,415,886; Feb. 28.
- Jones, Howard A.: *See*—  
Travis, Bernard V., and Jones.
- Jones, Howard A., Orlando, Fla., and R. C. Bushland, Fort Worth, Tex., assignors to United States of America as represented by the Secretary of Agriculture. Pyrethrin and dibenzyl phthalate insecticide. 2,428,494; Oct. 7.
- Jones, Howard A., Orlando, Fla., and R. C. Bushland, Fort Worth, Tex., assignors to United States of America, as represented by the Secretary of Agriculture. Pyrethrin and dialkoxyalkyl phthalate insecticide. 2,429,818; Oct. 28.
- Jones, Insley P.: *See*—  
Hibshman, Henry J., and Jones.  
Willauer, Earl E., and Jones.
- Jones, Ira M., assignee: *See*—  
Brooks, Lewis C.
- Jones, Jack J., Zillah, Wash. Rapid sack detaching device. 2,423,325; July 1.
- Jones, Jean E.: *See*—  
Allen, Charles F. H., and Jones.  
Van Allan, James A., and Jones.
- Jones, Jean P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Manufacture of diolefins. 2,421,506; June 3.
- Jones, John L., Schenectady, N. Y., assignor to General Electric Company. Selective pulse amplifier system. 2,416,089; Feb. 18.
- Jones, John M., and F. T. Connell, deceased, London, by I. L. Connell, administratrix, Southwick, assignor to the Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England. Fuzing unit for use in dropping bombs from aircraft. 2,424,618; July 29.
- Jones, John P., Brownsville, Tex. Wrench for shielded spark plugs. 2,417,593; Mar. 18.
- Jones, Joseph C., Memphis, Tenn. Signal device for mailboxes. 2,424,661; July 29.
- Jones, Karl M., deceased, by E. T. Jones, administratrix, Garrison, N. Y. Combined screening and gravity liquid separation apparatus. 2,423,651; July 8.
- Jones & Lamson Machine Company, assignee: *See*—  
Batchelder, James W.  
Flanders, Ralph E.  
Lovely, John E.
- Jones & Laughlin Steel Corporation, assignee: *See*—  
Woolter, Robert A., and Smith.
- Jones, Leo D.: *See*—  
Serrell, John J., and Jones.
- Jones, Lewis H., Chicago, Ill., assignor to Wingfoot Corporation, Akron, Ohio. Packaging cheese curd. 2,424,693; July 29.
- Jones, Lewis R.: *See*—  
Shuttleworth, Howard L., Underwood, and Jones.
- Jones, Lloyd, assignor to M. S. Jones, North East, Pa. Hauling device. 2,424,694; July 29.
- Jones, Lloyd B., Hollidaysburg, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Hot bearing box detection means. 2,429,817; Oct. 28.
- Jones, Margaret S., assignee: *See*—  
Jones, Lloyd.
- Jones, Maurice F., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Current collector. 2,422,554; June 17.
- Jones, Maurice F., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Linear-motor catapult structure. 2,428,570; Oct. 7.
- Jones, Minor C. K., Mountainside, N. J., assignor to Standard Oil Development Company. Removal of mercaptans from petroleum naphtha. 2,420,544; May 13.
- Jones, Nelson M., assignor to Green's Fuel, Incorporated, Sarasota, Fla. Producing ebullition in liquefied petroleum gases. 2,416,924; Mar. 4.
- Jones, Oscar V., Dallas, Tex. Pivoted jaw latch-grip pipe tongs. 2,423,326; July 1.
- Jones, Paul C., Chagrin Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Preparing unsubstituted mercaptothiazole. 2,426,397; Aug. 26.
- Jones, Paul C., Silver Lake, and R. A. Mathes, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Vulcanization of rubber or the rubbery copolymer of butadiene and styrene. 2,424,175; July 15.
- Jones, Paul R., Piedmont, assignor to Shell Development Company, San Francisco, Calif. Horticultural spray oil. 2,421,507; June 3.
- Jones, Paul T., Elizabethton, Tenn., assignor to American Benberg Corporation, New York, N. Y. Thread guide. 2,431,695; Dec. 2.
- Jones, Peter: *See*—  
Quayle, Joshua C., Jones, and Bayles.
- Jones, Philip H., Redondo Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Treating drilling muds. 2,433,668; Dec. 30.
- Jones, Raymond H.: *See*—  
McKenzie, Alexander C., and R. H. and R. J. Jones.
- Jones, Reginald J.: *See*—  
McKenzie, Alexander C., and R. H. and R. J. Jones.
- Jones, Richard, assignor to Walt Disney Productions, Burbank, Calif. Register pin mechanism. 2,418,943; Apr. 15.
- Jones, Robert L., Swissvale, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Dynamo-electric machine. 2,424,317; July 22.
- Jones, Robert M.: *See*—  
Gwaltney, Eugene C., Jones and Rabasa.
- Jones, Samuel F., and W. W. Plewes, assignors to Jones Box & Label, Ltd., London, Ontario, Canada. Packing tray for capsules and the like. 2,429,063; Oct. 14.
- Jones, Tempest B., assignee, et al.: *See*—  
Hatch, Francis E.
- Jones, Theodore C., Louisville, Ky. Electrolytic water purifier. 2,425,424; Aug. 12.
- Jones, Thomas C., Philadelphia, Pa. Rear axle support for a four-wheel drive. 2,428,281; Sept. 30.
- Jones, Thomas F.: *See*—  
Hayes, Harvey C., Trent, and Jones.
- Jones, Thomas R., Chicago, assignor of one-fifth to J. P. Smith, Oak Park, Ill. Floating toolholder. 2,416,586; Feb. 25.
- Jones, Wallace T., New York, assignor to Rockwood & Co., Brooklyn, N. Y. Disc type shell cracking apparatus for cocoa beans. 2,417,078; Mar. 11.
- Jones, Wallace T., New York, assignor to Rockwood & Co., Brooklyn, N. Y. Treating chocolate liquor. 2,426,616; Sept. 2.
- Jones, Wallace T., New York, and B. J. Zenlea, Ozone Park, assignors to Rockwood & Co., Brooklyn, N. Y. Treating cocoa beans. 2,428,802; Oct. 14.
- Jones, Wanna, Montvale, N. J. Convertible glove. 2,418,887; Apr. 15.
- Jones, William A., Ottawa, Ontario, Canada. Heating appliance. 2,415,182; Feb. 4.
- Jones, William A., assignor to Continental Oil Company, Ponca City, Okla. Lubricating composition. 2,417,826; Mar. 25.
- Jones, William A., assignor to Continental Oil Company, Ponca City, Okla. Lubricating composition. 2,417,827; Mar. 25.
- Jones, William D., Houston, Tex., assignor to Link Aviation Devices, Inc., Binghamton, N. Y. Locking device for aviation trainers. 2,417,554; Mar. 18.
- Jones, William L., Jr., Schenectady, N. Y., assignor to General Electric Company. Photoelectric discharge device. 2,422,970; June 24.
- Jones, William O.: *See*—  
Haddock, Norman H., Jones, Parkinson, and Rowe.
- Jonsson, Johan A., assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Workmans time recorder. 2,430,402; Nov. 4.
- Jordan, Arthur M., Pinelawn, N. Y. Amusement device. 2,413,831; Jan. 7.
- Jordan, Claude W., Paoli, Pa., assignor to The United Gas Improvement Company. Purifying styrene. 2,423,388; July 1.
- Jordan, Claude W., Paoli, Pa., assignor to The United Gas Improvement Company. Purifying an aryl olefine having the styrene structure as a nucleus. 2,423,389; July 1.
- Jordan, Francis O., Grosse Pointe Farms, Mich. Hydraulic transmission. 2,430,614; Nov. 11.
- Jordan, Henry H., New York, N. Y. Abduction splint. 2,415,288; Feb. 4.
- Jordan, John P., Scotia, N. Y., assignor to General Electric Company. High-frequency heating apparatus. 2,429,819; Oct. 28.
- Jordan, Lawrence F., Oakland, Calif. Convertible airplane adapted for horizontal, vertical, and hovering flight. 2,419,780; Apr. 29.
- Jordan, Richard H., Mansfield, Ohio, assignor to Dominion Electrical Manufacturing, Inc. Fan gear assembly. 2,417,303; Mar. 11.



- Jordan, Richard H., Mansfield, Ohio, assignor to Dominion Electrical Manufacturing, Inc. Thermostatic switch. 2,418,647; Apr. 8.
- Jordan, Richard H., Mansfield, Ohio, assignor to Dominion Electrical Manufacturing, Inc. Latch mechanism for appliances. 2,431,332; Nov. 25.
- Jørgensen, Anders O.: *See—*  
Werner, Sture E., and Jørgensen.
- Jørgensen, Anders O., assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Self-starting single-phase motor. 2,432,573; Dec. 16.
- Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe machine. 2,420,665; May 20.
- Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,423,454; July 8.
- Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Gun-loading mechanism. 2,425,425; Aug. 12.
- Jorgensen, Clarence H., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Automatic choke mechanism and choke valve. Re. 22,840; Feb. 11.
- Jorgensen, Clarence H., and L. C. Dermond, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Engine controller. 2,432,903; Dec. 16.
- Jorgensen, Julius, Detroit, Mich. Coin counting and sorting machine. 2,423,502; July 8.
- Jorgenson, John P., Wilmette, assignor to Kling Bros. Engineering Works, Chicago, Ill. Garment unloading device. 2,425,618; Aug. 12.
- Jorgenson, John P., Wilmette, assignor to Kling Bros. Engineering Works, Chicago, Ill. Tumbler type clothes washer having releasable band drain. 2,426,455; Aug. 26.
- Jorgenson, John P., Wilmette, and A. G. Kling, assignors to Kling Bros. Engineering Works, Chicago, Ill. Extractor. 2,428,710; Oct. 7.
- Jork, Walter, Montreal, Quebec, Canada. Ash tray. 2,424,695; July 29.
- Josefiak, John N., Buffalo, N. Y. Self-locking awning operating device. 2,432,574; Dec. 16.
- Josefowitz, David, New York, N. Y., assignor to Publicker Industries Inc. Polymerizing conjugated butadienes in the presence of a hexa-aryl ethane and products thereof. 2,420,750; May 20.
- Joseph, Carl, Paterson, N. J. Yarn holder support. 2,432,904; Dec. 16.
- Joseph, Harrison O., Los Angeles, Calif. Combined tie press and holder. 2,415,247; Feb. 4.
- Josephowitz, David: *See—*  
Rosin, Jacob, and D. and S. Josephowitz.
- Josephowitz, Samuel: *See—*  
Rosin, Jacob, and D. and S. Josephowitz.
- Josephson, Harold A., Princeton, Ill. Attachment for tractors. 2,415,744; Feb. 11.
- Josh, George: *See—*  
Hopkins, Ervin W., Josh, and Harriman.
- Joslyn Manufacturing and Supply Company, assignee: *See—*  
Yonkers, John L.
- Joslyn, Myron C., Anadarko, Okla. Material feeder. 2,416,099; Feb. 18.
- Jovanovich, Milton: *See—*  
Wharam, John J., and Jovanovich.
- Jowett, John A., Scottsville, N. Y. Gun swab or cleaner. 2,420,044; May 6.
- Joy, Joseph F., Washington, D. C. Journal seal. 2,415,887; Feb. 18.
- Joy, Joseph F., Washington, D. C. Sealing device. 2,415,888; Feb. 18.
- Joy, Joseph F., Washington, D. C. Fluid seal. 2,417,828; Mar. 25.
- Joy, Joseph F., Claremont, N. H. Hydraulic wheel motor for vehicles. 2,418,123; Apr. 1.
- Joy, Joseph F., Claremont, N. H. Gun positioning system. 2,425,329; Aug. 12.
- Joy, Joseph F., Claremont, N. H., and D. A. Gurney, Cheverly, Md. Hydro-pneumatic recuperator for guns. 2,420,666; May 20.
- Joy Manufacturing Company, assignee: *See—*  
Ball, Charles F.  
Ferguson, Alexander D.  
Gartin, Elmer G.  
Mavor, John B.  
Osgood, Charles F.  
Osgood, Robert C.  
Paget, Win W.  
Simmons, Leon E.  
Troller, Theodor H., and Jenkins.  
Vanderzee, Harry H.  
Wineman, Wade H.
- Joyce, Asa W.: *See—*  
Scalera, Mario, and Joyce.
- Joyce, Francis J., Keyport, N. J. Strand winding apparatus. 2,421,269; May 27.
- Joyce, Robert M., Jr., Marshallton, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyhalogeno aliphatic nitriles. 2,425,426; Aug. 12.
- Joyce, William J., Jr., Manheim, Pa., assignor to Raybestos-Manhattan, Inc., Passaic, N. J. Asbestos fiberizing apparatus. 2,417,599; Mar. 18.
- Joyce, William J., assignor to American Optical Company, Southbridge, Mass. Means for unblocking lenses. 2,421,753; June 10.
- Joyce, William J., Sturbridge, assignor to American Optical Company, Southbridge, Mass. Making ophthalmic lenses. 2,429,692; Oct. 28.
- Judd, Charles H., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Closure device. 2,422,420; June 17.
- Judge, Franklin, Greenfield, Mass. Machine for chamfering dies. 2,414,377; Jan. 14.
- Judge, Thomas J., assignor to General Railway Signal Company, Rochester, N. Y. Light signal for railroads. 2,419,265; Apr. 22.
- Judge, Thomas J., assignor to General Railway Signal Company, Rochester, N. Y. Remote-control system for railway signals. 2,424,696; July 29.
- Judisch, Carl H., assignor to The Whitney Blake Company, Hamden, Conn. Anchor for plural electric conductors. 2,421,456; June 3.
- Judkins, George H., Berwyn, Ill., assignor to International Harvester Company. Filter element. 2,427,862; Sept. 23.
- Juergens, Carl H., Milwaukee, Wis. Building wall structure. 2,425,619; Aug. 12.
- Jufe, Bernard, New York, N. Y. Chair construction. 2,415,889; Feb. 18.
- Juhasz, James G., Chicago, Ill. Circuit control device. 2,414,470; Jan. 21.
- Juhasz, Stephen, Denver, Colo., assignor of fifty-one per cent to O. Menachof. Filter comprising a sediment trap and drain outlet. 2,424,932; July 29.
- Julian & Kokenge Company, The, assignee: *See—*  
Schlecht, Frederick H.
- Julian, Percy L., Maywood, J. W. Cole, and E. W. Meyer, Chicago, Ill., assignors to The Glidden Company, Cleveland, Ohio. Amines in the 1-steroid series. 2,428,368; Oct. 7.
- Julian, Percy L., Maywood, J. W. Cole, Chicago, A. Magnani, Wilmette, and E. W. Meyer, Chicago, Ill., assignors to The Glidden Company, Cleveland, Ohio. 3-amino-derivatives of steroids and making same. 2,430,467; Nov. 11.
- Julian, Renne S., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wide range tuner for cavity resonators. 2,418,839; Apr. 15.
- Juliano, Egidio H., Necochea, Argentina. Machine for continuous dry powdering or curing seeds and grain. 2,413,976; Jan. 7.
- Julich, Edward M., Old Tappan, N. J., and W. A. Mehmehl, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electroplating silver on aluminum and its alloys. 2,430,468; Nov. 11.
- Jumonville, Edward, New Orleans, La. Mop holder. 2,431,564; Nov. 25.
- Jung, Erwin P., Paris, France, vested in the Attorney General of the United States. Device for regulating the temperature of electric furnaces of the resistance type. 2,422,734; June 24.
- Jung, William, Forest Hills, N. Y. Fastener for adjoining sheets or plates. 2,421,204; May 27.
- Jungk, Herbert G., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Equalized single-phase traction motor. 2,424,318; July 22.
- Junkin, Hays M., executor, assignee, et al.: *See—*  
Hibbard, Robert L.
- Juppenlatz, John W.: *See—*  
Sullivan, William B., and Juppenlatz.
- Juratt, John W. K., Glendale, Calif. Latching device. 2,423,980; July 15.
- Jurs, Peter C., Piedmont, Calif., assignor to Shand and Jurs Company. Flame arrester. 2,420,599; May 13.
- Jury, Edward J., Clearfield, Pa., assignor to H. J. Craft, Akron, Ohio. Folding step for ladders. 2,415,289; Feb. 4.
- Jury, Frank W., Milwaukee, Wis. Gear cutting machine. 2,426,774; Sept. 2.
- Justi, R. D. & Son, Inc., assignee: *See—*  
Slack, Fred A., Jr.
- Justin, Bertha, Portland, Oreg. Sanitary sink basket. 2,426,025; Aug. 19.
- Jutte, William B., Hollywood, Calif. Multistage radial flow turbine. 2,417,600; Mar. 18.
- Juinall, James W., LaGrange Park, and J. S. Stull, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Material forming apparatus. 2,415,499; Feb. 11.
- Kaberg, Russell A.: *See—*  
Flenner, Albert L., and Kaberg.
- Kackley, Flora M., Faversham, England, and J. Whitman, Great Neck, N. Y.; said Whitman assignor to said Kackley. Powder box. 2,413,923; Jan. 7.
- Kaczmarek, Stephen J., Toledo, Ohio. Jar closure means. 2,433,761; Dec. 30.
- Kaczor, Anthony: *See—*  
Golaszewski, Walter M., and Kaczor.
- Kaddeland, Christen R., Shelton, Conn., assignor to Harris-Seybold Company. Printing press. 2,425,680; Aug. 12.
- Kaden, Max, New York, N. Y. Tie holder. 2,423,561; July 8.
- Kadenacy, Michel, assignee: *See—*  
Mansfield, Wilfred P., and White.



- Kadz, Harald D., Glendale, Calif., assignor to Kay-Brunner Steel Products, Inc. Winch. 2,417,502; Mar. 18.
- Kadz, Harald D., Glendale, Calif., assignor to Kay-Brunner Steel Products, Inc. Carrying scraper. 2,418,554; Apr. 8.
- Kaefer, John G., Jr.: *See*—  
Woodyard, Livie D. C., Tyler, and Kaefer.
- Kaelin, Henry F., Los Angeles, Calif. Automatic control electrical generating systems. 2,427,462; Sept. 16.
- Kaemmerling, Gustav H., Erie, assignor to Lord Manufacturing Company, Erie, Pa. Joint. 2,414,743; Jan. 21.
- Kaemmerling, Gustav H., assignor to Lord Manufacturing Company, Erie, Pa. Rubber mounting. 2,422,683; June 24.
- Kagley, William H., assignor to Lindsay Ripe Olive Company, Lindsay, Calif. Cap embossing device. 2,425,374; Aug. 12.
- Kagy, John F., and D. T. Prendergast, Long Beach, Calif., assignors to The Dow Chemical Company, Midland, Mich. Maturing cotton. 2,416,259; Feb. 18.
- Kagy, John F., Long Beach, and K. D. Sloop, Yorba Linda, Calif., assignors to The Dow Chemical Company, Midland, Mich. Fungicide compositions. 2,430,342; Nov. 4.
- Kahanek, Henry J., Dallas, Tex. Fuse changer. 2,418,773; Apr. 8.
- Kahl, Joseph, New York, N. Y. Psychrometer. 2,431,757; Dec. 2.
- Kahl, Joseph, New York, N. Y. One piece thermometer case. 2,431,805; Dec. 2.
- Kahn, Albert, assignee: *See*—  
Roe, James.
- Kahn, Alfred, Queen's Village, N. Y., and C. N. Harris, Trenton, N. J., assignors to Radio Corporation of America. Telegraphic keying bias adjuster. 2,425,063; Aug. 5.
- Kahn, Alfred, Hollis, and J. C. Phelps, Malverne, N. Y., and J. A. Spencer, Teaneck, N. J., assignors to Radio Corporation of America. Electromechanical phasing device. 2,431,643; Nov. 25.
- Kahn, James M., Atlanta, Ga., and E. Kominek, Jr., assignors to Inflico Incorporated, Chicago, Ill. Treatment of pickle liquor. 2,433,458; Dec. 30.
- Kahn, Joseph, Chicago, Ill. Attachment for metallic leaf applying presses. 2,428,879; Oct. 14.
- Kahn, Leo M., Island Park, N. Y. Reciprocable double buck laundry press. 2,431,123; Nov. 18.
- Kahn, Phil B., Guernwood Park, Calif. Rule guided point marker. 2,423,779; July 8.
- Kahn, Samuel, Bridgeport, Conn., assignor to Manning Maxwell & Moore, Incorporated, New York, N. Y. Mounting dial instruments. 2,422,908; June 24.
- Kahn, Samuel, Bridgeport, Conn., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y. Manually adjustable indicator for dial instruments. 2,425,941; Aug. 19.
- Kaiser, Donald W.: *See*—  
Thurston, Jack T., and Kaiser.
- Kaiser, Donald W., Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparation of guanides. 2,431,644; Nov. 25.
- Kaiser, Donald W., and J. T. Thurston, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y. Guanides and their preparation. 2,418,944; Apr. 15.
- Kaiser, Donald W., and J. T. Thurston, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y. Sulfonyl dicyandiamides and their preparation. 2,426,882; Sept. 2.
- Kaiser, Erwin J., Fond du Lac, Wis., and J. Dauber, Chicago, Ill., assignors to Giddings & Lewis Machine Tool Co., Fond du Lac, Wis. Telescope. 2,416,697; Mar. 4.
- Kaiser Fleetwings, Inc., assignee: *See*—  
Courtney, Wilbur E.  
Griswold, Owen H.
- Kaiser, William E., Bison, Kans. Auxiliary propulsion means for combines or the like. 2,431,758; Dec. 2.
- Kalajian, Harry J., assignor to Harley C. Loney Company, Detroit, Mich. Airplane wheel balancing weight. 2,433,762; Dec. 30.
- Kalamazoo Stove & Furnace Company, assignee: *See*—  
Salter, Shirley C., Lang, and Cook.
- Kalamazoo Vegetable Parchment Company, assignee: *See*—  
Elsman, James L.
- Kalart Company, Inc., The, assignee: *See*—  
Schwartz, Morris, and Castedello.
- Kalb, George H.: *See*—  
Burk, Robert E., Coffman, and Kalb.
- Kalb, John W., Pittsfield, Mass., assignor to General Electric Company. Protective gap device. 2,414,308; Jan. 14.
- Kalichevsky, Vladimir A.: *See*—  
Lee, Russell, Noll, and Kalichevsky.
- Kalischer, Milton, Longmeadow, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Secondary refrigerating apparatus. 2,433,188; Dec. 23.
- Kalitinsky, Andrew, Eagleville, assignor to United Aircraft Corporation, East Hartford, Conn. Accumulator pump. 2,414,261; Jan. 14.
- Kalitinsky, Andrew, Eagleville, assignor to United Aircraft Corporation, East Hartford, Conn. Scavenge system. 2,414,744; Jan. 21.
- Kalitinsky, Andrew, Eagleville, assignor to United Aircraft Corporation, East Hartford, Conn. Hydraulic restraining mechanism for free-piston units. 2,414,745; Jan. 21.
- Kalitinsky, Andrew, Eagleville, assignor to United Aircraft Corporation, East Hartford, Conn. Injection timing. 2,420,431; May 13.
- Kalitinsky, Andrew, Eagleville, assignor to United Aircraft Corporation, East Hartford, Conn. Electrical injection timing. 2,420,432; May 13.
- Kalitinsky, Andrew, Eagleville, assignor to United Aircraft Corporation, East Hartford, Conn. Indicator for free piston units. 2,420,483; May 13.
- Kalitinsky, Andrew, Eagleville, assignor to United Aircraft Corporation, East Hartford, Conn. Gas valve. 2,421,839; June 10.
- Kalitinsky, Andrew, Eagleville, assignor to United Aircraft Corporation, East Hartford, Conn. Stroke control for free-piston units. 2,426,307; Aug. 26.
- Kalitinsky, Andrew, Eagleville, assignor to United Aircraft Corporation, East Hartford, Conn. Stroke control for free-piston units. 2,426,308; Aug. 26.
- Kalitinsky, Andrew, Eagleville, assignor to United Aircraft Corporation, East Hartford, Conn. Assembly of engine-and-compressor units. 2,426,309; Aug. 26.
- Kalitinsky, Andrew, Eagleville, and W. A. Ledwith, Hartford, assignors to United Aircraft Corporation, East Hartford, Conn. Engine piston construction. 2,426,310; Aug. 26.
- Kalling, Bo M. S.: *See*—  
Rennerfelt, Ivar, and Kalling.
- Kalling, Bo M. S., Djursholm, S. J. Wallden, Stockholm, and G. Tanner, Sundsvall, assignors to Bolidens Gruvaktiebolag, Stockholm, Sweden. Extracting lead from lead sulphide ores and concentrates. 2,416,628; Feb. 25.
- Kallmann, Heinz E., Boston, Mass. Raster screen. 2,416,056; Feb. 18.
- Kallusky, Clarence E., assignor: *See*—  
Kallusky, Philipp M.
- Kallusky, Philipp M., San Francisco, Calif., assignor of one-half to C. E. Kallusky, Wadena, Minn. Preventing foaming in bottle cleaning apparatus. 2,420,600; May 13.
- Kalman, Ladislaus, assignor of one-half to A. Oschwald and one-half to Alos Aktiengesellschaft, Zurich, Switzerland. Focal field periphery indicating device in photographic apparatus. 2,428,627; Oct. 7.
- Kalmar, Arthur F., Riverside, assignor to Food Machinery Corporation, San Jose, Calif. Potato treating process. 2,417,932; Mar. 25.
- Kalmar, Arthur F., Riverside, assignor to Food Machinery Corporation, San Jose, Calif. Treating potatoes. 2,417,933; Mar. 25.
- Kalmus, Henry P., Chicago, Ill. Radiation meter. 2,424,933; July 29.
- Kalnitz, Joseph, Buffalo, N. Y. Parachute harness. 2,417,168; Mar. 11.
- Kals, William S., Vancouver, British Columbia, Canada, assignor to Grafex, Inc., Rochester, N. Y. Portrait camera with automatic iris diaphragm operation. 2,424,176; July 15.
- Kalter, Harold E., assignor to The Troxel Manufacturing Company, Elyria, Ohio. Resilient mounting for cycle saddles. 2,414,954; Jan. 28.
- Kaltreider, David S., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Polyvinyl acetal resin composition. 2,423,981; July 15.
- Kalva Venders, Inc., assignee: *See*—  
Larimore, Harvey T.
- Kalvin, Louis, New York, N. Y. Stabilized casting wheel device. 2,425,246; Aug. 5.
- Kamborian, Jacob S., West Newton, Mass. Force lasted shoe with toe stiffener. 2,414,104; Jan. 14.
- Kamborian, Jacob S., West Newton, Mass. Lasting open-toe shoes. 2,414,204; Jan. 14.
- Kamborian, Jacob S., West Newton, Mass. Method and apparatus for unplasting footwear. 2,415,354; Feb. 4.
- Kamborian, Jacob S., West Newton, Mass. Pulling-on machine. 2,420,667; May 20.
- Kamborian, Jacob S., West Newton, Mass. Force lasting machine. 2,421,508; June 3.
- Kamborian, Jacob S., West Newton, Mass. Machine for lasting welt-type shoes. 2,424,239; July 22.
- Kamborian, Jacob S., West Newton, Mass. Apparatus for lasting shoes. 2,424,240; July 22.
- Kamborian, Jacob S., West Newton, Mass. Shoe last. 2,427,354; Sept. 16.
- Kamborian, Jacob S., West Newton, Mass. Shoe press. 2,427,607; Sept. 16.
- Kamborian, Jacob S., West Newton, Mass. Manufacture of footwear. 2,428,803; Oct. 14.
- Kamborian, Jacob S., West Newton, and W. T. Tracy, Lynn, Mass.; said Tracy assignor to said Kamborian. Manufacture of open-end shoes. 2,414,105; Jan. 14.
- Kamborian, Jacob S., West Newton, Mass., and W. T. Tracy, New York, N. Y., said Tracy assignor to said Kamborian. Force lasted shoe. 2,422,684; June 24.
- Kaminer, Bernard H., Brooklyn, N. Y. Key case. 2,418,945; Apr. 15.
- Kaminky, Oscar H., Freeport, Ill., assignor, by mesne assignments, to First Industrial Corporation, Wilmington, Del. Snap switch. 2,417,169; Mar. 11.
- Kamiss, Charles B., Jamaica, N. Y. Film processing clamp. 2,429,358; Oct. 21.



- Kamlet, Jonas, New York, N. Y., assignor to Miles Laboratories, Inc., Elkhart, Ind. Diagnostic compositions. 2,418,033; Mar. 25.
- Kamlet, Jonas, assignor to Boyle-Midway Inc., New York, N. Y. Detergent paste. 2,421,703; June 3.
- Kamlet, Jonas, New York, N. Y., assignor to Publicker Industries, Inc. Preparing alpha-methylalcohol. 2,423,599; July 8.
- Kamlet, Jonas, New York, N. Y., and M. Welsberg, and L. Beer, Providence, R. I. Shrinkproofing and felt-proofing of keratinous textile fibers. 2,427,097; Sept. 9.
- Kamm, George N., Boston, Mass., assignor, by mesne assignments, to United States of America, as represented by the Secretary of War. Wheatstone bridge meter. 2,432,199; Dec. 9.
- Kamm, Jack B., Chicago, Ill. Changeable display device with rotatable ring-shaped member. 2,431,645; Nov. 25.
- Kammer, Erwin W., Fairlington, Va. Optical time base generator. 2,428,369; Oct. 7.
- Kammerer, Harry A., Mount Vernon, N. Y. Removable sash construction. 2,430,772; Nov. 11.
- Kamp, Ewald A., Chicago, Ill., assignor to Graver Tank & Mfg. Co., Inc. Scraper structure for liquid treatment tanks. 2,427,092; Sept. 9.
- Kamper, Andrew M., and S. Parkes, assignors to Gerrard Industries Limited, Brentford, England. Strapping machine. 2,422,643; June 17.
- Kampf, Christian, Melrose Park, Ill., assignor to American Can Company, New York, N. Y. Container handle. 2,427,004; Sept. 9.
- Kandel, Charles, Jackson Heights, N. Y. Cutting torch. 2,417,650; Mar. 18.
- Kandoian, Armig G.: *See—*  
Labin, Emile, and Kandoian.
- Kandoian, Armig G., New York, N. Y., assignor to Federal Telephone and Radio Corporation. Directive antenna array. 2,418,124; Apr. 1.
- Kandoian, Armig G., New York, N. Y., assignor to Federal Telephone and Radio Corporation. Antenna array. 2,419,562; Apr. 29.
- Kandoian, Armig G., New York, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Antenna array. 2,429,629; Oct. 28.
- Kandoian, Armig G., New York, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Localizer beacon. 2,429,630; Oct. 28.
- Kandoian, Armig G., New York, N. Y., assignor, to Federal Telephone and Radio Corporation. Antenna system and using same. 2,433,369; Dec. 30.
- Kane, Garold A.: *See—*  
Randolph, Harrison, and Kane.
- Kane, James E. J.: *See—*  
Peters, Theodore J., Jr., and Kane.
- Kane, Thomas M., Sr., Baltimore, Md. Tomato coring mechanism. 2,433,125; Dec. 23.
- Kangas, Oscar A., Prazee, Minn. Safety starter switch. 2,422,909; June 24.
- Kangol Wear Limited, assignee: *See—*  
Huber, Gustav.
- Kann, Eduard, Summit, N. J., now by judicial change of name to Edward Cann. Attaching nut to plate. 2,415,695; Feb. 11.
- Kantor, Israel, Bronx, N. Y. Paint brush. 2,419,899; Apr. 29.
- Kantor, James, assignor to The Liquid Carbonic Corporation, Chicago, Ill. Plastic crowner. 2,432,163; Dec. 9.
- Kanuch, John, Cleveland, Ohio, assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Throttling and unloading valve. 2,428,117; Sept. 30.
- Kao, Chung-Chin, New York, N. Y., Keyboard-controlled ideographic printer having permutation type selection. 2,427,214; Sept. 9.
- Kaplan, Abraham, Bronx, N. Y. Shoulder pad. 2,414,534; Jan. 21.
- Kaplan, Max, New York, N. Y. Pocket case. 2,425,540; Aug. 12.
- Kaplan, Morris: *See—*  
Terry, Esther M., and Kaplan.
- Kaprelian, Edward K., Alexandria, Va. Extreme aperture objective. 2,424,827; July 29.
- Karagheusian, A. & M., Inc., assignee: *See—*  
Dacey, Edward J.
- Karavia, Sophie S., New York, N. Y. Combination lock. 2,420,484; May 13.
- Kardorff, Leon: *See—*  
Yardeny, Michel N., Bernas, and Kardorff.
- Karey, Romuald, Baltimore, Md., assignor to Bendix Aviation Corporation, Brooklyn, N. Y. Outboard motor. 2,431,806; Dec. 2.
- Karl, George E., Liberty, Ind., assignor to General Implement Corporation, Cleveland, Ohio. Rotary hoe. 2,419,717; Apr. 29.
- Karl, Lorenz, and F. Kugel, Heidenheim-on-the-Brenz, Germany, assignors to American Voith Contact Company, Inc., New York, N. Y. Thermostatic outlet valve control for fluid coupling. 2,423,812; July 8.
- Karle, John D., Roselle Park, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Suture protecting and tensioning means for surgical stitching instruments. 2,414,746; Jan. 21.
- Karle, John D., Roselle Park, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Needle threader and loop lifter for use with surgical stitching instruments. 2,416,260; Feb. 18.
- Karlson, Charles B., Westport, Conn., S. G. Benham, Brooklyn, N. Y., and W. A. Gehle, Arlington, N. J.; said Karlson and said Benham assignors to said Gehle. Drum-shaped oil separator divided by partitions into inlet, intermediate, and outlet section. 2,422,555; June 17.
- Karlsson, Per H., and J. Vickland, Wellsville, assignors to The Air Preheater Corporation, New York, N. Y. Heat exchange surface for air preheaters. 2,432,199; Dec. 9.
- Karnes, James C., Buffalo, N. Y. Luminous gun sight. 2,430,469; Nov. 11.
- Karp, Charles D., and J. L. Bachman, Philadelphia, Pa. Positive action release hook. 2,426,221; Aug. 26.
- Karpen, S. & Bros., assignee: *See—*  
Bartlett, Walter F., and Grzenia.
- Karrer, Paul, Zurich, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Derivatives of thiophan-3-one-4-carboxylic-acid-esters and the manufacture of same. 2,416,100; Feb. 18.
- Karten, Samuel A., New York, N. Y. Fur-dyeing machine. 2,414,955; Jan. 28.
- Kartridg-Pak Machine Co., assignee: *See—*  
Sloan, Edward C., and Hoag.
- Kartyshai, Robert A., New York, N. Y. Combination container for face powder and other make-up items. 2,426,883; Sept. 2.
- Karwacki, Joseph M., Chicago, Ill. Gate lock. 2,430,343; Nov. 4.
- Karweit, John W., Skokie, Ill., assignor, by mesne assignments, to Ex-Cell-O Corporation, Detroit, Mich. Hydraulic drill press. 2,418,840; Apr. 15.
- Karweit, John W., Skokie, Ill., assignor, by mesne assignments, to Ex-Cell-O Corporation, Detroit, Mich. Hydraulic drill press. 2,418,841; Apr. 15.
- Kasarjian, Armen A., Elmhurst, N. Y. Spark plug. 2,415,138; Feb. 4.
- Kase, Nathan, Binghamton, N. Y. Bag and closure therefor. 2,428,227; Sept. 30.
- Kaser, Robert A., Dayton, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Hydraulic press for stepwise drawing of metal. 2,419,563; Apr. 29.
- Kaskouras, Thomas, Chicago, Ill. Toothbrush holder. 2,424,098; July 15.
- Kason Hardware Corporation, assignee: *See—*  
Groeger, Alfred H.
- Kasper, Melvin E., Detroit, Mich. Projectile. 2,424,934; July 29.
- Kass, Lawrence W., assignor to Grip Nut Company, Chicago, Ill. Brake beam safety support. 2,416,446; Feb. 25.
- Kassebaum, Christopher: *See—*  
Barland, Edison M., and Kassebaum.
- Kassel, Louis S., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Catalytic conversion process. 2,425,098; Aug. 5.
- Kassel, Louis S., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Effecting exothermic catalytic reactions. 2,428,914; Oct. 14.
- Kassel, Louis S., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Catalytic conversion of hydrocarbons. 2,429,359; Oct. 21.
- Kast, Samuel H., assignor to Railway and Industrial Engineering Company, Greensburg, Pa. Electrical switch with kinetic energy dissipating means. 2,420,485; May 13.
- Kastel, Ferdinand, Baltimore, Md., assignor to Continental Can Company, Inc., New York, N. Y. Sealing compound applying apparatus. 2,419,951; May 6.
- Kasten, W., Franklin, assignor to R. L. Skinner, Detroit, Mich. Filter. 2,413,769; Jan. 7.
- Kasten, Walter, Franklin, assignor to R. L. Skinner, Detroit, Mich. Filter pack and its manufacture. 2,421,704; June 3.
- Kasten, Walter, Franklin, assignor to R. L. Skinner, Detroit, Mich. Filter. 2,421,705; June 3.
- Kaszuba, Frank J., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Bleaching bath and bleaching color film. 2,419,900; Apr. 29.
- Katchatouroff, Leon, Lyon, France, assignor to International Standard Electric Corporation, New York, N. Y. Electrical communication system. 2,426,222; Aug. 26.
- Katchatouroff, Leon, Paris 7, France, assignor to International Standard Electric Corporation, New York, N. Y. Delay communication system. 2,426,223; Aug. 26.
- Katchatouroff, Leon, and M. A. Lalande, Lyon, France, assignors to International Standard Electric Corporation, New York, N. Y. Multiplex carrier current communication system with transmission line impedance control means. 2,421,333; May 27.
- Katcher, Morris, New York, N. Y. Shock motor stop for vehicles. 2,428,029; Sept. 30.
- Katcher, Morris, New York, N. Y. Shaft seal and pressure plates and a spring therefor. 2,430,426; Nov. 4.
- Katcher, Morris, New York, N. Y. Check valve. 2,430,427; Nov. 4.
- Katcher, Morris, New York, N. Y. Pressure operated switch for hydraulic brake systems. 2,430,428; Nov. 4.



- Katcher, Morris, New York, N. Y., assignor to Chefford Master Manufacturing Co., Inc., Fairfield, Ill. Bracket for bicycle generators or the like. 2,430,429; Nov. 4.
- Katcher, Morris, New York, N. Y., and N. C. Greene, Fairfield, assignors, by mesne assignments, to Harris Trust and Savings Bank, Chicago, Ill., as trustee. Bicycle generator. 2,416,833; Mar. 4.
- Kate Manufacturing, assignee, et al.: *See—*  
Anderson, Ernest.
- Katinos, John, Jr., Oakmont, Pa. Apparatus for loading trucks. 2,422,910; June 24.
- Kattwinkel, Hans, Radebeul, Germany; vested in the Alien Property Custodian. Device for controlling the brake action in railway cars and the like. 2,415,100; Feb. 4.
- Katz, Francis, assignor to Hydopress, Incorporated, New York, N. Y. Speed regulating apparatus for hydraulic presses. 2,426,692; Sept. 2.
- Katz, Julius, New York, and F. P. Majoros, Brooklyn, assignors to Superba Manufacturing Co., Inc., New York, N. Y. Machine for manufacturing fabric tubing. 2,415,824; Feb. 18.
- Katz, Julius, Bronx, and F. P. Majoros, Brooklyn, assignors to Superba Manufacturing Co., Inc., New York, N. Y. Machine for the arrangement of seams. 2,423,101; July 1.
- Katz, Sam, Key West, Fla. Stay-down shirt. 2,418,774; Apr. 8.
- Katzenstein, Max, New York, N. Y. Article of manufacture for reinforcing an article of apparel. 2,414,262; Jan. 14.
- Kaufmann, Hans O., Eggertsville, and R. L. McEwen, E. S. Shanley, and J. R. Hopkins, assignors, to Buffalo Electro-Chemical Company, Inc., Buffalo, N. Y. Scouring cellulosic materials. 2,433,370; Dec. 30.
- Kaufman, Alan J., Brooklyn, N. Y. Sandpaper or the like. 2,414,535; Jan. 21.
- Kaufman, Daniel L., assignor to General Motors Corporation, Dayton, Ohio. Liquid cooling unit. 2,431,484; Nov. 25.
- Kaufman, Henri H.: *See—*  
Segschneider, Rudolph G., and Kaufman.
- Kaufman, Hyman M., Amesbury, Mass. Slide rule. 2,422,421; June 17.
- Kaufman, Joseph, New York, N. Y. Lock. 2,423,982; July 15.
- Kaufman, Leonard J., assignee: *See—*  
Dishmaker, Orville A.
- Kaufman, Morton, Brooklyn, N. Y., assignor to Wright Aeronautical Corporation. Electroplating fixture. 2,422,242; June 17.
- Kaufmann, Charles, and A. H. Andersen, Shawinigan Falls, Quebec, assignors to Shawinigan Chemicals Limited, Montreal, Quebec, Canada. Densifying finely divided material. 2,415,355; Feb. 4.
- Kaufmann, John J., Elkins Park, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Loom harness. 2,426,456; Aug. 26.
- Kaukauna Machine Corporation, assignee: *See—*  
West, George.
- Kauth, Henry J., Schenectady, assignor to General Cable Corporation, New York, N. Y. Enamel containing furfuryl alcohol condensate and polyvinyl acetal. 2,432,623; Dec. 16.
- Kavanaugh, Edmund V., Detroit, Mich. Sinuous loop conductor. 2,417,079; Mar. 11.
- Kayula, Alex, Cleveland, Ohio. Mold vibrator. 2,431,872; Dec. 2.
- Kawecki, Henry C., Temple, Pa. Ore treatment process. 2,418,073; Mar. 25.
- Kawecki, Henry C., Temple, Pa. Ore treatment process. 2,418,074; Mar. 25.
- Kay-Brunner Steel Products, Inc., assignee: *See—*  
Kadz, Harold D.  
Low, John J.
- Kay-Fries Chemical, Inc., assignee: *See—*  
Bitler, William and Nicholl.
- Kay & Lee Limited, assignee: *See—*  
Jackson, Ernest A.
- Kay, Murray, New York, N. Y. Halter or brassiere. 2,430,877; Nov. 18.
- Kay, Oscar C., and V. Rowe, Chesnee, S. C. Doffer comb drive. 2,413,832; Jan. 7.
- Kaydon Engineering Corporation, The, assignee: *See—*  
Pellerano, Silvio.
- Kayner, Maurice: *See—*  
Zimmermann, Frederick J., and Kayner.
- Kayser, Julius & Co., assignee: *See—*  
Mack, Sterling C.
- Kean, George W., Granby, Conn. Safety valve for hydraulic brakes. 2,429,820; Oct. 28.
- Keane, John, New York, N. Y. Window lock. 2,431,178; Nov. 18.
- Kearby, Kenneth K., Elizabeth, N. J., assignor to Standard Oil Development Company. Dehydrogenation catalysts. 2,418,888; Apr. 15.
- Kearby, Kenneth K., Elizabeth, N. J., assignor to Standard Oil Development Company. Dehydrogenation catalyst. 2,418,889; Apr. 15.
- Kearby, Kenneth K., Elizabeth, N. J., assignor to Standard Oil Development Company. Production of olefins. 2,426,829; Sept. 2.
- Kearby, Kenneth K., Elizabeth, N. J., assignor to Standard Oil Development Company. Producing easily pulverized xerogel. 2,429,319; Oct. 21.
- Kearfott Company, Inc., assignee: *See—*  
Herbert, Frederick D., Jr.
- Kearney, James R., Corporation, assignee: *See—*  
Boothe, Eugene F.  
Bowen, Thomas H.  
Ellicock, Albert B.  
Fox, Charles A.  
Froland, Olav.  
Tallman, Oscar F.
- Kearney & Trecker Corporation, assignee: *See—*  
Armitage, Joseph B.  
Armitage, Joseph B., and Eserkalm.
- Kearns, Charles M., Beavertown, Pa. Adjustable wheeled cultivator. 2,418,352; Apr. 1.
- Kearns, Charles M., Jr., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Resiliently hinged blade mounting. 2,416,178; Feb. 18.
- Keasbey & Mattison Company, assignee: *See—*  
Miller, Lewis B.
- Keath, Charles K., Lititz, Pa., assignor to Frick-Gallagher Manufacturing Company, Wellston, Ohio. Convertible packing box. 2,413,874; Jan. 7.
- Keathley, Emerson O., Tiptonville, Tenn. Spraying machine. 2,424,468; July 22.
- Keays, Perceval H.: *See—*  
Jeppesen, Kresten L., and Keays.
- Kebrich, Leonard M.: *See—*  
Stewart, Alexander. Pitrot, and Kebrich.
- Kebrich, Leonard M., Brooklyn, assignor to National Lead Company, New York, N. Y. Basic lead salicylates and preparing same. 2,421,706; June 3.
- Kek, George P., assignor to Clay Products Association, Chicago, Ill. Radiant heating for buildings. 2,422,685; June 24.
- Keck, Walter E., Hancock, assignor, by mesne assignments, to Metals Recovery Company, Ann Arbor, Mich. Separating valuable materials from grinding dusts and sludges. 2,428,228; Sept. 30.
- Keefe, Ida K.: *See—*  
Keefe, Michael E., Jr., and I. K.
- Keefe, Lincoln M., Brooklyn, N. Y., assignor to The McBee Company, Athens, Ohio. Key operated card punching machine. 2,419,781; Apr. 29.
- Keefe, Michael E., Jr., and I. K., Atlanta, Ga. Dry powder fire extinguisher. 2,430,470; Nov. 11.
- Keefe, Raymond: *See—*  
Matheny, Harry R., and Keefe.
- Keefe, Walter L., assignor to Pangborn Corporation, Hagerstown, Md. Tumbling mill and method of tumbling. 2,422,786; June 24.
- Keehn, Warner L., Spokane, Wash. Trailer and swingable axle construction therefor. 2,432,018; Dec. 2.
- Keeler Brass Company, assignee: *See—*  
Jakeway, Gerald V.
- Keeler, Isaac S., and Jakeway.
- Keeler, Isaac S., and G. V. Jakeway, assignors to Keeler Brass Company, Grand Rapids, Mich. Door handle, drawer pull, and like hardware articles. 2,414,648; Jan. 21.
- Keeling, William O., Mount Lebanon, Pa. Converting hydrocarbons. 2,431,485; Nov. 25.
- Keeling, William O., Pittsburgh, Pa., assignor, by mesne assignments, to Koppers Company, Inc. Producing elemental sulphur. 2,413,714; Jan. 7.
- Keema, Alexandre W.: *See—*  
Stevenson, Robert, and Keema.
- Keen, Everett M., Vineland, N. J. Combination stool and stepladder. 2,433,699; Dec. 30.
- Keenan, Charles B., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electric weft, detector for looms. 2,422,911; June 24.
- Keene, Walter L., Dormont, assignor to Superior Steel Corporation, Pittsburgh, Pa. Making bimetallic products. 2,417,760; Mar. 18.
- Keene, Walter L., Dormont, and W. A. Carlson, assignors to Superior Steel Corporation, Pittsburgh, Pa. Composite billet and manufacture thereof. 2,421,891; June 10.
- Keep, Charles R.: *See—*  
Hemming, Harold, and Keep.
- Keep, Charles R., Norwood, assignor to B. F. Sturtevant Company, Boston, Mass. Spray nozzle. 2,415,794; Feb. 11.
- Keep, Charles R., Norwood, assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Air mixing and distributing duct for air conditioning systems. 2,424,828; July 29.
- Keep, Charles R., Norwood, Mass., assignor, by mesne assignments, to Westinghouse Electric Corporation. Spray nozzle. 2,429,267; Oct. 21.
- Keepers, Cecil H., Nekoosa, assignor to Nekoosa-Edwards Paper Company, Port Edwards, Wis. Device for and method of measuring volume of wood in stacks. 2,424,619; July 29.
- Kees, Harvey, and F. Gehres, assignors to Electronics Research, Inc., Evansville, Ind. Antenna. 2,431,124; Nov. 18.
- Keevil, Henry W.: *See—*  
Barnes, Walter C., and Keevil.
- Keferstein, Charles G., assignee: *See—*  
Ayers, Fred L.



- Kehe, Henry J., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Production of diaryl nitrosamines. 2,419,718; Apr. 29.
- Kehl, Howard A., Detroit, Mich. Toothbrush and dentifrice container. 2,417,874; Mar. 25.
- Kehle, Ottmar A., West Los Angeles, Calif., assignor to Adel Precision Products Corp. Relief valve. 2,419,143; Apr. 15.
- Kehle, Ottmar A., West Los Angeles, Calif., assignor to Adel Precision Products Corp. Flow reversing valve for hydraulic systems. 2,427,788; Sept. 23.
- Kehle, Ottmar A., Van Nuys, Calif., assignor to Adel Precision Products Corp. High pressure seal. 2,427,789; Sept. 23.
- Kehoe, Charles G.: *See*—  
Snook, Samuel I., Naveken, and Kehoe.
- Kehoe, Richard D.: *See*—  
Beveridge, James B., and Kehoe.  
Beveridge, James B., Kehoe, and Surino.
- Kehoe, William R., Baytown, Tex. System for controlling flow of fluids. 2,416,875; Mar. 4.
- Kehrer, Agnes D., Detroit, Mich. Thread severing device for sewing machines. 2,426,026; Aug. 19.
- Keierleber, Arthur P., Aurora, Ill., assignor to All-Steel-Equip Company. Cable clamp. 2,424,829; July 29.
- Keight, Albert W., and T. E. Carlson, Cumberland, Md., assignors to Celanese Corporation of America. Transfer tail winding device. 2,428,081; Sept. 30.
- Kell, Havard L., Clarendon Hills, assignor to Armour and Company, Chicago, Ill. Rendering of fatty materials. 2,423,102; July 1.
- Keil, Havard L., Clarendon Hills, and J. S. Ingraham, assignors to Armour and Company, Chicago, Ill. Proteinaceous foam-stabilizing composition and the preparation thereof. 2,431,256; Nov. 18.
- Kelm, Ervin A.: *See*—  
Schlabach, Atlee, and Kelm.
- Kelm, John W.: *See*—  
Frame, Newton B., and Kelm.
- Keim, Melville, assignee: *See*—  
Gygi, Helene B.
- Keim, Melville, Chicago, Ill. Evaporator. 2,422,487; June 17.
- Keinath, George, Larchmont, N. Y. Flash print recorder. 2,427,355; Sept. 16.
- Keiper, Francis P., Evanston, Ill. Phonograph record illuminating device. 2,429,064; Oct. 14.
- Keiser, Bernhard: *See*—  
De Groot, Melvin, and Keiser.
- Keiser, Russell W., and C. P. Boucher, Fostoria, Ohio, assignors to Boucher and Keiser Company, Atlanta, Ga. Starting and operating of fluorescent lamps. 2,429,162; Oct. 14.
- Keister, James E.: *See*—  
Jensen, Richard C., and Keister.
- Keister, James E., Scotia, N. Y., assignor to General Electric Company. Radio transmitter-receiver switching system. 2,419,564; Apr. 29.
- Keister, James E., Scotia, N. Y., assignor to General Electric Company. Frequency modulated-pulse type radio locator. 2,433,669; Dec. 30.
- Keister, William, Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relay design calculator. 2,431,696; Dec. 2.
- Keith, Claude D.: *See*—  
Madsen, Soren, O'Brien, and Keith.
- Keith, Claude D., deceased, Lake Mahopac, N. Y.; I. M. Keith, administratrix, and J. F. O'Brien, Englewood, N. J.; said O'Brien assignor to said I. M. Keith, as administratrix. Bottle carrier. 2,416,999; Mar. 4.
- Keith, Irene M., administratrix: *See*—  
Keith, Claude D., and O'Brien.
- Madsen, Soren, O'Brien, and Keith.
- Keith, Kenneth M.: *See*—  
Ronning, Martin, and Keith.
- Keith-Peabody, Inc., assignee: *See*—  
Keith, William J.
- Keith, Percival C., Peapack, assignor to The M. W. Kellogg Company, Jersey City, N. J. Isomerizing paraffin hydrocarbons. 2,415,890; Feb. 18.
- Keith, William J., assignor to Keith-Peabody, Inc., Brookline, Mass. Making closure caps. 2,418,353; Apr. 1.
- Keizer, Eugene O., Princeton, N. J., assignor to Radio Corporation of America. Variable attenuators for centimeter waves. 2,427,093; Sept. 9.
- Kelbel, Donald W.: *See*—  
Carnagua, Harold E., and Kelbel.
- Kelco Company, assignee: *See*—  
Gates, John I.  
Steiner, Arnold B.
- Keldsen, Knud G., assignee: *See*—  
Keldsen, Axel R.
- Kell, Alfred O., Cincinnati, Ohio. Paint brush holder. 2,424,099; July 15.
- Kell, Claude O., U. S. Navy. Screw propeller. 2,426,617; Sept. 2.
- Kell, Lester L., St. Louis, Mo. Lock cylinder. 2,426,141; Aug. 19.
- Kell, Ray D., and W. A. Tolson, Princeton, N. J., assignors to Radio Corporation of America. Heat responsive indicator. 2,422,971; June 24.
- Keller, Arthur C., Bronxville, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Compression wave signaling device. 2,417,829; Mar. 25.
- Keller, Arthur C., Bronxville, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Compression wave signaling device. 2,417,830; Mar. 25.
- Keller, Charles K., Santa Paula, Calif. System for electrically treating soil. 2,429,412; Oct. 21.
- Keller, Edward A., Aurora, Ill. Adjustable spirit level. 2,410,451; Apr. 22.
- Keller, Emil C.: *See*—  
Spokes, Ray E., and Keller.
- Keller, Frederick A.: *See*—  
Koretzky, Israel, and Keller.
- Keller, Frederick A., East Paterson, assignor to Bright Star Battery Company, Clifton, N. J. Flashlight battery with plastic casing. 2,427,561; Sept. 16.
- Keller, George, Jr., Keyport, assignor to The Trucktor Corporation, Newark, N. J. Tandem trailer suspension. 2,417,690; Mar. 18.
- Keller, George H., Radburn, N. J., assignor to Wright Aeronautical Corporation. Engine slushing system. 2,428,915; Oct. 14.
- Keller, H. V., Manufacturing Co., assignee: *See*—  
Tonn, Christ.
- Keller, Henry G., Glenside, and C. M. Young, Jr., Philadelphia, Pa., assignor to Link-Belt Company. Machine for producing toothed discs. 2,433,564; Dec. 30.
- Keller, Henry V., Minneapolis, Minn. Ironing table having folding supports. 2,425,810; Aug. 19.
- Keller, John J., Hauppauge, and Konrad Lober, Woodhaven, N. Y. Grinding machine. 2,432,765; Dec. 16.
- Keller, Philip B., Santa Monica, Calif. Coin bank. 2,420,246; May 6.
- Keller, Robert, Ennetbaden, and E. Handschin, assignors to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Starting synchronous machines. 2,431,486; Nov. 25.
- Keller, William M.: *See*—  
Steins, Carleton K., and Keller.
- Kellerman, Frederick, New York, assignor to Magnetic Analysis Corporation, Long Island City, N. Y. Bifrequency magnetic testing apparatus. 2,423,891; July 15.
- Kellermann, Gustav J., assignor to Industrial Patents Corporation, Chicago, Ill. Meat product and making the same. 2,430,818; Nov. 11.
- Kellett Aircraft Corporation, assignee: *See*—  
Miller, Charles C., and Prewitt.
- Kelley, Earl F., Cheyenne, Wyo. Wheel lifting truck. 2,429,723; Oct. 28.
- Kelley, Cecil S., Forest Hills, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Slack adjuster. 2,429,693; Oct. 28.
- Kelley, Charles A.: *See*—  
Flora, Laurence H., and Kelley.
- Kelley, Frank H., Rosemond, Calif., and R. M. Stanley, Kenmore, N. Y., assignors to United Aircraft Corporation, East Hartford, Conn. Aircraft flight control. 2,417,691; Mar. 18.
- Kelley, Gilbert A., assignor to Surface Combustion Corporation, Toledo, Ohio. Air-conditioning apparatus. 2,420,993; May 20.
- Kelley-Koett Manufacturing Co., Inc., The, assignee: *See*—  
Haupt, Walter H.
- Kelley, Leo A., New York, N. Y., assignor to The Rauland Corporation, Chicago, Ill. Radio carrier telephone system. 2,417,555; Mar. 18.
- Kelley, Maurice J.: *See*—  
Robinson, Edwin A., and Kelley.
- Kelley, Merle B., Washington, assignor to Kel-Mar Tire Remover Company, Pittsburgh, Pa. Tire removing apparatus. 2,423,652; July 8.
- Kelley, Oliver K., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Compound power transmission. 2,433,052; Dec. 23.
- Kelley, Walter F., Whitestone, and E. O. Roggenstein, Ilion, assignors to Remington Rand Inc., Buffalo, N. Y. Punch. 2,421,069; May 27.
- Kelley, Zar W., Bedford, assignor to Z & W Machine Products, Inc., Cleveland, Ohio. Seating and facing tool. 2,420,601; May 13.
- Kellogg, Henry B.: *See*—  
Sparks, William J., and Kellogg.
- Kellogg, Henry B., Union City, and G. E. Serniuk, Roselle, N. J., assignors, by mesne assignments, to Jasco, Incorporated. Plasticizer and softener for perbunan and perbunan type rubbers. 2,415,356; Feb. 4.
- Kellogg Company, assignee: *See*—  
Penty, William P.
- Kellogg, Edward W., Indianapolis, Ind., assignor to Radio Corporation of America. Bottle inspection apparatus. 2,426,355; Aug. 26.
- Kellogg, Edward W., Indianapolis, Ind., assignor to Radio Corporation of America. Controlling motion by means of voltage as applied to gunnery trainers. 2,431,257; Nov. 18.
- Kellogg, Homer G., Highland Park, assignor to Motor Products Corporation, Detroit, Mich. Metal-working machine. 2,429,821; Oct. 28.
- Kellogg, M. W., Company, The, assignee: *See*—  
Belchetz, Arnold.  
Degnen, William J.  
Gary, Wright W.  
Hopkins, Robert K.  
Jenny, Frank J., Perkins, and Cicalese.  
Keith, Percival C.



- Kellogg, M. W., Company, The, assignee: *See*—Continued.  
 Lerner, Herbert B.  
 Layng, Edwin T.  
 MacDonald, Maurice.  
 Passino, Herbert J., and McGrath.  
 Passino, Herbert J., and Rearick.  
 Ruthruff, Robert F.
- Kellogg, Spencer, 2nd, Rye, N. Y., G. N. Hanson, Alledale, N. J., and T. W. Kenyon, Huntington, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Aircraft altitude control. 2,415,429; Feb. 11.
- Kellogg Switchboard and Supply Company, assignee: *See*—  
 Arnold, Ralph J.  
 Bakker, Pier.  
 Bosh, James E.  
 Brodie, George H.  
 Teague, Walter D., and Teague.
- Kellogg Switchboard and Supply Company, assignee, et al.: *See*—  
 Arnold, Ralph J.  
 Saunders, Norman H.
- Kellogg, William D., assignor to Aveco, Incorporated, Amsterdam, N. Y. Warp knitting machine. 2,427,395; Sept. 16.
- Kellogg, William D., Amsterdam, N. Y., and R. F. Eshleman, West Chester, Pa., assignors to Aveco, Incorporated, Amsterdam, N. Y. Yarn breakage detector. 2,427,055; Sept. 9.
- Kellogg, William M., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. High-frequency coupling circuit. 2,416,322; Feb. 25.
- Kells, Edward L., Alhambra, Calif. Deep fat fryer. 2,429,360; Oct. 21.
- Kelly, Andrew W., Bristol, assignor to The Sessions Clock Company, Forestville, Conn. Synchronous electric alarm-clock mechanism. 2,417,254; Mar. 11.
- Kelly, Anthony H.: *See*—  
 Anderson, William B., Haley, and Kelly.
- Kelly, Benjamin W., assignor to Keystone View Company, Meadville, Pa. Automatic orthophoric split slide holder. 2,414,649; Jan. 21.
- Kelly, Daniel A., assignor to Prime Manufacturing Company, Milwaukee, Wis. Cylinder relief cock. 2,426,510; Aug. 26.
- Kelly, Dunford A.: *See*—  
 Downs, George W., and Kelly.
- Kelly, Eugene, Toronto, Ontario, Canada, assignor to The Coca-Cola Company, Atlanta, Ga. Bottle handling mechanism. 2,426,356; Aug. 26.
- Kelly, Frederick G., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Meter control device and system. 2,428,229; Sept. 30.
- Kelly, Frederick R., Shipston-on-Stour, assignor to Iraq Petroleum Company Limited, London, England. Pipe joint. 2,420,139; May 6.
- Kelly, G. A., Plow Company, assignee: *See*—  
 Ing, John W.
- Kelly, Harold S.: *See*—  
 Montgomery, Jesse S., and Kelly.
- Kelly, Hartleigh, Tennyson, South Australia, Australia. Smoking apparatus. 2,425,247; Aug. 5.
- Kelly, John H., Pittsburgh, Pa. Leather conditioning cutter. 2,429,822; Oct. 28.
- Kelly, John P., assignor to Champion Spark Plug Company, Toledo, Ohio. Antiseize and sealing compound. 2,419,144; Apr. 15.
- Kelly, Justin M.: *See*—  
 Carson, Kenneth J., and Kelly.
- Kelly, Leslie J., assignee: *See*—  
 Mackin, John J.
- Kelly, Lewis P., Peoria Heights, Ill. Apparatus for nesting pipe elbows. 2,417,503; Mar. 18.
- Kelly, Robert L., Capitol Heights, Md. Newspaper delivery recorder. 2,428,739; Oct. 7.
- Kelly, Walter W., Portland, Oreg., assignor to Food Machinery Corporation, San Jose, Calif. Cherry feeding and orienting apparatus. 2,428,370; Oct. 7.
- Kelly, William F., Jr.: *See*—  
 Greenbowe, James W., Laidig, and Kelly.
- Kelly, William I., Eatontown, N. J., assignor to the United States of America, as represented by the Secretary of War. Cable connector. 2,414,106; Jan. 14.
- Kelman, David J., Brooklyn, N. Y. Decorative ornament. 2,414,378; Jan. 14.
- Kel-Mar Tire Remover Company, assignee: *See*—  
 Kelley, Merle B.
- Kelp, Forrest M., Modesto, Calif. Portable beam cutter. 2,432,240; Dec. 9.
- Kelsey, Cadwallader W., assignor to Rototiller, Inc., Troy, N. Y. Automatic flywheel release clutch to facilitate motor stalling. 2,428,973; Oct. 14.
- Kelsey, Elizabeth L., Chicago, Ill., assignor to Zenith Radio Corporation. Hearing aid earpiece. 2,430,229; Nov. 4.
- Kelsey-Hayes Wheel Company, assignee: *See*—  
 Forbes, Joseph A.
- Kelton Manufacturing Co., assignee: *See*—  
 Smith, Hamilton.
- Kemler, Emory N., Birmingham, Ala., assignor to Muncie Gear Works, Inc., Muncie, Ind. Heat pump. 2,432,316; Dec. 9.
- Kemmer, Frank R., Louisville, Ky., assignor to Reynolds Metals Company. Fluidizing slag. 2,416,179; Feb. 18.
- Kemmerer, Ralph R., Swissvale, and A. L. Jerome, Edgewood, assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway track insulation break-down signaling system. 2,424,319; July 22.
- Kemmler, James W., Yardley, Pa., assignor to Sloane-Blabon. Fire-resistant linoleum product. 2,428,282; Sept. 30.
- Kemmler, James W., Elkins Park, and E. R. Erb, Jr., Morrisville, Pa., assignors to Sloane-Blabon, Trenton, N. J. Floor covering and producing the same. 2,430,934; Nov. 18.
- Kemock, Steve W., Chicago, Ill. Broken electrode retrieving means. 2,426,105; Aug. 19.
- Kemp, Archie R., Westwood, and C. A. Webber, Westfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Retractable cord. 2,413,715; Jan. 7.
- Kemp, C. M., Manufacturing Company, The, assignee: *See*—  
 Kemp, William W.
- Kemp, Harold Jesse, Swift Current, Saskatchewan, Canada. Seed treating and handling device. 2,422,019; June 10.
- Kemp, Lebbeus C., Jr., Scarsdale, assignor to The Texas Company, New York, N. Y. Phosphoric acid esters. 2,414,263; Jan. 14.
- Kemp, Milton H., Oak Park, Ill., assignor to The Kendall Company, Boston, Mass. Pressure-sensitive adhesive sheet materials. 2,416,925; Mar. 4.
- Kemp, Milton H., Oak Park, Ill., assignor to The Kendall Company, Boston, Mass. Pressure-sensitive adhesive tapes. 2,416,926; Mar. 4.
- Kemp, William W., assignor to The C. M. Kemp Manufacturing Company, Baltimore, Md. Preheater for oil for refinery crackers. 2,430,344; Nov. 4.
- Kemper, James M., Hollywood, assignor to The Garrett Corporation, Aircsearch Manufacturing Company, division, Los Angeles, Calif. Oil cooler control. 2,416,261; Feb. 18.
- Kemper, James M., Hollywood, assignor to The Garrett Corporation, Aircsearch Manufacturing Company division, Los Angeles, Calif. Cabin pressure control. 2,428,283; Sept. 30.
- Kempton, Leslie A., Chicago, Ill., assignor to Hotpoint Inc. Dishwashing apparatus. 2,425,620; Aug. 12.
- Kenaga, Eugene: *See*—  
 Fletcher, Fred W., and Kenaga.
- Kendall Company, The, assignee: *See*—  
 Eustis, Warner and Orrill.  
 Hoey, Raymond M.  
 Kemp, Milton H.  
 Miller, Wilmore H.  
 Morrison, Dana E., and Ziegler.  
 Ryan, John F.  
 Whitman, Ross C.  
 Ziegler, Paul F.
- Kendall, Donald B.: *See*—  
 Gilchrist, Fred W., Kendall, and Bradley.
- Kendall, Edward C., Rochester, Minn., assignor to Research Corporation, New York, N. Y. Derivatives of 3-hydroxy cholic acid and making them. 2,419,220; Apr. 22.
- Kendall, George M., Peterborough, N. H. Applicator for shoe polish. 2,426,738; Sept. 2.
- Kendall, Giles A.: *See*—  
 Gladden, John N., and Kendall.
- Kendall, John D.: *See*—  
 Chilton, Leonard V., Kendall, and Phillips.
- Kendall, John D., assignor to Ilford Limited, Ilford, England. Methine dyestuffs. 2,430,295; Nov. 4.
- Kendall, John D., and D. J. Fry, assignors to Ilford Limited, Ilford, England. Acetoacet-methine color formers. 2,427,910; Sept. 23.
- Kendall, John D., and D. J. Fry, assignors to Ilford Limited, Ilford, England. 3,5-diketo pyrazolidine color formers. 2,427,911; Sept. 23.
- Kendall, Max J., Benton Harbor, Mich. Rocking horse. 2,421,270; May 27.
- Kendall, Paul D.: *See*—  
 Tresise, Raleigh E., and Kendall.
- Kendrick, Albert S., Wolverhampton, England, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Locking mechanism. 2,418,180; Apr. 1.
- Kenefake, Edwin W., Schenectady, N. Y., assignor to General Electric Company. Frequency modulation. 2,424,830; July 29.
- Kenkel, John E., Great Falls, Mont. Toothpick dispenser. 2,426,149; Aug. 19.
- Kenlea Manufacturing Company, assignee: *See*—  
 Ferrante, John.
- Kenmore Builders Supply Co., Inc., assignee: *See*—  
 Aden, Per E.
- Kenna, Ernest M. and E. R., New York, N. Y. Index tab. 2,415,248; Feb. 4.
- Kenna, Evalyn R.: *See*—  
 Kenna, Ernest M. and E. R.
- Kennecott Copper Corporation, assignee: *See*—  
 Larson, Leonard, and Berge.
- Kennedy, Donald S., assignee: *See*—  
 Newman, John E.



- Kennedy, Gilbert J., Philadelphia, Pa., assignor to Radio Corporation of America. Capacitor building machine. 2,416,101; Feb. 18.
- Kennedy, Harry E.: *See*—  
Fowle, John M., and Kennedy.
- Kennedy, Harry E., Berkeley, Calif., assignor to The Linde Air Products Company. Electropneumatic control system. 2,423,190; July 1.
- Kennedy, Harry E., Berkeley, Calif., assignor to The Linde Air Products Company. Stress-relief of welded structures. 2,429,320; Oct. 21.
- Kennedy, Harry E., Berkeley, Calif., assignor to The Linde Air Products Company. Blanketed electric arc making intermittent welds. 2,430,055; Nov. 4.
- Kennedy, Hartwell C.: *See*—  
Vaughan, William E., and Kennedy.
- Kennedy, James S., and R. G. O'Meara, Rolla, Mo., assignors to the Government of the United States of America, as represented by Secretary of the Interior. Beneficiation of beryllium ores. 2,414,815; Jan. 28.
- Kennedy, Jesse J., La Salle, Ill., assignor to General Time Instruments Corporation, New York, N. Y. Electric clock. 2,420,827; May 20.
- Kennedy, John A., Saco, Maine, assignor to Saco-Lowell Shops, Boston, Mass. Textile spindle. 2,421,734; June 3.
- Kennedy and Kempe, Limited, assignee: *See*—  
Dennison, Ernest A.
- Kennedy, Richard O., New York, N. Y. Shirt collar. 2,418,716; Apr. 8.
- Kennedy, Robert M., Drexel Hill, and S. J. Hetzel, Cheltenham, assignors to Sun Oil Company, Philadelphia, Pa. Dealkylation of hydrocarbons. 2,431,940; Dec. 2.
- Kennedy, Samuel E., San Diego, assignor to B. W. Hardman, Chula Vista, Calif. Weeding tool. 2,419,719; Apr. 29.
- Kennedy, Verne C., Evanston, Ill., assignor to A. F. Dormeyer Mfg. Company. Food mixer. 2,427,099; Sept. 9.
- Kennedy, William R., Fort William, Ontario. Overlapping disc-type hulling machine. 2,430,572; Nov. 11.
- Kennelly, Jeremiah D., Oak Park, Ill. Oscillating light signal device. 2,417,934; Mar. 25.
- Kennelly, Reginald G., Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Coating thermoplastics with silica. 2,431,873; Dec. 2.
- Kenner, I. D., assignee: *See*—  
Dodd, Paul R.
- Kenney, Clarence E., West Allis, and J. R. Hagemann, Wauwatosa, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Turbine mounting. 2,429,936; Oct. 28.
- Kenney, Mahlon W., Oak Park, and H. H. Davis, assignors to J. P. Seeburg Corporation, Chicago, Ill. Selector for automatic phonographs. 2,431,646; Nov. 25.
- Kennison, Hugh F., Bloomfield, assignor to Lock Joint Pipe Company, East Orange, N. J. Machine for constructing tanks. 2,415,500; Feb. 11.
- Kenrick, Marie A., South Yarmouth, Mass. Baffle attachment for a heating coil surrounding a combustion tube burner. 2,422,488; June 17.
- Kent, Earle L., assignor to C. G. Conn, Ltd., Elkhart, Ind. Apparatus for measuring voltages. 2,425,811; Aug. 19.
- Kent, Earle L., Elkhart, Ind., and R. C. Treseder, Dayton, Ohio; said Kent assignor to C. G. Conn, Ltd., Elkhart, Ind. Vibration apparatus. 2,428,671; Oct. 7.
- Kent, Earle L., Elkhart, Ind., and R. C. Treseder, Dayton, Ohio; said Kent assignor to C. G. Conn, Ltd., Elkhart, Ind. Apparatus for measuring mechanical vibrations. 2,429,094; Oct. 14.
- Kent, George H.: *See*—  
Lowe, Sherwin P., Reikie, Kent, and Long.
- Kent, George J., change of name: *See*—  
Klein, George J.
- Kent, Robert S., Brooklyn, N. Y. Char revivification apparatus including means for reclaiming and reutilizing heat from the cooling section thereof. 2,430,056; Nov. 4.
- Kentner, Carroll D., Merchantville, N. J., assignor to Radio Corporation of America. Multitube self-pulsing oscillator. 2,431,179; Nov. 18.
- Kenworth Motor Truck Corporation, assignee: *See*—  
Holmstrom, John G., and Brown.
- Kenyon, Alonzo F., and W. G. Cook, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric motor control system. 2,416,180; Feb. 18.
- Kenyon, David E., Smithtown, N. Y., assignor to Sperry Gyroscope Company, Inc. Electronic timing apparatus. 2,414,107; Jan. 14.
- Kenyon, David E., Smithtown, N. Y., assignor to Sperry Gyroscope Company, Inc. Cathode-ray system with bright and dark marker indications. 2,425,330; Aug. 12.
- Kenyon, George W.: *See*—  
Frink, Carl H., and Kenyon.
- Kenyon, Harold: *See*—  
Van den Berg, Antonius C., and Kenyon.
- Kenyon Instrument Co., Inc., assignee: *See*—  
Dresser, Willis R.
- Kenyon, Theodore W.: *See*—  
Kellogg, Spencer, 2nd, Hanson, and Kenyon.
- Kenyon, William O.: *See*—  
Unruh, Cornelius C., and Kenyon.
- Kenyon, William O., and L. M. Minsk, assignors, to Eastman Kodak Company, Rochester, N. Y. Synthetic resin. 2,413,716; Jan. 7.
- Kenyon, William O., and T. F. Murray, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. Resinous copolymers of 4-methylene-1,3-dioxolane. 2,415,638; Feb. 11.
- Kenyon, William O., and J. H. Van Campen, assignors to Eastman Kodak Company, Rochester, N. Y. Copolymers of 2-halogeno-allyl alcohol or 2-halogeno-allyl esters. 2,419,221; Apr. 22.
- Kenyon, William O., and C. C. Unruh, assignors to Eastman Kodak Company, Rochester, N. Y. Fabric or gauze of uniformly oxidized cellulose. 2,423,707; July 8.
- Keogh, Thomas P., New York, and H. A. Fink, Pelham Manor, assignors to Continental Can Company, Inc., New York, N. Y. Salvaging metal cans. 2,423,708; July 8.
- Keplinger, Orin C.: *See*—  
Franz, Arvel O., and Keplinger.
- Keppner, Hugh C., executors, et al.: *See*—  
Hoof, Addison C.
- Kerbaw, Haford G., Blissfield, Mich., assignor to A. G. Kerby, Cleveland, Ohio. Sock drier. Re. 22,862; Apr. 8.
- Kerber, Varna V., and H. S. Cochran, Connelville, Pa. Waffle warming rack. 2,429,025; Oct. 14.
- Kerby, Alexander G., assignee: *See*—  
Kerbaw, Haford G.
- Kerite Company, The, assignee: *See*—  
Norton, Ralph B.
- Kerlow Steel Flooring Company, assignee: *See*—  
Flint, Eric B.
- Tarof, Ernest L.
- Kern, Edward A.: *See*—  
Abbott, Royal K., Jr., and Kern.  
Middleton, Leslie H., and Kern.
- Kern, Edward A., and H. F. Miller, Pittsfield, Mass., assignors to General Electric Company. Dielectric sheet material. 2,418,354; Apr. 1.
- Kern, Erwin: *See*—  
Gaudenzi, Arthur, and Kern.
- Kern, Gladys M., administratrix: *See*—  
Terrell, Oliver C.
- Kern, Jean G., Orchard Park, assignor to Allied Chemical & Dye Corporation, New York, N. Y. Anthraquinone acid dyestuff. 2,430,771; Nov. 11.
- Kern, Walter: *See*—  
Sutter, Paul, and Kern.
- Kerns, Roy S., Chicago, Ill., assignor to The Linde Air Products Company. Pressure welding apparatus. 2,421,070; May 27.
- Kerr, Charles, Jr.: *See*—  
Hutchison, William M., and Kerr.
- Kerr, Charles E., Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif. String bean grader. 2,416,008; Feb. 18.
- Kerr, Charles E., Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif. Gauge for green corn cutter. 2,424,241; July 22.
- Kerr, Howard J.: *See*—  
Carpenter, Otis R., and Kerr.
- Kerr, Howard J., Westfield, assignor to The Babcock & Wilcox Company, Jersey City, N. J. Fluid system. 2,413,717; Jan. 7.
- Kerr, John C., Allegan, Mich. Sweatband for hats. 2,432,164; Dec. 9.
- Kerr, Theodore W., West Hollywood, assignor to E. E. Kotkin, doing business as Plastics Process Company, Los Angeles, Calif. Supporting bracket. 2,432,241; Dec. 9.
- Kerridge, Frank E.: *See*—  
Box, Ernest R., and Kerridge.
- Kersenbrock, William J., and W. W. Riley, Brentwood, Mo. Hoist. 2,419,145; Apr. 15.
- Kersey, Robert S., Muncie, assignor to Great States Corporation, Shelbyville, Ind. Lawn mower frame brace. 2,433,126; Dec. 23.
- Kershaw, Henry, Belleville, N. J. Insulated bridge for junction boxes. 2,427,285; Sept. 9.
- Kershaw, Knox: *See*—  
Praytor, Dennis M., and Kershaw.
- Kershaw, Robert H., Long Beach, Calif. Lock for wrenches. 2,427,608; Sept. 16.
- Kerst Donald W.: *See*—  
Neddermeyer, Seth H., and Kerst.
- Kersta, Lawrence G.: *See*—  
Crump, Elmo E., and Kersta.
- Kesler, Carl C., and D. Rankin, assignors to Penick & Ford, Ltd., Incorporated, Cedar Rapids, Iowa. Cereal starch adhesive. 2,427,562; Sept. 16.
- Kesler, Martin L.: *See*—  
Lecher, Hans Z., and Kesler.
- Kesling, Elmer G., Bloomfield, Mo. Gear shifting mechanism. Re. 22,892; June 24.
- Kessenich, Gregory J.: *See*—  
Church, Joseph H., and Kessenich.
- Gray, John C., Thibodeau, Church, and Kessenich.
- Kessler, Frank, and H. J. McCreary, Lombard, assignors to Automatic Electric Laboratories, Inc., Chicago, Ill. Impulse testing apparatus. 2,416,102; Feb. 18.
- Kestenman Bros. Mfg. Co., assignee: *See*—  
Valcourt, Louis E.
- Keston, Rexa H., Minneapolis, Minn. Doll house. 2,428,628; Oct. 7.



- Ketarome Limited, assignee: *See*—  
Weizmann, Charles.
- Ketay, Morris F., Brooklyn, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Fire control means for aircraft gun mounts. 2,429,467; Oct. 21.
- Ketcham, Lyman G., Kearny, assignor to Automatic Manufacturing Corporation, East Newark, N. J. Mounting structure for electrical units. 2,429,468; Oct. 21.
- Ketchum, Eugene R., Kansas City, Mo., assignor to The Marley Company, Inc., Kansas City, Kans. Distribution deck for cooling towers. 2,419,452; Apr. 22.
- Ketchum, Milo C., Altadena, assignor to Cherry Rivet Company, Los Angeles, Calif. Tool for setting blind rivets. 2,428,165; Sept. 30.
- Ketchum, William R., Maricopa County, Ariz. Continuous decanter. 2,416,009; Feb. 18.
- Ketel, Henry, Holland, Mich. Pintle hook. 2,429,761; Oct. 28.
- Kethley, Thomas W.: *See*—  
Marquand, Carl B., and Kethley.
- Kettering, Charles F., assignor to General Motors Corporation, Detroit, Mich. Electrical control system. 2,417,112; Mar. 11.
- Kettering, Charles F., and A. W. Fisher, assignors to General Motors Corporation, Detroit, Mich. Automatic control. 2,432,667; Dec. 16.
- Ketz, Charles T., Novelty, Ohio. Combined leveling and bracing jack. 2,428,711; Oct. 7.
- Keuffel, Adolf W.: *See*—  
Ebert, Howard F., and Keuffel.
- Keuffel & Esser Company, assignee: *See*—  
Bland, James R.  
Christen, Charles.  
Ebert, Howard F., and Keuffel.  
Kuhl, Frank P.
- Keyes, George G., assignor to Teletype Corporation, Chicago, Ill. Slidably mounted tape loop former. 2,427,056; Sept. 9.
- Keyes, Grafton H., assignor to Eastman Kodak Company, Rochester, N. Y. Thioketones containing a cycloalkyl group. 2,429,469; Oct. 21.
- Keyes, John J.: *See*—  
Hill, Lawrence R., and Keyes.
- Keyser, Louis S.: *See*—  
Schlosser, Paul H., Gray, and Keyser.
- Keystone Manufacturing Co., The, assignee: *See*—  
Wenk, Edward A.  
Wenk, Edward A. and R. B.
- Keystone View Company, assignee: *See*—  
Alexander, Harry S.  
Kelly, Benjamin W.
- Keyzer-André, René: *See*—  
James, Joseph R., and Keyzer-André.
- Kezertee, Emery L.: *See*—  
Cole, Harry, and Kezertee.
- Kharasch, Morris S., Chicago, Ill., assignor to Eli Lilly and Company, Indianapolis, Ind. Producing dibasic acids and derivatives of dibasic acids. 2,426,224; Aug. 26.
- Kharasch, Morris S., Chicago, Ill., assignor to Eli Lilly and Company, Indianapolis, Ind. Dioxolanes and preparing them. 2,428,805; Oct. 14.
- Kharasch, Morris S., and C. F. Fuchs, Chicago, Ill., assignors to Eli Lilly and Company, Indianapolis, Ind. N-substituted phthalimides and their synthesis. 2,432,905; Dec. 16.
- Kiang, Piao, Washington, D. C. Fuse construction. 2,421,271; May 27.
- Kibbee, C. Merton, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Rotary brush. 2,417,113; Mar. 11.
- Kidd, Howard, Cincinnati, Ohio. Handle construction. 2,426,830; Sept. 2.
- Kidd, Thomas D., assignor of fifty one-hundredths to R. Kreiser, Mendota, Ill. Conveyor mechanism for portable grinding mills. 2,420,247; May 6.
- Kidde Manufacturing Co., Inc., assignee: *See*—  
Freygang, Walter H.  
Werry, John A.
- Kidde, Walter & Company, Inc., assignee: *See*—  
Cantlin, John H.
- Kidjel, Maurice, Honolulu, Hawaii. Compass card re-finishing stand. 2,416,323; Feb. 25.
- Kiefer, Karl, Machine Company, The, assignee: *See*—  
Hallead, Mervil.
- Kleffer, Jean, Norwich, Conn. Radiography. 2,426,884; Sept. 2.
- Kiekhaefer, Elmer C., Cedarburg, Wis. Magneto. 2,430,057; Nov. 4.
- Kienle, Roy H., and C. A. Amick, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Alkyl carbamates in color compositions. 2,421,622; June 3.
- Kienle, Roy H., and F. H. Adams, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Prevention of thinning of carbohydrate printing pastes containing diazonium salts with olefin carboxylic acid amides. 2,430,430; Nov. 4.
- Kiersted, Wynkoop, Jr., Scarsdale, assignor to The Texas Company, New York, N. Y. Reducing corrosive action of Friedel-Crafts type catalyst. 2,426,693; Sept. 2.
- Kiesling, Le Roy H., Brooklyn, N. Y. Gate and interlock for elevators. 2,433,763; Dec. 30.
- Kifer, Ward G., assignor to The Timken Roller Bearing Company, Canton, Ohio. Making stamping tools. 2,416,629; Feb. 25.
- Kihlgren, Theodore E., Scotch Plains, and C. E. Lacy, Westfield, N. J., assignors to The International Nickel Company, Inc., New York, N. Y. Welding electrodes. 2,422,439; June 17.
- Kihn, Harry, Lawrenceville, N. J., assignor to Radio Corporation of America. Microwave variable reactances. 2,427,100; Sept. 9.
- Kihn, Harry, Lawrenceville, N. J., assignor to Radio Corporation of America. Frequency modulated velocity-distance measurement system. 2,427,215; Sept. 9.
- Kihn, Harry, Lawrenceville, N. J., assignor to Radio Corporation of America. Microwave coupling device. 2,431,941; Dec. 2.
- Kilbourn, Karl B., assignor to Wingfoot Corporation, Akron, Ohio. Mold press. 2,431,048; Nov. 18.
- Kilbourn, Thomas, assignor to Economic Stampings Limited, Leicester, England. Chain. 2,424,320; July 22.
- Kilbourne, Charles E., Schenectady, N. Y., assignor to General Electric Company. Damper winding for synchronous machines. 2,419,839; Apr. 29.
- Kilchenmann, Walter, assignor to Sulzer Frères, Societe Anonyme, Winterthur, Switzerland. Free piston engine. 2,425,375; Aug. 12.
- Kile, Clifford S., Hutchinson, Kans. Method and apparatus for producing artificial dentures. 2,418,648; Apr. 8.
- Kilfoy, Leo T.: *See*—  
Le Gore, Tinus, and Kilfoy.
- Kilgore, George R., Princeton, N. J., assignor to Radio Corporation of America. Cathode-ray tube with inclined target. 2,420,176; May 6.
- Kilgore, Helen F.: *See*—  
Kilgore, Lowell B.
- Kilgore, Lowell B., Arlington, Va., assignor, by mesne assignments, to U. S. Industrial Chemicals, Inc. Rotenoid compositions. 2,415,802; Feb. 18.
- Kilgore, Lowell B., Arlington, Va., assignor, by mesne assignments, to L. B. Kilgore and H. F. Kilgore, Washington, D. C. N-substituted  $\alpha$ -oxacetamides and insect combating compositions. 2,426,885; Sept. 2.
- Kilham, Peter, Attleboro, Mass. Mechanical movement for indicators. 2,417,114; Mar. 11.
- Killa, Raymond T., Thiensville, Wis. Condiment dispenser. 2,431,049; Nov. 18.
- Killian, Ezekiel, assignor of one-fourth to E. L. Kotzen, one-fourth to S. R. Kotzen, one-fourth to M. E. Kotzen, Reading, Pa., and one-fourth to Howard C. Mohn Hosiery Co., Inc. Knitting apparatus and method. 2,426,357; Aug. 26.
- Killifer Manufacturing Corporation, assignee: *See*—  
Mitchell, Rollie H.
- Killorin, Francis O., Watertown, assignor to Scovill Manufacturing Company, Waterbury, Conn. Atomizer. 2,427,912; Sept. 23.
- Kimball, A. Company, assignee: *See*—  
Weimont, Joseph.
- Kimball, Albert W.: *See*—  
Harding, William R., Kimball, and Moore.
- Kimball, James L.: *See*—  
Earley, Roy C., and Kimball.
- Kimball, James L., Danvers, assignor to Ruggles-Klingemann Mfg. Co., Salem, Mass. Automatic adjustment means for regulators. 2,415,745; Feb. 11.
- Kimball, Wallace D., Jackson Heights, N. Y., assignor to Standard-Knapp Corporation, Portland, Conn. Case packer. 2,430,878; Nov. 18.
- Kimber, Arthur: *See*—  
Wachter, Lester W., and Kimber.
- Kimberlin, Charles N., Jr.: *See*—  
Owen, John J., and Kimberlin.  
Pierce, Jerry A., and Kimberlin.
- Kimberlin, Charles N., Jr., Baton Rouge, La., assignor to Standard Oil Development Company. Preparing aromatic amines. 2,432,099; Dec. 9.
- Kimberly, Albert E., Jr., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Power transmission control means. 2,427,408; Sept. 16.
- Kimble Glass Company, assignee: *See*—  
Bruckner, Robert E.
- Kimm, Ewald J., and B. R. Bellmann, assignors to Curtis Pump Company, Dayton, Ohio. Booster pump and tank assembly. 2,418,231; Apr. 1.
- Kimm, Ewald J., and B. R. Bellmann, assignors to Curtis Pump Company, Dayton, Ohio. Booster pump with vapor separating means. 2,419,146; Apr. 15.
- Kimmel, George P., Brookeville, Md. Hearing aid attachment for spectacles. 2,424,935; July 29.
- Kimsey, John E., Spokane, Wash. Punch board counter. 2,431,807; Dec. 2.
- Kinberg, Hjalmar, Ross, Calif., assignor to American Can Company, New York, N. Y. Container. 2,428,371; Oct. 7.
- Kinetic Chemicals, Inc., assignee: *See*—  
Benning, Anthony F.  
Benning, Anthony F., and Park.  
Downing, Frederick B., Benning, and McHarness.
- King, Alexander H.: *See*—  
Hasbrouck, Augustus, King, Porter, and Williams.



- King, Archie P., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Radiation and reception of microwaves. 2,416,698; Mar. 4.
- King, Archie P., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave reflection aircraft detector using rotating polarization. 2,421,028; May 27.
- King, Archie P., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Directive microwave antenna. 2,427,005; Sept. 9.
- King, Arthur E., Bridgewater, England, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Laminating process. 2,432,575; Dec. 16.
- King, Carl B., Wichita, Kans. Toolholder. 2,423,892; July 15.
- King, Carl M.: *See—*  
Dietert, Harry W., and King.
- King, Charles S., assignor to Blockson Chemical Co., Joliet, Ill. Manufacture of sodium tripolyphosphate. 2,419,147; Apr. 15.
- King, Charles S., assignor to Blockson Chemical Co., Joliet, Ill. Manufacture of sodium triphosphates. 2,419,148; Apr. 15.
- King, George E.: *See—*  
Formhals, William H., and King.
- King, George E., Swissvale, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system for electric drives. 2,416,181; Feb. 18.
- King, George E., Swissvale, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Torque control for paired electric motors. 2,424,321; July 22.
- King, George E., Swissvale, and W. H. Formhals, Forest Hills, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Variable voltage motor control system. 2,420,884; May 20.
- King, Gilbert W., Concord, assignor to Arthur D. Little, Inc., Cambridge, Mass. Method and equipment for indicating the water content of a gas. 2,429,694; Oct. 28.
- King, Gordon, Lewiston, Mich. Tractor-mounted circular-saw tree-felling machine with a laterally-acting tree-pusher. 2,426,694; Sept. 2.
- King, Harry, assignee: *See—*  
Finnerty, Samuel B.
- King, Harvey E., Jr.: *See—*  
Cunney, Walter F., and King.
- King, James A., Greensboro, N. C. Multiple bobbin gauge. 2,427,913; Sept. 23.
- King, James T., Manchester, assignor to Pioneer Parachute Company, Inc., Borough of Manchester, Conn. Quick release mechanism. 2,430,985; Nov. 18.
- King, John M., Dover, N. J. Anti-tank mine actuator. 2,420,317; May 13.
- King, John M., Dover, L. F. Young, Wharton, A. E. Reinhard, Dover, and F. Schultze, Rockaway, N. J. Arming vane for aerial bomb fuses. 2,417,418; Mar. 18.
- King, Robert H.: *See—*  
Kopezynski, John F., and King.
- King, Robert R., S. E. Pack, and F. W. Wharton, Sherman, Tex., assignors, by mesne assignments, to Mrs. Tucker's Foods, Incorporated. Oil bleaching process and apparatus. 2,428,082; Sept. 30.
- King, Ronald D., and N. F. Wood, Portsmouth, England. Stiff nut. 2,422,833; June 24.
- King-Sealey Corporation, assignee: *See—*  
Godley, Charles E.
- King, Walter J., Yakima, Wash. Stacking machine. 2,420,828; May 20.
- King, William R., Newark, N. J., assignor to Jas. H. Matthews & Co., Pittsburgh, Pa. Type holder. 2,424,397; July 22.
- Kingdom, Kenneth H., and E. J. Lawton, Schenectady, N. Y., assignors to General Electric Company. Gaseous discharge device. 2,416,927; Mar. 4.
- Kingerley, Richard W., Jr., Lakewood, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Electrolytic cleaning process. 2,420,602; May 13.
- Kingsley, Errol E., Multnomah County, Oreg. Razor. 2,421,205; May 27.
- Kingsley, Joseph F., Burbank, assignor to N. V. Andrews, Los Angeles, Calif. Retractable marking implement. 2,417,984; Mar. 25.
- Kingsmill, Robert E., Schenectady, N. Y., assignor to General Electric Company. Electric control circuit. 2,422,020; June 10.
- Kingston, Arthur W., Denham, England. Production of optical lenses, prisms, and like optical elements. 2,432,668; Dec. 16.
- Kingston, Jonas A.: *See—*  
Gascoigne, George H., and Kingston.
- Kinkead, Fullerton S.: *See—*  
Branson, David E., Kinkead, Kreck, and Locke.
- Kinkead, Fullerton S., deceased, New York, by R. S. Kinkead, administratrix, Trudeau, assignor to Bell Telephone Laboratories, New York, N. Y. Station selector system. 2,416,699; Mar. 4.
- Kinkead, Fullerton S., deceased, New York, by R. S. Kinkead, administratrix, Trudeau, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Counting relay system. 2,417,831; Mar. 25.
- Kinkead, Rita S.: *See—*  
Kinkead, Fullerton S.
- Kinkead, Rita S., administratrix: *See—*  
Branson, David E., Kinkead, Kreck, and Locke.  
Kinkead, Fullerton S.
- Kinley, Myron M., Houston, Tex. Explosively inserting orifices in pipe in wells. 2,426,106; Aug. 19.
- Kinman, Thomas H., and B. A. C. Tucker, Rugby, England, assignors to General Electric Company. Crystal detector. 2,429,823; Oct. 28.
- Kinnard, Frank M., Sebring, Ohio. Clay spreader. 2,417,255; Mar. 11.
- Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill. Draft gear. 2,416,928; Mar. 4.
- Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill. Coupler. 2,421,153; May 27.
- Kinnear Manufacturing Company, The, assignee: *See—*  
Lauferweiler, William J., and Thompson.
- Kinney, S. P., Engineers, Inc., assignee: *See—*  
Kinney, Selwyne P.  
Kinney, Selwyne P., and Hartwick.
- Kinney, Selwyne P., Crafton, assignor to S. P. Kinney Engineers, Inc., Pittsburgh, Pa. Blast furnace cooler. 2,415,595; Feb. 11.
- Kinney, Selwyne P., Crafton, assignor to S. P. Kinney Engineers, Inc., Pittsburgh, Pa. Operating blast furnaces. 2,420,398; May 13.
- Kinney, Selwyne P., Crafton, and L. M. Hartwick, Beaver, assignors, by mesne assignments, to S. P. Kinney Engineers, Inc., Pittsburgh, Pa. Checker brick heat exchanger. 2,428,461; Oct. 7.
- Kinsburg, Boris J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Scanning oscillator. 2,418,842; Apr. 15.
- Kinsley, Jason D., Cedar Rapids, Iowa. Dental articulator. 2,432,624; Dec. 16.
- Kinsman, Warren D.: *See—*  
Schneider, Stanley S., and Kinsman.
- Kintner, Edwin K., Millburn, assignor to Arco Welding & Machine Works, Inc., Jersey City, N. J. Pasteurizing apparatus. 2,428,880; Oct. 14.
- Kinyon, Bernard L., Richland Center, Wis. Sediment testing device. 2,414,044; Jan. 7.
- Kinzbach, Robert B., Houston, Tex. Machine tool holder. 2,433,127; Dec. 23.
- Kipke, Harry G., Detroit, assignor, by mesne assignments, to A. G. Martin, Dearborn, Mich. Solenoid and plunger therefor. 2,428,712; Oct. 7.
- Kipnis, Jerome L., Jacksonville, Fla. Device for indicating the synchronization of two revolving or rotating bodies. 2,430,125; Nov. 4.
- Kirby Development Corporation, assignee: *See—*  
Kirby, George L.
- Kirby, Frank G., assignee, et al.: *See—*  
Timoney, Andrew J.
- Kirby, George L., Houston, assignor to Kirby Development Corporation, San Antonio, Tex. Marine tower and placing same. 2,422,168; June 10.
- Kirby, James B., West Richfield, assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Apparatus for washing clothes. 2,432,766; Dec. 16.
- Kirby, James E.: *See—*  
Biehn, Gordon E., and Kirby.  
Dietrich, Melvin A., and Kirby.
- Kirby, Walter G., and L. E. Steidle, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y. Reclaiming waste polychloroprene. 2,414,428; Jan. 14.
- Kircher, August C.: *See—*  
Curry, Robert S., Jr., Horman, Kircher, and Winsker.
- Kircher, Paul J., Plainville, assignor to Landers, Frary & Clark, New Britain, Conn. Electric flatiron. 2,414,309; Jan. 14.
- Kircher, Raymond J., Neptune, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Two-way signal transmission system. 2,432,100; Dec. 9.
- Kirchhoff, Richard C., assignor to The Powers Regulator Company, Chicago, Ill. Thermostatic mixer for liquids. 2,424,891; July 29.
- Kirchner, Henry P., assignor to The Carborundum Company, Niagara Falls, N. Y. Coated abrasive article and manufacturing the same. 2,431,258; Nov. 18.
- Kirk & Blum Manufacturing Company, The, assignee: *See—*  
Carsey, Eugene A., and Stalker.
- Kirk, Douglas, Chicago, Ill., assignor, by mesne assignments, to Quaker Oats Company. Carton sealing apparatus. 2,425,064; Aug. 5.
- Kirk, Martin J.: *See—*  
Jacob, Frederick N., and Kirk.
- Kirk, Nels J., and H. W. Bottger, assignors to Continental Oil Company, Ponca City, Okla. Valve seat insert tool. 2,430,847; Nov. 11.
- Kirk, Philip M., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparation of beta-alanine. 2,416,630; Feb. 25.
- Kirk, Royden C., Arlington, Mass. Sand feeding means. 2,414,536; Jan. 21.



- Kirk, William S.: *See*—  
Bychinsky, Wilfred A., Ford, and Kirk.
- Kirkbride, Chalmers G., Galveston, and J. B. Hamblen, Texas City, Tex., assignors to Pan American Refining Corporation, New York, N. Y. Catalyst bed temperature control. 2,415,951; Feb. 18.
- Kirkpatrick, James B., Woodbury, C. H. Schlesman, Camden, and A. A. O'Kelly, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Multistage HF alkylation of isoparaffins by means of olefins. 2,430,228; Nov. 4.
- Kirkpatrick, Willis B., Scarsdale, N. Y. Apparatus for making ice. 2,414,264; Jan. 14.
- Kirsch Company, assignee: *See*—  
Allen, Archie A.  
Brtva, Lad.
- Kirsch, Frank K., Detroit, Mich. Die and punch mechanism. 2,427,409; Sept. 16.
- Kirsch, William A., Jersey City, N. J., and J. H. Sulzer, assignors to Western Electric Company, Incorporated, New York, N. Y. Orienting apparatus for articles having rounded surfaces. 2,418,355; Apr. 1.
- Kirschbaum, Harry M., Detroit, Mich. Method and apparatus for controlling the oxygen content of the blood of living animals. 2,414,747; Jan. 21.
- Kirschbraun, Lester, Leonia, N. J., assignor to The Patent and Licensing Corporation, New York, N. Y. Seal-down composition shingle. 2,421,892; June 10.
- Kirsten, Kurt F. J., Seattle, Wash. Multiplex bevel gearing. 2,418,555; Apr. 8.
- Kis, John, Racine, Wis. Adjustable toolholder. 2,423,983; July 15.
- Kischitz, Alexander D.: *See*—  
Babcock, Jesse H., and Kischitz.
- Kiser, Fred H., Los Angeles, Calif. Memorandum pad holder. 2,417,935; Mar. 25.
- Kisky, Christian, Oswego, Oreg. Toothbrush. Re. 22,938; Nov. 25.
- Kispert, Joseph J., Branford, Conn. Garment. 2,428,881; Oct. 14.
- Kistiakowsky, George B., and S. W. Benson, Cambridge, assignors to Godfrey L. Cabot, Inc., Boston, Mass. Making cyclobutane. 2,414,880; Jan. 28.
- Kistler Lesh & Company, assignee: *See*—  
Yukob, Peter.
- Kistler, Samuel S., West Boylston, assignor to Norton Company, Worcester, Mass. Halogenated cross-linked aromatic amine polymer. 2,414,748; Jan. 21.
- Kistler, Samuel S., West Boylston, assignor to Norton Company, Worcester, Mass. Resin bonded abrasive articles and making the same. 2,416,182; Feb. 18.
- Kistler, Samuel S., West Boylston, assignor to Norton Company, Worcester, Mass. Halohydrin reacted aromatic amine polymer. 2,416,262; Feb. 18.
- Kistler, Samuel S., West Boylston, assignor to Norton Company, Worcester, Mass. Impregnated abrasive wheel. 2,421,623; June 3.
- Kistler, Samuel S., West Boylston, assignor to Norton Company, Worcester, Mass. Halogenated aromatic amine-aldehyde polymer. 2,429,554; Oct. 21.
- Kistler, Samuel S., West Boylston, and L. Coes, Jr., Brookfield, assignors to Norton Company, Worcester, Mass. Abrasive. 2,417,419; Mar. 18.
- Kitselman, Harry L., and A. W. Holmes, assignors to Indiana Steel & Wire Company, Muncie, Ind. Line-wire reinforcement. 2,414,045; Jan. 7.
- Kittle, Russell L.: *See*—  
McCombie, Horace R., and Kittle.
- Kittler, Milton J., and C. F. Schorn, Detroit, Mich., assignors to G. M. and E. Holley. Mixture control device. 2,417,304; Mar. 11.
- Kittleson, Allan R.: *See*—  
Mikeska, Louis A., and Kittleson.
- Kittner, Harry, New York, N. Y. Weaving wide mesh fabric. 2,418,775; Apr. 8.
- Kivari, Arthur M., Los Angeles, Calif., assignor to The Dorr Company, New York, N. Y. Separating flocculatable and gritty solids from liquids. 2,425,065; Aug. 5.
- Kivell, Wayne A.: *See*—  
Contant, Peter M., Fischer, and Kivell.
- Kizaur, Arthur J., Cicero, assignor to General Electric X-Ray Corporation, Chicago, Ill. Respiration apparatus. 2,418,034; Mar. 25.
- Kjeldsen, Axel R., Kearney, N. J., assignor of one-half to K. G. Keldsen, New York, N. Y. Combination clothes hanger. 2,420,885; May 20.
- Kjellstrom, Stig B.: *See*—  
Hager, Bror O., and Kjellstrom.
- Kjorsvik, Bertha M., Wabasso, Fla. Pocketknife. 2,416,929; Mar. 4.
- Klaber, Joseph H., Philadelphia, assignor to Quaker Chemical Products Corporation, Conshohocken, Pa. Composition for waterproofing and fireproofing textile material, and treated material. 2,424,831; July 29.
- Klaber, Joseph H., Norwood, assignor to Quaker Chemical Products Corp., Conshohocken, Pa. Mineral oil rust-proofing composition. 2,430,058; Nov. 4.
- Klabunde, Walter, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Solvent for degreasing iron and aluminum. 2,422,556; June 17.
- Klages, Reynold E., and W. A. Flumerfelt, assignors to The Columbus Auto Parts Company, Columbus, Ohio. Joint construction. 2,426,358; Aug. 26.
- Klamfoth, John B.: *See*—  
Lisle, John T., and Klamfoth.
- Klaner, Joe F., Jr., assignee: *See*—  
Rosencranse, Charles R.
- Klara, John, Olyphant, Pa. Curtain and shade fixture. 2,430,345; Nov. 4.
- Klaus, Charles E., Portland, Oreg. Demand meter. 2,431,125; Nov. 18.
- Klausner, Bertha: *See*—  
Krasner, Harold E., and Klausner.
- Kleber, Jackson O., Long Island City, N. Y. Safety control device for electrically operated machines. 2,418,356; Apr. 1.
- Klee, Lester A., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Apparatus for coiling volute springs. 2,431,668; Nov. 25.
- Kleen Refrigerator, Inc., assignee: *See*—  
Erland & Kleen, Nils.
- Kleiber, Carl E., Irvington, D. L. Campbell, Short Hills, D. E. Stines, Plainfield, and C. C. Nelson, Cranford, N. J., assignors to Standard Oil Development Company. Dehydrogenating normal butenes to form butadiene. 2,414,816; Jan. 28.
- Kleiber, Carl E., Irvington, D. L. Campbell, Short Hills, D. E. Stines, Elizabeth, N. J., and G. T. Atkins, Highlands, Tex., assignors to Standard Oil Development Company. Quenching and cooling vapors. 2,414,817; Jan. 28.
- Kleiderlein, George, Bradford, Pa. Sucker rod scraper. 2,421,564; June 3.
- Kleimack, Joseph J.: *See*—  
Becker, Joseph A., Christensen, and Kleimack.
- Klein, Bella, New York, N. Y. Make-up protector mask. 2,432,767; Dec. 16.
- Klein, Benjamin: *See*—  
Klein, Goldie J., and B.
- Klein, Charles H., Amberley, Ohio. Shopper's bag. 2,424,277; July 22.
- Klein, David X., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing 1-hydroxy-4-arylamino anthraquinones. 2,419,405; Apr. 22.
- Klein, Elias, Washington, D. C. Acoustical apparatus. 2,416,324; Feb. 25.
- Klein, George J., now by change of name G. J. Kent, assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for and method of locating submarines. 2,432,625; Dec. 16.
- Klein, Goldie J. and B., Long Island City, N. Y. Greeting card. 2,415,501; Feb. 11.
- Klein, Gustav, Melrose Park, Pa. Dual time control device. 2,420,780; May 20.
- Klein, Gustav, Atlantic City, N. J., and P. S. Martin, Harrisonburg, Va. Magazine heating stove with gas combustion chamber. 2,420,781; May 20.
- Klein, Mathis, & Sons, assignee: *See*—  
Wendt, Walter F.
- Klein, Nicholas: *See*—  
Whyte, Daniel D., and Klein.
- Klein, Otto C., Baltimore, Md., assignor to The Glidden Company, Cleveland, Ohio. High dry hiding pigment process. 2,416,325; Feb. 25.
- Klein, William B., Chicago, Ill. Filter. 2,426,618; Sept. 2.
- Klein, William G., assignee: *See*—  
Lewis, Truman G.
- Kleinholz, Milton P.: *See*—  
Herlocker, Robert D., Kleinholz, and Watkins.
- Kleinholz, Milton P., East Chicago, Ind., assignor to Sinclair Refining Company, New York, N. Y. Oil compound. 2,427,501; Sept. 16.
- Kleimann, Jacob L., New York, N. Y. Shoulder pad. 2,422,834; June 24.
- Kleinmann, Max, New York, N. Y., assignor to Exactrol Corporation. Balanced necktie construction. 2,432,994; Dec. 23.
- Kleinschmit, Oskar: *See*—  
Müller, Oskar, and Kleinschmit.
- Klema, Walter E., and H. Sorenson, assignors to George Gorton Machine Co., Racine, Wis. Automatic screw machine, automatic lathe, and allied automatic machine tool. 2,417,936; Mar. 25.
- Klemes, I. Saul, assignee: *See*—  
Wein, Frank.
- Klemgard, Edwin N.: *See*—  
Bloom, Ralph, Jr., Klemgard, Ronay, and Miller.
- Klemperer, Hans, Belmont, assignor to Raytheon Manufacturing Company, Newton, Mass. Indicating system for welding apparatus. 2,433,371; Dec. 30.
- Klemperer, Wolfgang B., and E. H. Pier, West Los Angeles, Calif., assignors to Douglas Aircraft Company, Inc., Santa Monica, Calif. Apparatus for making computations electrically. 2,427,463; Sept. 16.
- Klie, Frank H., deceased, by L. E. Klie, Paris, Ill., executrix. Hand fan. 2,420,782; May 20.
- Klie, Lillian E., executrix: *See*—  
Klie, Frank H.
- Kliever, Waldo H., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Ice indicator. 2,432,669; Dec. 16.
- Kliever, Waldo H., and R. M. Franzel, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electronic circuit for indicating ice formation. 2,419,266; Apr. 22.



- Kline, Bernard L., Manhasset, assignor to The Western Union Telegraph Company, New York, N. Y. Electro-sensitive recording blank. 2,425,742; Aug. 19.
- Kline, Donald, Aurora, and Edgar M. Platt, assignors to Blackstone Manufacturing Co., Inc., Chicago, Ill. Conveyor and drive. 2,430,720; Nov. 11.
- Kline, Glen E., Royal Oak, assignor of sixty-five one-hundredths to B. R. Rowen, Flint, Mich. Machine for preforming plastic compounds. 2,429,268; Oct. 21.
- Kline, Halsey W., Schenectady, N. Y., assignor to General Electric Company. Radio transmission system. Re. 22,884; May 27.
- Kline, Halsey W., Schenectady, N. Y., assignor to General Electric Company. Fuse and switch unit. 2,417,692; Mar. 18.
- Kline, Halsey W., Schenectady, N. Y., assignor to General Electric Company. Microwave transmission system. 2,418,472; Apr. 8.
- Kline, Hayden B., and A. H. Burkholder, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Treating twisted filamentary materials. 2,421,334; May 27.
- Kline, Hayden B., and A. H. Burkholder, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Treating twisted filamentary materials. 2,421,335; May 27.
- Kline, Hayden B., and A. H. Burkholder, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Treating twisted filamentary materials. 2,421,336; May 27.
- Kline, Hayden B., and K. M. McLellan, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Conditioning artificial silk thread. 2,421,624; June 3.
- Kline, Hayden B., and A. H. Burkholder, Cleveland, and W. O. Israel, Lakewood, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Manufacture of thread or the like. 2,422,021; June 10.
- Kline, Herbert J., and A. D. Knapp, assignors to Mechanical Products, Inc., Jackson, Mich. Manufacturing tread parts and other similar articles. 2,430,986; Nov. 18.
- Kline, John E., Grosse Pointe Farms, assignor to Micromatic Hone Corporation, Detroit, Mich. Machining rectangular apertures. 2,420,140; May 6.
- Kline, William C., Oak Lawn, Ill. Coffee roasting apparatus. 2,422,102; June 10.
- Kling, Alfred G.; See—  
Jorgenson, John P., and Kling.
- Kling Bros. Engineering Works, assignee: See—  
Jorgenson, John P.  
Jorgenson, John P., and Kling.
- Kling, William F., assignor to The Murray Corporation of America, Detroit, Mich. Closure for automobile bodies of station wagon type. 2,422,912; June 24.
- Klinger, Earl W., Long Island City, N. Y., assignor to Standard Oil Development Company. Bituminous composition comprising an asphalt and a polymerized ester of methacrylic acid. 2,420,082; May 6.
- Klinghoffer, Stéfán, Paris, France; vested in the Attorney General of the United States. Retaining the radioactivity of liquids intended for injections. 2,423,240; July 1.
- Klingler, Paul C., Riverside, N. J. Ball retriever. 2,432,906; Dec. 16.
- Klingstrom, Ove; See—  
Liljestrom, Gustaf, and Klingstrom.
- Klinke, Henry O., Forest Hills, N. Y., assignor to Air Reduction Company, Incorporated. Method and apparatus for trimming and butt welding the ends of metal strips, plates, and the like. 2,422,787; June 24.
- Klipper, Joseph, New York, N. Y. Grinding facets on precious stones. 2,414,598; Jan. 21.
- Klock, Peter I., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Method and apparatus for working particles for production of metal powders or pastes. 2,431,565; Nov. 25.
- Klocke, William, Woodhaven, assignor to E. W. Bliss Company, Brooklyn, N. Y. Extrusion apparatus. 2,415,696; Feb. 11.
- Klopsch, Ferdinand T.; See—  
Evans, George H., Klopsch, and McCormick.
- Klose, Alfred J., Rolling Hills, Calif., assignor to Consolidated Vultee Aircraft Corporation. Aircraft wing connection. 2,425,099; Aug. 5.
- Klosz, Joseph B., Clifton, N. J. Universal jig. 2,416,010; Feb. 18.
- Klug, Charles W., assignor to Stewart-Warner Corporation, Chicago, Ill. Heater control. 2,421,565; June 3.
- Klug, Erhard, Suifern, N. Y. Switch operating mechanism. 2,430,935; Nov. 18.
- Kluit, Johannes F., Manistique, Mich. Pan handle. 2,431,808; Dec. 2.
- Klumb, George H.; See—  
Culligan, Emmett J., and Klumb.
- Klump, Ferdinand, Jr., Union, N. J. Self-locking bushing. 2,424,757; July 29.
- Klump, Ferdinand, Jr., Union, assignor to Heyman Manufacturing Company, Kenilworth, N. J. Strain-relief bushing. 2,424,756; July 29.
- Klump, Ferdinand, Jr., Union, assignor to Heyman Manufacturing Company, Kenilworth, N. J. Strain-relief bushing. 2,424,758; July 29.
- Klump, Ferdinand, Jr., Union, assignor to Heyman Manufacturing Company, Kenilworth, N. J. Strain-relief bushing. 2,424,759; July 29.
- Klump, Frank T.; See—  
Cannarili, Ortensio, and Klump.
- Klute, Anthony J.; See—  
Chamberlain, Frederic W., and Klute.
- Knaak, Carl L., Crafton, assignor of one-half to himself and one-half to C. F. Succop, Pittsburgh, Pa., jointly. Needle roller bearing spacer. 2,431,810; Dec. 2.
- Knaggs, Harold J., Cleveland, and G. H. Hufferd, Shaker Heights, assignors to The Weatherhead Company, Cleveland, Ohio. Cable tension regulator. 2,417,504; Mar. 18.
- Knapp, Arthur D.; See—  
Kline, Herbert J., and Knapp.
- Knapp, George N., Pine Lawn, Mo. Automatic railroad car coupler. 2,422,355; June 17.
- Knapp, Harry L., Detroit, Mich. Machine for grinding workpieces. 2,429,517; Oct. 21.
- Knapp, Harry L., Detroit, Mich. Metalworking machine. 2,431,126; Nov. 18.
- Knapp-Monarch Co., assignee: See—  
Moeller, George L.  
Schafnitz, Nicholas.
- Knapp-Monarch Company, assignee: See—  
Kochner, William B., and Ward.  
Weida, Millard F.
- Knapp, Nicholas, Jr., Queens Village, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Terminal block. 2,417,420; Mar. 18.
- Knapp, Oswald; See—  
Walton, William T., Coffey, and Knapp.
- Knapp, William A., assignor to General Chemical Company, New York, N. Y. Halogenated quinoline insecticides. 2,427,677; Sept. 23.
- Knapp, William A., New York, N. Y., and L. J. Heuser, Glen Ridge, N. J., assignors to General Chemical Company, New York, N. Y. Insecticide and method of using. 2,427,286; Sept. 9.
- Knapp, William C., Columbia, Pa. Lifter for hot or cold containers. 2,421,509; June 3.
- Knauer, Berthold, East Norwalk, Conn., assignor to Pitney-Bowes, Inc. One revolution trip means. 2,427,992; Sept. 23.
- Knaus, Nicholas, Cranford, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Presser device for sewing machines. 2,419,494; Apr. 22.
- Knaus, Nicholas, Cranford, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Trimmer adjusters for sewing machines. 2,427,609; Sept. 16.
- Knauss, Herman, Katonah, N. Y. Sorting cards. 2,415,891; Feb. 18.
- Knausz, Edward H., Philadelphia, Pa. Electric plug guide plate. 2,430,514; Nov. 11.
- Knearem, Harry T., Dallas, Tex., assignor to G. T. Shipman. Papermaking apparatus. 2,421,272; May 27.
- Knee, Simon, Newark, N. J. Wallet with secret compartment. 2,423,939; July 15.
- Kneitel, Harry; See—  
Breslow, Nathan, Steil, and Kneitel.
- Knibb, Leroy H., Sabot, Va. Ice-cream freezer. 2,416,326; Feb. 25.
- Knickerbocker Development Corporation, assignee: See—  
Dalzell, Clarence W.
- Knight, Eugene C.; See—  
Creson, William K., and Knight.
- Knight, John S.; See—  
Dunbar, James Y., and Knight.
- Knight Leather Products Co., Inc., assignee: See—  
Renz, Emil K.
- Knight, Lloyd O., Clarendon, Pa. Internal-combustion engine. 2,425,156; Aug. 5.
- Knight, Milton A.; See—  
Taylor, John A., and Knight.
- Knight, Milton A., Arlington, Va., and J. A. Taylor, Washington, D. C. Electronic control for charging circuits. 2,425,743; Aug. 19.
- Knight, Thomas F., Rockaway, N. J. Filler fixture having a wear ring and a support ring. 2,420,668; May 20.
- Knight, Thomas F., Rockaway Borough, N. J. Apparatus for loading shells. 2,426,619; Sept. 2.
- Knight, Walter S., Dravosburg, and W. A. Lindstrom, Swissvale, Pa., assignors to National Tube Company. Metal severing apparatus. 2,415,746; Feb. 11.
- Knight, William B., Fountain Inn, and A. R. Meadors, Jr., Greenville, S. C. Blowgun. 2,419,720; Apr. 29.
- Knipper, Francis E., Santa Ana, Calif. Vibrator. 2,425,621; Aug. 12.
- Knittercraft Mills, assignee, et al.: See—  
Imbriani, Louis.
- Knittel, Emil E., Malverne, N. Y. Rotary card filing device. 2,418,357; Apr. 1.
- Knittle, Gale L.; See—  
Earl, John A., and Knittle.
- Knobel, Max; See—  
Durbin, Vernon, and Knobel.
- Knoedler, Frederick E., Macomb, Ill. Resilient seat support. 2,432,554; Dec. 16.
- Knoll, Felix W. A., Los Angeles, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Wing flap extending mechanism. 2,423,984; July 15.
- Knopp, Harold E.; See—  
Borgerd, William F., Majer, Knopp, and Bennett.
- Knott, Clyde L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe sewing machine. 2,431,404; Nov. 25.



- Knott, Clyde L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Sewing machine. 2,433,053; Dec. 23.
- Knott, Edward B., Wealdstone, England, assignor to Eastman Kodak Company, Rochester, N. Y. 4-aryl thiazole (and selenazole)-5-acetic acids and esters and producing the same. 2,423,709; July 8.
- Knott, Edward B., Wealdstone, England, assignor to Eastman Kodak Company, Rochester, N. Y. Sensitized photographic emulsion. 2,423,710; July 8.
- Knowles, Edwin C., Beacon, and F. C. McCoy, assignors to The Texas Company, New York, N. Y. Making asphalt coating compositions. 2,415,697; Feb. 11.
- Knowles, Edwin C., G. C. McCoy, and J. A. Patterson, Beacon, assignors, by mesne assignments, to The Texas Company, New York, N. Y. Lubricating oil and lubricating. 2,417,305; Mar. 11.
- Knowles, Eileen B., Forbestown, Calif. Yarn substitute for knitting or crocheting activities and making the same. 2,416,758; Mar. 4.
- Knowles, Frank W., Seattle, Wash., assignor to Beltice Corporation. Ice machine. 2,419,953; May 6.
- Knowles, Frank W., Seattle, Wash. Winged-strap rotary compressor. 2,422,972; June 24.
- Knowles, Hugh S., River Forest, Ill., assignor to Jensen Manufacturing Company. Loud-speaker with pressure-equalized chamber system enclosing flux gap. 2,429,470; Oct. 21.
- Knowles, Raymond L.: *See*—  
Colton, Henry S., and Frischmuth, and Knowles.
- Knowles, Richard C.: *See*—  
White, Gifford E., and Knowles.
- Knowles, Richard C., New York; W. T. White, Hempstead; and H. Harris, Jr., Cedarhurst, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Stabilized gun control and tracking system. 2,414,108; Jan. 14.
- Knowles, Richard C., New York, and H. Harris, Jr., Cedarhurst, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Apparatus for parallax correction. 2,428,372; Oct. 7.
- Knowlton, Alfred D.: *See*—  
Carlson, Carl P., Chesnut, and Knowlton.
- Knowlton, Cutler D., Rockport, and G. F. C. Burke, Fairhaven, assignors to Hoague-Sprague Corporation, Lynn, Mass. Method of and machines for making blanks. 2,414,109; Jan. 14.
- Knowlton, Cutler D., Rockport, and D. Edgar, Lynn, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Glazing leather. 2,433,459; Dec. 30.
- Knowlton, M. D. Company, assignee: *See*—  
Stoltz, Raymond E.
- Knowlton, Norwood H., Rockport, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Last inserting machine. 2,427,356; Sept. 16.
- Knowlton, Norwood H., Rockport, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for effecting relative movement between shoes and lasts. 2,427,357; Sept. 16.
- Knox, Harry A., Washington, D. C. Track support. 2,419,955; May 6.
- Knox, Harry A., Washington, D. C. Vehicle suspension. 2,427,006; Sept. 9.
- Knox, Roy R., New Orleans, La. Ball-bearing foot for furniture and the like. 2,423,711; July 8.
- Knox, Samuel L. G., New York, assignor to Lamson Corporation, Syracuse, N. Y. Conveyor system. 2,427,057; Sept. 9.
- Knox, Samuel S., Long Beach, Calif. Aircraft instrument. 2,413,924; Jan. 7.
- Knox, Samuel S., Long Beach, Calif. Power rotation of aircraft wheels. 2,417,937; Mar. 25.
- Knox, Samuel S., Long Beach, Calif. Launching and landing of land-based airplanes. 2,425,886; Aug. 19.
- Knoy, Marion F., Long Beach, assignor to R. T. Collier, Wilmington, Calif. Vapor-liquid cooling cycle for engines. 2,413,770; Jan. 7.
- Knudsen, Alex W.: *See*—  
Wallace, Robert H., and Knudsen.
- Knudsen, Valdemar: *See*—  
McLemore, Price C., and Knudsen.
- Knuth, Harvey G., Elgin, assignor to Lyon Metal Products, Incorporated, Aurora, Ill. Shelving, including shelf adjustment fastener. 2,415,825; Feb. 18.
- Knutson, Amos T., and E. F. Graves, Midland, Mich., assignors to The Lubri-Zol Corporation, Wickliffe, Ohio. Lubricating composition. 2,422,243; June 17.
- Kober, Solomon W., Billings, Mont. Hydraulic loader and stacker. 2,421,566; June 3.
- Kobilsky, Manuel J.: *See*—  
Bard, Elliott, and Kobilsky.
- Kobiolke, Adolf M., Gilderoy, Victoria, Australia. Seasoning timber. 2,422,557; June 17.
- Kocevar, Anthony, Garfield Heights, Ohio. Reducing coupling. 2,419,453; Apr. 22.
- Koch, August K. F., Detroit, Mich. Plastic machine. 2,426,457; Aug. 26.
- Koch, George J.: *See*—  
Wittel, Otto, Koch, and Boon.
- Koch, Gustav H., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Shaft bearing construction. 2,427,947; Sept. 23.
- Koch, Gustav H., and Charles O. Egerton, Springfield, Mass., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Air translating apparatus. 2,433,280; Dec. 23.
- Koch, Stanley J., Clifton, and R. E. Rutherford, Rutherford, assignors to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Gun structure for cathode-ray tubes. 2,429,824; Oct. 28.
- Koch, Winfield R., Haddonfield, N. J., assignor to Radio Corporation of America. Angle-modulation wave receiver. 2,413,977; Jan. 7.
- Koch, Winfield R., Haddonfield, N. J., assignor to Radio Corporation of America. Amplitude limiter circuit. 2,420,248; May 6.
- Koch, Winfield R., Haddonfield, N. J., assignor to Radio Corporation of America. Combined frequency modulation and amplitude modulation detector circuits. 2,429,762; Oct. 28.
- Kocher, Daniel W., Chicago, Ill., assignor, by mesne assignments, to Universal Atlas Cement Company, Indianapolis, Ind. Refractory concrete. 2,416,700; Mar. 4.
- Kocher, Daniel W., Chicago, Ill., assignor, by mesne assignments, to Universal Atlas Cement Company, Indianapolis, Ind. Refractory concrete. 2,416,701; Mar. 4.
- Kochli, Ernest G., Brooklyn, assignor to Applied Sugar Laboratories, Inc., New York, N. Y. Centrifugal apparatus for impregnating one material with another. 2,427,101; Sept. 9.
- Kochner, William B., St. Louis, Mo., and L. T. Ward, Philadelphia, Pa., assignors, by mesne assignments, to Knapp-Monarch Company, St. Louis, Mo. Safety valve. 2,427,287; Sept. 9.
- Koci, Jerry C., Riverside, and A. J. Schlappa, Elmwood Park, assignors, by mesne assignments, to Chicago Coin Machine Co., Chicago, Ill. Simulated basketball game apparatus. 2,433,224; Dec. 23.
- Koci, Ludvik J., assignor to Sunbeam Corporation, Chicago, Ill. Sadrion. 2,415,795; Feb. 11.
- Koci, Ludvik J., assignor to Sunbeam Corporation, Chicago, Ill. Electric toaster heating unit. 2,419,355; Apr. 22.
- Koci, Ludvik J., Chicago, Ill., assignor to Sunbeam Corporation. Temperature responsive control mechanism. 2,422,199; June 17.
- Koci, Ludvik J., assignor to Sunbeam Corporation, Chicago, Ill. Temperature responsive control mechanism. 2,426,620; Sept. 2.
- Koebe, Paul F., Jackson, Mich. Angularity indicator for grinding cranks. 2,419,406; Apr. 22.
- Koechlin, Renaud, Boulogne-Billancourt, France, assignor to International Standard Electric Corporation, New York, N. Y. System for measuring frequency deviations. 2,423,103; July 1.
- Koehl, Charles R., and R. Messner, Hancock, Minn. Material-handling machine. 2,415,892; Feb. 18.
- Koehler, Franz, Leuna, Germany; vested in the Attorney General of the United States. Recovery of nitrogen and oxygen. 2,422,626; June 17.
- Koehler, Frederick W., Pittsburgh, and J. W. G. Hannon, Washington, Pa. Apparatus for measuring pulmonary capacity of human beings. 2,427,145; Sept. 9.
- Koehring Company, assignee: *See*—  
Beckwith, Raymond A.,  
Lichtenberg, Erich H., and Robb,  
Mortag, Edward H.
- Koenig, Albert, Chicago, Ill. Golfer's shoe. 2,416,526; Feb. 25.
- Koenig, Edgar A., Dallas, Tex., assignor, by mesne assignments, to Socony Vacuum Oil Company, Incorporated, New York, N. Y. Supporting and carrying filter elements. 2,417,000; Mar. 4.
- Koenig, Martin F., and A. W. Krieger, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Electric switch. 2,428,848; Oct. 14.
- Koenig, Walter, Jr., Clifton, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Analysis and representation of complex waves. 2,429,229; Oct. 21.
- Koeper, Aelred A., Dayton, Ohio. Aerial photographic image motion compensating system. 2,424,989; Aug. 5.
- Koerber, Walter L., Kingston, N. J., assignor to E. R. Squibb & Sons, New York, N. Y. Producing penicillin. 2,424,832; July 29.
- Koertge, Nobel H., Glen Ellyn, Ill., assignor to Hotpoint Inc. Dish washing and drying apparatus. 2,422,022; June 10.
- Koester, Herman, assignor to The Bristol Company, Waterbury, Conn. Belt hook package. 2,420,783; May 20.
- Koffer, Albert E., assignor to General Motors Corporation, Dayton, Ohio. Gear pump for aeronautical apparatus. 2,432,576; Dec. 16.
- Koeller, John J., assignee: *See*—  
Stern, Benjamin A.
- Kohen, Sol H.: *See*—  
Schuppach, Rene M., and Kohen.
- Kohl, Everard F., Cleveland, Ohio. Variable pitch propeller. 2,414,599; Jan. 21.
- Kohl, William B., Glenview, Ill. Sealing and locking closure. 2,415,139; Feb. 4.
- Kohl, William R., Glenview, Ill. Garment hanger. 2,426,556; Aug. 26.
- Köhler, Peter M.: *See*—  
Bäckström, Sigurd M., and Köhler.



- Kohlhagen, Walter, assignor to Elgin National Watch Company, Elgin, Ill. Motion controlling device. 2,423,985; July 15.
- Kohn, Julius: *See—*  
Kolberg, Abner, and Kohn.
- Kohn, Ralph R., Lancaster, Pa. Spliced pile construction. 2,430,879; Nov. 18.
- Kohnstamm, H., & Co., Inc., assignee: *See—*  
Phalt, Robert A., and Schnakenberg.
- Kolnzan, Walter J., Elgin, Nebr. Welding electrode holder. 2,432,019; Dec. 2.
- Kolb, Joseph E. E., West Los Angeles, Calif. Rotary internal-combustion engine. 2,432,426; Dec. 9.
- Kolberg, Abner, Mount Vernon, and J. Kohn, New York, assignors, by mesne assignments, to Colby Lighter Corporation, Mount Vernon, N. Y. Lighter. 2,427,058; Sept. 9.
- Kold-Hold Manufacturing Company, assignee: *See—*  
McGuffey, Orton S.
- Kolff, Petrus van S., Harwich Port, Mass., assignor to The Electric Tachometer Corporation, Philadelphia, Pa. Step-by-step motor. 2,428,882; Oct. 14.
- Kollen, Myron H., Ferndale, Mich., and M. T. Flaxman, Whittier, assignors to Union Oil Company of California, Los Angeles, Calif. Rust-preventive composition. 2,418,075; Mar. 25.
- Kollenberg, Conrad H., Goose Creek, and N. P. Peet, Baytown, Tex., assignors to Standard Oil Development Company. Precoating filters. 2,423,780; July 8.
- Koller, Emil, Zurich, Switzerland. Ski binding. 2,429,413; Oct. 21.
- Koller, Steven, Detroit, Mich. Tool for magnetic lifting. 2,417,762; Mar. 18.
- Kolmodin, Chester N.: *See—*  
Robertson, John A., Camp, and Kolmodin.
- Kolody, John: *See—*  
Miller, Alfred J., Weldner, and Kolody.
- Kolstad, Welding J., Milton, Mass. Electrode holder. 2,428,083; Sept. 30.
- Komenak, Albert J., assignor to The Excelsior Hardware Company, Stamford, Conn. Hasp fastener with aligning tongues. 2,416,631; Feb. 25.
- Kominek, Edward, Jr.: *See—*  
Kahn, James M., and Kominek, Jr.
- Komline-Sanderson Engineering Corporation, assignee: *See—*  
Komline, Thomas R.
- Komline, Thomas R., Glen Rock, assignor to Komline-Sanderson Engineering Corporation, Ridgewood, N. J. Continuous rotary drum filter. 2,426,886; Sept. 2.
- Kondritzer, Albert A.: *See—*  
Lustig, Bernard, and Kondritzer.
- Konet, Henry, Paramus, assignor to Bendix Aviation Corporation, Teterboro, N. J. Photoelectric drift indicator. 2,425,541; Aug. 12.
- Koniecz, Frank, Baltimore, and H. J. Vennes, Towson, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Mounting and adjusting potentiometer elements. 2,419,952; May 6.
- Konig, Evelyn M., Hudson, N. Y. Electrical massaging device. 2,427,610; Sept. 16.
- Konikoff, John J.: *See—*  
Elder, Robert M., Domoj, Wise, and Konikoff.
- Koning, Gerald, Muskegon, Mich., assignor to The L. S. Starrett Company, Athol, Mass. Machinist's gauge. Re. 22,921; Sept. 30.
- Konkle, Charles R., assignor to International Derrick & Equipment Company, Columbus Ohio. Cable-gripping mechanism. 2,424,760; July 29.
- Konkle, Philip J., Mount Healthy, assignor to The Crosley Corporation, Cincinnati, Ohio. Intermittent motion device. 2,415,390; Feb. 4.
- Koolnis, Stanley R., Stamford, Conn. Portable carrier. 2,417,421; Mar. 18.
- Kooman, Jacob J., assignor to Confections, Inc., Chicago, Ill. Confectionery making machine. 2,425,942; Aug. 19.
- Koon, Arthur J.: *See—*  
McKay, William J. A., and Koon.
- Koontz, Lamont B., Deer Lodge, Mont. Closure. 2,419,648; Apr. 29.
- Koontz, Lamont B., Deer Lodge, Mont. Control apparatus. 2,423,781; July 8.
- Koontz, John C.: *See—*  
Quinnell, La Vern E., Koonz, and Severance.
- Koonz, John C., L. E. Quinnell, and R. H. Severance, assignors to The Magnavox Company, Fort Wayne, Ind. Solenoid. 2,417,832; Mar. 25.
- Koos, Paul V.: *See—*  
Bonorden, Allen R., Koos, Krecke, Large, and Marshall.
- Kopezynski, John F., Buffalo, N. Y. Die. 2,431,566; Nov. 25.
- Kopezynski, John F., Buffalo, and R. H. King, North Tonawanda, N. Y. Tool. 2,431,567; Nov. 25.
- Kopeck, Walter, assignor to Republic Steel Corporation, Cleveland, Ohio. Progressively welding axially moving tubing. 2,422,305; June 17.
- Kopp, Ernest, Brooklyn, N. Y. Bookholder. 2,419,721; Apr. 29.
- Kopp, Jean, Berne, Switzerland. Control apparatus for variable pitch propeller adjusting devices. 2,423,191; July 1.
- Koppelman, Morris D.: *See—*  
Franz, Arvel O., Martinez, and Koppelman.
- Koppers Company, Inc., assignee: *See—*  
Chadder, William J.  
Conners, Peter J.  
Corson, Ben B., and Brady.  
Gollmar, Herbert A.  
Hill, William H.  
Jarrett, Tracy C., and Guerke.  
Keeling, William O.  
Landgraf, George F.  
Mitchell, John, Hill, and Gollmar.  
Mitchell, John, and Webb.  
Nickels, Joseph E.  
Rhodes, Philip H.  
Rodman, Hugh, Jr.  
Swietoslawski, Wojciech.
- Kopplin, Frederick W., Hardin, Mont. Method and apparatus for centrifugally washing sugar, chemicals, etc. 2,418,776; Apr. 8.
- Kopplin, Karl J., St. Louis, Mo. Self-locking mold. 2,420,709; May 20.
- Kopplin, Karl J., St. Louis County, Mo. Heat sealing laminated materials. 2,431,050; Nov. 18.
- Kops, Earl A.: *See—*  
Sanborn, Daniel S., and Kops.
- Kordish, John J., and M. Trotta, Hibbing, Minn., assignor to Oliver Iron Mining Company. Door operating mechanism for dump cars. 2,428,629; Oct. 7.
- Koret, Stephanie D., San Francisco, Calif. Skirt. 2,424,398; July 22.
- Koret, Stephanie D., San Francisco, Calif. Garment. 2,431,809; Dec. 2.
- Koretzky, Israel, Clifton, and F. A. Keller, East Paterson, assignors to Bright Star Battery Company, Clifton, N. J. Flashlight battery with plastic casing. 2,427,914; Sept. 23.
- Korff, Walter H., Burbank, Calif. Adjustable pitch propeller. 2,422,558; June 17.
- Korkowski, Joseph M., Minneapolis, Minn. Safety device for presses. 2,429,065; Oct. 14.
- Korman, Alexander, New York, N. Y. Nose filter. 2,433,565; Dec. 30.
- Korman, David A., Forest Hills, N. Y. Light beam comparator. 2,427,790; Sept. 23.
- Korman, Nathaniel I.: *See—*  
Sontheimer, Carl G., and Korman.
- Korman, Nathaniel I., Camden, N. J., assignor to Radio Corporation of America. Amplitude modulation reducing circuit. 2,420,249; May 6.
- Korman, Nathaniel I., Camden, N. J., assignor to Radio Corporation of America. Ultra high frequency ignition device. 2,421,790; June 10.
- Korman, Nathaniel I., Camden, N. J., assignor to Radio Corporation of America. Reactance tube controlled generator. 2,422,422; June 17.
- Korman, Nathaniel I., Camden, N. J., assignor to Radio Corporation of America. Reflectometer for transmission lines and waveguides. 2,423,390; July 1.
- Korman, Nathaniel I., Camden, N. J., assignor to Radio Corporation of America. Frequency comparison and control circuit. 2,424,833; July 29.
- Korman, Nathaniel I., Camden, N. J., assignor to Radio Corporation of America. Phase modulation. 2,430,126; Nov. 4.
- Kormendi, Laszlo, assignee, et al.: *See—*  
Obey, James H.
- Korn, John J., Butte, Mont. Skip. 2,424,620; July 29.
- Korpi, Karl J.: *See—*  
Stone, Charles M., and Korpi.
- Korpiun, Joachim, Birkenwerder, near Berlin, Germany, assignor to Sherka Chemical Co., Inc., Bloomfield, N. J. Providing aluminum and aluminum alloys with metal coatings. 2,418,265; Apr. 1.
- Korte, Alfred C., assignor to Carter Carburetor Corporation, St. Louis, Mo. Brush structure with parallel flakes. 2,419,356; Apr. 22.
- Korte, Alfred C., assignor to Carter Carburetor Corporation, St. Louis, Mo. Pump mounting. 2,424,469; July 22.
- Korum, Henry E., East Moline, assignor to Deere & Company, Moline, Ill. Feeding device. 2,421,124; May 27.
- Korum, Henry E., East Moline, assignor to Deere & Company, Moline, Ill. Feed hopper. 2,423,192; July 1.
- Kosey, Elwin R., Ontonagon, Mich. Bow facing oarlock. 2,422,835; June 24.
- Kosmin, Milton: *See—*  
Gluesentump, Earl W., and Kosmin.
- Koster, Frederick W., and A. Bruenner, Meadville, Pa., assignors to American Viscose Corporation, Wilmington, Del. Method and apparatus for producing crimped staple fibers. 2,418,125; Apr. 1.
- Koster, John, assignor to Crimora Research and Development Corporation, Crimora, Va. Recovering manganese from its ores. 2,430,346; Nov. 4.
- Kothny, Gottdank L., Strafford, assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa. Well surveying instrument. 2,415,249; Feb. 4.
- Kothny, Gottdank L., Strafford, assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa. Well surveying device. 2,424,358; July 22.
- Kotkin, E. E., assignee: *See—*  
Kerr, Theodore W.



- Kott, Hermann, West Orange, N. J., and M. Yawitz, assignors to Fish-Schurman Corporation, New York, N. Y. Abrasive composition and forming same. Re. 22,854; Mar. 18.
- Kotteman, Otto A., assignor to William D. Dodenhoff, Greenville, S. C. Loom and hydraulic check therefor. 2,426,971; Sept. 2.
- Kottemann, Otto A., assignor to William D. Dodenhoff, Greenville, S. C. Hydraulic check for looms. 2,433,764; Dec. 30.
- Kotterman, Chester A.: *See—*  
Fiore, William, and Kotterman.
- Kotterman, Chester A., Livingston, N. J., assignor to Federal Telephone and Radio Corporation. High current rectifier. 2,414,471; Jan. 21.
- Kotzen, E. Louis, assignee, et al.: *See—*  
Killian, Ezekiel.
- Kotzen, Myer C., assignee, et al.: *See—*  
Killian, Ezekiel.
- Kotzen, Samuel R., assignee, et al.: *See—*  
Killian, Ezekiel.
- Kovach, Stephen, New York, N. Y. Pneumatically operated marking machine. 2,427,358; Sept. 16.
- Kovacic, Vincent: *See—*  
Manderscheid, James J., Ratkovich, and Kovacic.
- Kovacs, William R.: *See—*  
Van Sittter, Paul, and Kovacs.
- Kovalsky, Joseph F., Turtle Creek, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Regulating system. 2,426,027; Aug. 19.
- Kovitz, Pearl B., Brooklyn, N. Y. Neck and headwear. 2,431,568; Nov. 25.
- Kowalski, Conrad S., Manchester, Conn., assignor to Pioneer Parachute Company, Inc. Parachute back pack and harness assembly. 2,430,773; Nov. 11.
- Kozanowski, Henry N., Collingswood, N. J., assignor to Radio Corporation of America. Power supply system. 2,431,051; Nov. 18.
- Kozloff, John B., Brooklyn, N. Y. Screen printing table. 2,423,391; July 1.
- Kraatz, Karl L.: *See—*  
Vilter, Ernest F., Michener, Kraatz, Ruess, and Bach.
- Kraaymes, Arnold C., assignor of one-half to O. M. Kraaymes, Orlando, Fla. Airplane wing of variable area construction. 2,420,433; May 13.
- Kraaymes, Olive M., assignee: *See—*  
Kraaymes, Arnold C.
- Krabbe, Ulrik H., assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Regulating a machine voltage. 2,429,724; Oct. 28.
- Kraft Foods Company, assignee: *See—*  
Linstedt, William F.  
Ormond, John I.  
Riggs, Lloyd K.
- Kraft, George J., Wilkes-Barre, Pa. Garment hanger. 2,421,071; May 27.
- Kraft, Herman T., assignor to The General Tire & Rubber Company, Akron, Ohio. Aircraft landing gear. 2,416,183; Feb. 18.
- Kraft, Herman T., assignor to The General Tire & Rubber Company, Akron, Ohio. Retread vulcanizing device. 2,422,788; June 24.
- Kraft, Herman T., assignor to The General Tire & Rubber Company, Akron, Ohio. Tire mounting rim. 2,427,216; Sept. 9.
- Kraft, Herman T., assignor to The General Tire & Rubber Company, Akron, Ohio. Friction facing for cone brakes. 2,430,936; Nov. 18.
- Kraft, Selmer A.: *See—*  
Johnson, Albert L., and Kraft.
- Krag, Franz K., assignee: *See—*  
Nelson, John V.
- Krag Steel Products, Inc., assignee: *See—*  
Nelson, John V.
- Krajniak, Joseph T.: *See—*  
Bauer, Hans A., Deli, and Krajniak.
- Kraker, Bernard I., Melrose, assignor of one-half to F. Roeder, Belgrade, Minn. Vapor receiver. 2,427,288; Sept. 9.
- Krall, Mark B., Lebanon, Pa. Drain plug. 2,420,177; May 6.
- Kramer, Adrian P., Detroit, Mich., assignor to National Steel Corporation. Trimming apparatus. 2,417,556; Mar. 18.
- Kramer, Daniel, Fairview Village, Ohio. Removable spike for golf shoes. 2,421,072; May 27.
- Kramer, Daniel, Cleveland, Ohio. Putter used in playing golf. 2,426,274; Aug. 26.
- Kramer, Linzie F., Vallejo, Calif. Guard device for circular-saw table sawing machine. 2,425,331; Aug. 12.
- Kramer, Nathan, assignor to Kramer Trenton Company, Trenton, N. J. Heat exchange element. 2,426,107; Aug. 19.
- Kramer Trenton Company, assignee: *See—*  
Kramer, Nathan.
- Kramsky, Irwin, Chicago, and M. J. Holik, Berwyn, assignors to Ditto, Incorporated, Chicago, Ill. Hectograph blanket. 2,426,935; Sept. 2.
- Kranc, Stanley J.: *See—*  
Furstoss, Ralph J., Kranc, and McWherter.
- Krantz, John C. Jr., Baltimore, Md. and J. M. Holbert, Chattanooga, Tenn. Pharmaceutical composition containing theophylline. 2,433,765; Dec. 30.
- Krantz, Walter M., assignor to Ace Storm Window Company, Youngstown, Ohio. Storm window construction. 2,427,915; Sept. 23.
- Krantz, Walter M., assignor to Ace Storm Window Company, Youngstown, Ohio. Storm window. 2,430,059; Nov. 4.
- Kraose, Leander F.: *See—*  
Mohr, Charles B., and Krause.
- Krasa, Albert, San Diego, Calif. Tumbling cylinder for gaging and assorting rivets according to shank diameter. 2,427,410; Sept. 16.
- Krasberg, Rudolf, Chicago, Ill. Window locking device. 2,414,153; Jan. 14.
- Krasner, Harold E., and B. Klausner, New York, N. Y. Smoke pot cover. 2,419,357; Apr. 22.
- Krasnov, Joseph A., Melrose Park, and M. M. Kuller, assignors to Sure-Fit Products Company, Darby, Pa. Textile fabric. 2,429,187; Oct. 14.
- Krasnow, Shelley, New York, N. Y., assignor to Geophysical Development Corporation, Washington, D. C. Apparatus and method for recording borehole radioactivity. 2,416,702; Mar. 4.
- Krasnow, Shelley, Arlington County, Va., assignor to Geophysical Development Corporation, Washington, D. C. Method and apparatus for taking physical measurements in boreholes. 2,421,423; June 3.
- Kratz, Edouard M., Gary, Ind., assignor, by mesne assignments, to Carbide and Carbon Chemicals Corporation, New York, N. Y. Sheet making mechanism. 2,421,073; May 27.
- Kratz, John A., Yonkers, N. Y., and H. G. Thoma, Rutherford, N. J., assignors to The Linde Air Products Company. Welding electrode nozzle. 2,428,849; Oct. 14.
- Kraus, Charles A., and A. S. Lehmann, Providence, R. I., C. L. Morris, Cambridge, Mass., and C. R. Witschonke, Chicago, Ill. Apparatus for chemical fractionation. 2,424,399; July 22.
- Kraus, Charles E., Rochester, N. Y. Cutting tool and tip therefor. 2,414,231; Jan. 14.
- Kraus, Charles E., Sparks, Md. Coating with alkali silicate. 2,419,080; Apr. 15.
- Kraus, Clarence W., Buffalo, N. Y. Manufacturing building elements. 2,431,615; Nov. 25.
- Kraus, John W.: *See—*  
Van Epps, John N., Kraus, and Magyar.
- Krause, Albert J., Seattle, Wash. Thread lock nut. 2,424,242; July 22.
- Krause, Irving A., Jersey City, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Communication system. 2,426,225; Aug. 26.
- Krause, Leonard: *See—*  
Williams, John G., and Krause.
- Krause, Norman R., assignor to J. I. Case Company, Racine, Wis. Adjustably mounted bearing. 2,425,943; Aug. 19.
- Krause, William K., Los Angeles, Calif. Variable tension violin bow. 2,421,567; June 3.
- Kraut, Hans B., K. F. Gallimore, and E. K. Morgan, assignors to Giddings & Lewis Machine Tool Co., Fond du Lac, Wis. Machine tool. 2,426,621; Sept. 2.
- Krebs, Daniel D., Albert Lea, assignor, by mesne assignments, to L. W. Myers, W. R. Anderson, J. R. Nelson, A. L. Anderson, and N. P. Benson, Minneapolis, C. L. Waldo, Duluth, Minn., and R. E. Lindmark, Eau Claire, Wis., co-partners doing business as Cosmet Company, Minneapolis, Minn. Apparatus for swedging screws on ophthalmic mountings. 2,426,275; Aug. 26.
- Krebs, Ernst T., San Francisco, Calif. Processing wood for the rapid maturation and aging of table wines. 2,415,431; Feb. 11.
- Krebs, Ernst T., San Francisco, Calif. Processing wood for the rapid maturation of whiskey and other alcoholic liquors and wines. 2,417,505; Mar. 18.
- Krebs, Paul, Detroit, Mich. Low voltage hot knife. 2,421,125; May 27.
- Krebs, Robert W., Baton Rouge, La., assignor to Standard Oil Development Company. Stripping of spent catalyst particles in the catalytic conversion of hydrocarbons. 2,418,890; Apr. 15.
- Krebs, Roland, Webster Groves, Mo. Portable dishwashing device. 2,425,812; Aug. 19.
- Krebs, Adolf, Riehen, near Basel, W. Bossard, and P. Hindermann, assignors to J. R. Geigy A. G., Basel, Switzerland. Metallizable polyazo dyes from benzidine intermediates. 2,417,306; Mar. 11.
- Kreck, Joseph A.: *See—*  
Bonorden, Allen R., Koos, Kreck, Large, and Marshall.
- Branson, David E., Kinkead, Kreck, and Locke.
- Kreer, John G., Jr.: *See—*  
Bollman, John H., and Kreer.
- Kreher, Ernest, Tampa, Fla. Rotary drum stratifier for minerals. 2,428,974; Oct. 14.
- Kreisberg, Matthew J., New York, N. Y. Garment and shoulder pad therefor. 2,415,698; Feb. 11.
- Kreiser, Ray, assignee: *See—*  
Kidd, Thomas D.
- Kreisler, Jacques, Manufacturing Corporation, assignee: *See—*  
O'Larte, Rudolph, and Speck.
- Kreitner, Johann: *See—*  
Nettel, Frederick, and Kreitner.
- Kreitner, Johann, and R. M. Kristal, New York, N. Y. Determining GM of a ship. 2,431,405; Nov. 25.



- Krejci, Joseph C., Kaw, Okla., assignor to Phillips Petroleum Company. Carbon black process and apparatus. 2,419,565; Apr. 29.
- Kremer, Edward H.: *See*—  
Freedlander, Abraham L., Waugh, and Kremer.
- Kremers, Harry C., Cleveland Heights, and R. E. Price, Cleveland, assignors to The Harshaw Chemical Company, Elyria, Ohio. Making optical bodies. 2,420,955; May 20.
- Kremers, Harry C., Cleveland Heights, and R. E. Price, Cleveland, assignors to The Harshaw Chemical Company, Elyria, Ohio. Optical bodies composed of silver chloride and silver sulfide and making same. 2,420,956; May 20.
- Kremers, Roland E., Summit, N. J., assignor to General Foods Corporation, New York, N. Y. Recovering alkaloids. 2,416,484; Feb. 25.
- Kremers, Roland E., Summit, assignor to General Foods Corporation, Hoboken, N. J. Treating cashew nut shell liquid. 2,431,127; Nov. 18.
- Kremiller, Arthur E., Glendale, Calif., assignor to Adel Precision Products Corp. Compensator-accumulator unit for hydraulic systems. 2,417,256; Mar. 11.
- Kremiller, Arthur E., Glendale, Calif., assignor to Adel Precision Products Corp. Multiple station control. 2,426,695; Sept. 2.
- Kreps, Saul I.: *See*—  
Leum, Leonard N., Macuga, and Kreps.
- Kress, Bernard H., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Making a solid dimer of alpha-methyl para-methyl styrene. 2,433,372; Dec. 30.
- Kretschmer, Herbert E., assignor, by mesne assignments, to British Insulated Callender's Cables Limited, London, England. Manufacture of vulcanized rubber articles. 2,421,625; June 3.
- Kreupeling, Johannes J.: *See*—  
Van der Willigen, Paul C., Kreupeling and de Jong.
- Kreuzer, Barton, Philadelphia, Pa., assignor to Radio Corporation of America. Reverberation method and system. 2,421,424; June 3.
- Kreyer, Helen E., executrix: *See*—  
Kreyer, John G.
- Kreyer, John G., deceased, by H. E. Kreyer, executrix, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Tractor tire. 2,415,290; Feb. 4.
- Kreyer, John G., deceased, by H. E. Kreyer, executrix, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Mold for tractor tires. 2,415,291; Feb. 4.
- Kridler, Phillip W., Detroit, Mich. Roofing clip. 2,418,076; Mar. 25.
- Kriebel, Robert H., Schenectady, N. Y., and W. I. Denton, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Making phenol. 2,415,101; Feb. 4.
- Kriebel, Vernon K., Hartford, Conn., and R. H. Smellie, Oak Ridge, Tenn. Process for dehydrating carboxylic acids. 2,425,542; Aug. 12.
- Kriegel, Bernard: *See*—  
Anderson, George M., and Kriegel.
- Krieger, Alvin W.: *See*—  
Koenig, Martin F., and Krieger.
- Krieger, Stuart A.: *See*—  
Ashkenas, Irving L., and Krieger.
- Krilow, James E., Atlantic City, N. J. Combined vegetable slicer and slitter. 2,415,747; Feb. 11.
- Krim, Norman B., Newton Highlands, assignor, by mesne assignments, to Raytheon Manufacturing Company, Newton, Mass. Protective device for tube envelopes. 2,424,990; Aug. 5.
- Krim, Norman B., Newton Highlands, assignor, by mesne assignments, to Raytheon Manufacturing Company, Newton, Mass. Apparatus for applying reinforcing members to electron discharge tubes. 2,433,373; Dec. 30.
- Krim-Ko Corporation, assignee: *See*—  
Siehrs, Arthur E.
- Kristal, Robert M.: *See*—  
Kreitner, Johann, and Kristal.
- Kroen, August F.: *See*—  
Davis, Harry A., and Kroen.
- Kroepel, Herman C.: *See*—  
Rivard, Lawrence B., and Kroepel.
- Krogel, Christopher J., Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Making fiber insulated wire. 2,416,394; Feb. 25.
- Krogel, Christopher J., Cranford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand marking apparatus. 2,428,284; Sept. 30.
- Kroger Grocery & Baking Company, The, assignee: *See*—  
Hockman, Robert O., and Reiman.
- Krogh, Charlotte S., Compton, Calif. Baby tender. 2,423,392; July 1.
- Kroll, Nathan J.: *See*—  
Kroll, Samuel and N. J.
- Kroll, Samuel and N. J., Chicago, Ill. Collapsible baby carriage. 2,431,259; Nov. 18.
- Kroll, William J., Albany, Oreg., and F. E. Bacon, Niagara Falls, N. Y., assignors to Electro Metallurgical Company. Treating material containing columbium and tantalum. 2,427,360; Sept. 16.
- Krone, Howard C., River Edge, and W. Meyer, East Orange, assignors to Wheaton Brass Works, Newark, N. J. Quick hose coupling. 2,413,978; Jan. 7.
- Kronenberg, Max, and H. Ernst, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Thermally controlled machine tool. 2,430,127; Nov. 4.
- Kronmiller, Charles W., Fort Wayne, Ind., assignor to General Electric Company. Combined transformer and reactor. 2,425,622; Aug. 12.
- Kronoff, Clarence R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp beam lifting mechanism for looms. 2,424,400; July 22.
- Kronoff, Clarence R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electric switch controlling mechanism. 2,433,225; Dec. 23.
- Kronoff, Clarence R., and A. J. Herard, Jr., assignors to Crompton & Knowles Loom Works, Worcester, Mass. Cloth roll control mechanism for looms. 2,420,178; May 6.
- Kronwall, Konstantin, Winetka, Ill., assignor to United Drill & Tool Corporation. Method and apparatus for point-grinding drills. 2,424,470; July 22.
- Kropa, Edward L., Fairfield, Conn., assignor to American Cyanamid Company, New York, N. Y. Polymerization of acrylates, methacrylates alone or in mixtures, and products thereof. 2,425,191; Aug. 5.
- Kropa, Edward L., Fairfield, Conn., assignor to American Cyanamid Company, New York, N. Y. Polymerization of vinyl acetate alone or in mixtures and products thereof. 2,425,192; Aug. 5.
- Kropp, Einar, assignor to The Standard Oil Company, Cleveland, Ohio. Catalytic reaction apparatus. 2,433,670; Dec. 30.
- Kropp Forge Aviation Co., assignee: *See*—  
Helstrom, Arthur W.
- Kropp Forge Company, assignee: *See*—  
Kropp, Roy A.
- Kropp, Roy A., River Forest, assignor to Kropp Forge Company, Cicero, Ill. Tread plate. 2,422,023; June 10.
- Krotz, Alvin S., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Cushioned connection. 2,430,573; Nov. 11.
- Krueger, Adolph F., Omaha, Nebr. Sanding machine. 2,426,028; Aug. 19.
- Krueger, Frank W., Atherton, assignor to Food Machinery Corporation, San Jose, Calif. Cap feeder. 2,417,938; Mar. 25.
- Krueger, Fred G., Norwood, Ohio. Solderless terminal lug for electrical conductors. 2,426,831; Sept. 2.
- Krueger, Max, Newark, N. J. Toothbrush with adjustable brush head. 2,427,411; Sept. 16.
- Krueger, Reinhold, Kewaunee, Wis. Oar reversing device. 2,415,432; Feb. 11.
- Krug, Richard S., assignor to Carthage Mills, Inc., Cincinnati, Ohio. Label or the like with captive coupon. 2,420,045; May 6.
- Kruitbosch, Harold R., assignor to The Electroloy Company, Incorporated, Bridgeport, Conn. Welding electrode holder. 2,429,825; Oct. 28.
- Kruihof, Jacob: *See*—  
Simon, Stephane, Kruihof, and den Hertog.
- Krukonis, Alexander C., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Control for electric weft detectors. 2,433,128; Dec. 23.
- Krupp, Carroll P., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Expandible impact container provided with yieldable retaining means. 2,423,940; July 15.
- Krupp, Carroll P., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Inflatable suit. 2,433,768; Dec. 30.
- Kruschke, Gustav H., Camp Douglas, Wis. Electric fuel heater for internal-combustion engines. 2,433,374; Dec. 30.
- Kruse, Orlin O., Oak Park, Ill., assignor to American Can Company, New York, N. Y. Drying oven. 2,432,525; Dec. 16.
- Kruse, Peter, New York, N. Y. Apparatus for ejecting from blanks being fed to can body making machines and the like, double-fed and over-thick blanks. 2,426,887; Sept. 2.
- Kubice, John A., Cicero, Ill., assignor, to Jack Dorman, Brooklyn, N. Y. Expansion bracelet. 2,433,766; Dec. 30.
- Kubitz, Arnold A., Toledo, Ohio. Portable elevating conveyor. 2,415,013; Jan. 28.
- Kucera, Frank, Lincoln, Nebr. Engine. 2,429,725; Oct. 28.
- Kuchar, Joseph, Chicago, Ill., assignor to The Athey Products, Corporation. Track wheel. 2,425,698; Aug. 12.
- Kucher, Andrew A., Grosse Points Farms, assignor to Bendix Aviation Corporation, Detroit, Mich. Pump and distributor mechanism. 2,418,412; Apr. 1.
- Kucki, John, Cicero, assignor to Harry Morris Associates, Chicago, Ill. Integral latch for sliding pivoted closure. 2,415,357; Feb. 4.
- Kuehl, Carl A.: *See*—  
Heath, Sheldon A., and Kuehl.
- Kuehn, Homer W., and F. G. Wheeler, assignors to Armour and Company, Chicago, Ill. Device for deep fat frying. 2,425,699; Aug. 12.
- Kuehni, Hans P., Schenectady, N. Y., assignor to General Electric Company. Torque measurements. 2,421,626; June 3.



- Kuehni, Hans P., Schenectady, N. Y., assignor to General Electric Company. Optical transparent film thickness gauge. 2,429,066; Oct. 14.
- Kuenhold, Otto J., Sr., Shaker Heights, assignor to Monmouth Products Company, Cleveland, Ohio. Humidification. 2,427,359; Sept. 16.
- Kuenhold, Otto J., Sr., Shaker Heights, Ohio, assignor to Monmouth Products Company. Humidifying system water feed device. 2,427,530; Sept. 16.
- Kuenhold, Otto J., Sr., Shaker Heights, assignor to Monmouth Products Company, Cleveland, Ohio. Humidification system with air seal means. 2,427,531; Sept. 16.
- Kuenstler, Walter E., Cliffside Park, N. J. Casing for piezoelectric crystals. 2,416,876; Mar. 4.
- Kuenstler, Walter E., Cliffside Park, N. J. Crystal holder. 2,429,414; Oct. 21.
- Kuenstler, Walter E., Cliffside Park, N. J. Crystal holder. 2,429,826; Oct. 28.
- Kuentsel, Lester E., assignor to Wyandotte Chemicals Corporation, Wyandotte, Mich. Finish remover composition. 2,433,517; Dec. 30.
- Kuettel, John J.: *See*—  
Lawler, John M., and Kuettel.
- Kuettel, John J., assignor to Herzog Iron Works, Inc., St. Paul, Minn. Door construction. 2,433,767; Dec. 30.
- Kuever, Rudolph A., and L. M. Wheeler, assignors to The State of Iowa for the use and benefit of the State University of Iowa, Iowa City, Iowa. Bismuth compounds. 2,414,650; Jan. 21.
- Kufler, Roland L., Detroit, assignor of one-half to S. M. Renfrew, Hazel Park, Mich. Back-off machine. 2,426,458; Aug. 26.
- Kufler, Roland L., Detroit, and S. M. Renfrew, Hazel Park, Mich. Stacking device. 2,424,761; July 29.
- Kugel, Fritz: *See*—  
Karl, Lorenz, and Kugel.
- Kugler, Robert E.: *See*—  
Palmer, Frederick, Kugler, and Bryans.
- Kuh, Erwin, New Brunswick, L. H. Dhein, Bound Brook, and R. H. Ebel, Martinsville, N. J., assignors to American Cyanamid Company, New York, N. Y. Purification of sulfonamide derivatives. 2,417,939; Mar. 25.
- Kuh, Erwin, New Brunswick, and T. W. Clapper, Martinsville, N. J., assignors to American Cyanamid Company, New York, N. Y. Production of 2-aminopyrimidine. 2,425,248; Aug. 5.
- Kuhl, Frank P., Bronx, N. Y., assignor to Keuffel & Esser Company, Hoboken, N. J. Lettering guide. 2,430,230; Nov. 4.
- Kuhl, Frederick A.: *See*—  
Boucher, Charles P., and Kuhl.
- Kuhlik, Hattie B., assignee: *See*—  
Kuhlik, Jacob M.
- Kuhlik, Jacob M., assignor to H. B. Kuhlik, Brooklyn, N. Y. Sound recording and reproducing machine. 2,417,651; Mar. 18.
- Kuhn, Carl S., Jr.: *See*—  
Abrams, Armand J., Baker, Kuhn, and Sharp.
- Kuhn, Carl S., Jr., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Alkylation process. 2,416,395; Feb. 25.
- Kuhn, Clarence W., Wauwatosa, and T. F. Rosing, Whitefish Bay, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Protective device. 2,425,623; Aug. 12.
- Kuhn, Edmund W., Cortland, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric motor controlling apparatus. 2,426,029; Aug. 19.
- Kuhn, George, Silver Spring, Md., assignor to General Motors Corporation, Dayton, Ohio. Washing and cleaning machine. 2,417,557; Mar. 18.
- Kuhn, Herbert M., Clifton, N. J., assignor to United States Rubber Company, New York, N. Y. Transmission and conveyor belt. 2,432,427; Dec. 9.
- Kuhn, Max O., Cuyahoga Falls, and J. P. Sedlak, Jr., assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Sealing closure. 2,415,031; Jan. 28.
- Kuhner, Max H., assignor to Riley Stoker Corporation, Worcester, Mass. Steam generator. 2,421,074; May 27.
- Kulhavy, Joseph T.: *See*—  
Wells, Frank W., and Kulhavy.
- Kulka, Thomas S., Cleveland, Ohio. Film protector. 2,425,100; Aug. 5.
- Kuller, Max M.: *See*—  
Krasnov, Joseph A., and Kuller.
- Kulling, Rudolph C., Chicago, Ill. Toothbrush holder. 2,414,379; Jan. 14.
- Kulp, Maurice P.: *See*—  
Detwiler, George P., Kulp, Moss, and Merion.
- Kump, Henry, Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Door operating and locking device. 2,428,571; Oct. 7.
- Kunen, Herbert K.: *See*—  
Kurth, Franz J., Honerkamp, and Kunen.
- Kunkel, Paul W., Portland, Oreg. Forming sockets for artificial limbs. 2,424,278; July 22.
- Kuntz, Elmer A., Milwaukee, Wis. Sectional grate. 2,425,101; Aug. 5.
- Kuntz, Ralph J., Columbus, Ohio. Compressor. 2,425,813; Aug. 19.
- Kunz, John, assignor to Miller Printing Machinery Co., Pittsburgh, Pa. Inker and inking method. 2,414,818; Jan. 28.
- Künzi, Karl: *See*—  
Mynssen, Jacob Willem, Ehrsam, and Künzi.
- Kunzler, William S., Greensburg, assignor to Robertshaw Thermostat Company, Youngwood, Pa. Snap-action device. 2,417,652; Mar. 18.
- Kunzog, Theodore W.: *See*—  
Reinsch, Earl W., De Bra, and Kunzog.
- Kurfiss, Selby H., Kansas City, Mo. Floating airplane field. 2,430,178; Nov. 4.
- Kurkjian, Yervant H., Clifton, N. J. Detachable supporting means for pessaries. 2,432,768; Dec. 16.
- Kurkjian, Yervant H., Clifton, N. J. Pessary clamping means. 2,432,769; Dec. 16.
- Kurkjian, Yervant H., Clifton, N. J. Lateral grip pessary suspension means. 2,432,770; Dec. 16.
- Kuriand, Leonard, East Chicago, assignor to The Hays Corporation, Michigan City, Ind. Absorbing oxygen. 2,421,568; June 3.
- Kurth, Franz J., and F. Honerkamp, assignors to Anemostat Corporation of America, New York, N. Y. Air mixing and diffusing outlet having a concentric open ended tube for mixing room air with the incoming ventilating air stream. 2,418,266; Apr. 1.
- Kurth, Franz J., F. Honerkamp, and H. K. Kunen, assignors to Anemostat Corporation of America, New York, N. Y. Air distributing duct, including damper means. 2,423,241; July 1.
- Kurzbis, Karl, Berkeley, Calif. Fish dressing apparatus. 2,433,460; Dec. 30.
- Kurtz, Allen W., Springfield, Ohio, assignor to the United States of America as represented by the Secretary of War. Manipulatable servicing support. 2,417,422; Mar. 18.
- Kurtz, Jacob, Teaneck, N. J., J. Waldie, New York, N. Y., and J. Spina, Cliffside Park, assignors to Callite Tungsten Corporation, Union City, N. J. Fluorescent gaseous discharge lamp system and thermal starting switch. 2,423,031; June 24.
- Kurtzner, Hugo A.: *See*—  
Weissberger, Arnold, and Kurtzner.
- Kushner, Samuel, Montvale, N. J., and L. Brancane, Pearl River, assignors by mesne assignments, to American Cyanamid Company, New York, N. Y. Guanidine derivatives and preparing the same. 2,425,376; Aug. 12.
- Kuslich, John S., St. Paul, Minn. Artificial fish bait or lure. 2,416,834; Mar. 4.
- Kuttner, Julius, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Oscillating pump impeller. 2,433,461; Dec. 30.
- Kuzelka, William R., New York, N. Y. Carbureting and fuel supply means for motor-driven vehicles. 2,419,956; May 6.
- Kvalheim, Ananias A., Petaluma, Calif. Work-started feed mechanism for planers. 2,425,944; Aug. 19.
- Kvalnes, Hamline M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of paper. 2,422,423; June 17.
- Kwash, John L., Bitley, Mich. Chick feed container. 2,426,696; Sept. 2.
- Kwik-Mix Company, assignee: *See*—  
Jones, Daniel C.
- Kyle Corporation, assignee: *See*—  
Kyle, William D., Jr., and Schindler.  
Kyle, William D., Jr., and Van Ryan.  
Van Ryan, Anthony.  
Van Vleet, John M.
- Kyle, William D., Jr., Milwaukee, and C. Schindler, Wauwatosa, Wis., assignors to Kyle Corporation. Electromagnetic switch. 2,414,956; Jan. 28.
- Kyle, William D., Jr., Milwaukee, and A. Van Ryan, assignors to Kyle Corporation, South Milwaukee, Wis. Power fuse. 2,429,518; Oct. 21.
- Kylin, Henrik O.: *See*—  
Kylin, Oskar and H. O.
- Kylin, Oskar and H. O., and Valentino.
- Kylin, Oskar and H. O., and M. L. Valentino, Cleveland Heights, assignors to Bardons and Oliver, Inc., Cleveland, Ohio. Power indexing mechanism. 2,417,366; Mar. 11.
- Kylin, Oskar and H. O., Cleveland Heights, assignors to Bardons and Oliver, Inc., Cleveland, Ohio. Hydraulic brake mechanism and control therefor. 2,421,206; May 27.
- Kyrides, Lucas P., assignor to Monsanto Chemical Company, St. Louis, Mo. Substituted 4,4'-Diaminodiphenyl sulfones and making same. 2,413,833; Jan. 7.
- Kyrides, Lucas P., assignor to Monsanto Chemical Company, St. Louis, Mo. Substituted 4,4'-Diaminodiphenyl sulfones and making same. 2,413,834; Jan. 7.
- Kyrides, Lucas P., assignor to Monsanto Chemical Company, St. Louis, Mo. Substituted 4,4'-Diaminodiphenyl sulfones and making same. 2,413,835; Jan. 7.
- Kyrides, Lucas P., Webster Groves, and F. B. Zienty, assignors to Monsanto Chemical Company, St. Louis, Mo. 1,2-disubstituted-4,5-dihydroimidazoles. 2,418,077; Mar. 25.
- Kyrides, Lucas P., Webster Groves, and F. B. Zienty, assignors to Monsanto Chemical Company, St. Louis, Mo. Preparing gamma-valerolactone. 2,420,250; May 6.
- Kyrides, Lucas P., and F. B. Zienty, St. Louis, and R. W. Stephenson, Webster Groves, assignors to Monsanto Chemical Company, St. Louis, Mo. 2-amino-5-alkenyl-1,3,4-thiadiazoles and making the same. 2,420,434; May 13.



- La Belle, Jacques S., Los Angeles, Calif. Nurse's cap. 2,415,250; Feb. 4.
- Labhardt, Woldemar: *See*—  
Hungerbühler, August, and Labhardt.
- Labin, Edouard, Buenos Aires, Argentina, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Oscillating frequency detector. 2,426,030; Aug. 19.
- Labin, Edouard, Buenos Aires, Argentina, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Frequency modulation. 2,431,569; Nov. 25.
- Labin, Emile: *See*—  
Deloraine, Edmond M., and Labin.  
Deloraine, Edmond M., Labin, and Busignies.
- Labin, Emile, New York, N. Y., assignor to Federal Telephone and Radio Corporation. Transmitter system. 2,416,327; Feb. 25.
- Labin, Emile, New York, N. Y., assignor to Federal Telephone and Radio Corporation. Radio receiver. 2,416,328; Feb. 25.
- Labin, Emile, New York, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Filter system. 2,418,127; Apr. 1.
- Labin, Emile, New York, N. Y., assignor to Federal Telephone and Radio Corporation. Pulsed oscillator. 2,419,566; Apr. 29.
- Labin, Emile, New York, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Radio detection system. 2,419,567; Apr. 29.
- Labin, Emile, New York, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Transmission system. 2,419,568; Apr. 29.
- Labin, Emile, assignor to International Standard Electric Corporation, New York, N. Y. Direction indicating apparatus. 2,423,104; July 1.
- Labin, Emile, assignor to International Standard Electric Corporation, New York, N. Y. Electric wave amplifier. 2,431,333; Nov. 25.
- Labin, Emile, New York, and D. D. Grieg, Forest Hills, N. Y., assignors to Federal Telephone and Radio Corporation. Push-pull modulation system. 2,416,329; Feb. 25.
- Labin, Emile, New York, and D. D. Grieg, Forest Hills, assignors to Federal Telephone and Radio Corporation, New York, N. Y. Multi-channel receiving system. 2,416,330; Feb. 25.
- Labin, Emile, New York, N. Y., and E. M. Ostlund, Montclair, assignors to Federal Telephone and Radio Corporation, Newark, N. J. Impulse generator. 2,418,128; Apr. 1.
- Labin, Emile, New York, and D. D. Grieg, Forest Hills, N. Y., assignors to Federal Telephone and Radio Corporation, Newark, N. J. Radio receiver. 2,419,569; Apr. 29.
- Labin, Emile, New York, and D. D. Grieg, Forest Hills, N. Y., assignors to Federal Telephone and Radio Corporation, Newark, N. J. Receiver circuit. 2,419,570; Apr. 29.
- Labin, Emile, New York, and D. D. Grieg, Forest Hills, N. Y., assignors to Federal Telephone and Radio Corporation, Newark, N. J. Selective pulsing device. 2,419,571; Apr. 29.
- Labin, Emile, New York, and Donald D. Grieg, Forest Hills, assignors to Federal Telephone and Radio Corporation, New York, N. Y. Pulsed multiplex system employing different width and repetition frequencies for each channel. 2,425,066; Aug. 5.
- Labin, Emile, and A. G. Kandoian, New York, N. Y., assignors to Federal Telephone and Radio Corporation, Newark, N. J. Rotatable coupler. 2,426,226; Aug. 26.
- Labin, Emile, New York, and D. D. Grieg, Forest Hills, assignors to Federal Telephone and Radio Corporation, New York, N. Y. Pulse multiplex system. 2,428,118; Sept. 30.
- Labin, Emile, New York, and D. D. Grieg, Forest Hills, assignors to Federal Telephone and Radio Corporation, New York, N. Y. Multichannel pulse modulator system. 2,429,631; Oct. 28.
- La Bossiere, Edward: *See*—  
Le Grand, Jesse S., and La Bossiere.
- La Brecque, Theodore A., assignor to The Hilliard Corporation, Elmira, N. Y. Reclaiming apparatus. 2,425,377; Aug. 12.
- La Brecque, Theodore A., assignor to The Hilliard Corporation, Elmira, N. Y. Filter. 2,429,321; Oct. 21.
- La Cagnina, Elizabeth, assignee, et al.: *See*—  
La Cagnina, Orazio.
- La Cagnina, Orazio, St. Albans, N. Y., assignor to B. Castellana, E. La Cagnina, I. Villano, P. Castellana, and S. Dalessandro. Fire-resisting and moistureproof paint and making. 2,429,957; Oct. 28.
- Lacey, Harold T., and H. E. Millson, Plainfield, and F. H. Heiss, Martinsville, N. J., assignors to American Cyanamid Company, New York, N. Y. Chemiluminescent compositions. 2,420,286; May 6.
- Lacey, Harold T., Plainfield, and R. E. Brouillard, Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y. Sulfonated amino-phthalaldehydololimides. 2,430,231; Nov. 4.
- Lacey, Molan A., Oakland, Calif. Tire pressure indicator. 2,432,526; Dec. 16.
- Lacey, Sydney W. B., Nottingham, England. Straight-bar knitting machine. 2,416,527; Feb. 25.
- La Chapelle, Euclid I., Brockton, Mass. Insole for welt shoes. 2,423,712; July 8.
- Lachapelle, Henri, Montreal, Quebec, Canada. Envelope moistener. 2,418,035 Mar. 25.
- Lacivita, John M., Millville, N. J. Mobile conveyor for concrete. 2,430,937; Nov. 18.
- Lackow, Emil, Brooklyn, N. Y. Watch strap. 2,420,435; May 13.
- Lacourse, Raymond, Montreal, Quebec, Canada. Garment hanger. 2,423,782; July 8.
- La Crosse, Clifford G., Baltimore, Md. Rubberlike substances and compounding material. 2,421,627; June 3.
- La-Crosse Trailer Corporation, assignee: *See*—  
Townsend, Roy C.
- Lacy, Charles E.: *See*—  
Kihlgren, Theodore E., and Lacy.
- Lacy-Hulbert, Denis, Wiltshire, England. Article-controlled marking means. 2,425,249; Aug. 5.
- Lada, Edmond J., assignee, et al.: *See*—  
Harding, Lloyd E.
- Lada, E. J., assignee, et al.: *See*—  
Harding, Lloyd E.
- Ladd, Elbert C., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. N,N'-dibenzylidene-ethylene-diamine as arachnides. 2,417,985; Mar. 25.
- Ladd, Elbert C., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. Primaryaminoaryl mercaptans and di-(primaryaminoaryl) disulfides as fungicides. 2,429,095; Oct. 14.
- Ladd, Elbert C., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. Pyridine-2-thiol and 2,2'-dithiodipyrindine as fungicides. 2,429,096; Oct. 14.
- Ladd, Elbert C., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. N,N'-dithiodimorpholine as a fungicide. 2,429,097; Oct. 14.
- Ladd, Elbert C., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. 1-phenyl-2-piperonylidene-hydrazine as a fungicide. 2,429,098; Oct. 14.
- Ladd, Elbert C., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. Benzoquinone monooxime semicarbazone as a fungicide. 2,429,099; Oct. 14.
- Ladd, Elbert C., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. N-nitroso-N-arylarylamines as insecticides. 2,430,721; Nov. 11.
- Ladd, Elbert C., and M. P. Harvey, Passaic, N. J., assignors to United States Rubber Company, New York, N. Y. Derivatives of chlorinated quinones as fungicides. 2,430,722; Nov. 11.
- Lade, Frederick L., and W. T. Irwin, Vancouver, British Columbia, Canada. Clothes line tightener. 2,425,476; Aug. 12.
- Ladenburg, Kurt, Princeton, R. Babson, Elizabeth, and M. Tishler, assignors to Merck & Co., Inc., Rahway, N. J. Tetraacetyl ribonic acid and its preparation. 2,429,937; Oct. 28.
- Ladendorf, Albert R. and R. J., Chicago, Ill. Drier and forming device. 2,426,936; Sept. 2.
- Ladendorf, Roy J.: *See*—  
Ladendorf, Albert R. and R. J.
- Ladon, Aaron A.: *See*—  
Boehm, Robert M., and Ladon.
- Laesser, Emil, assignor to Maag-Zahnräder und-Maschinen Aktiengesellschaft, Zurich, Switzerland. Gear planing machine. 2,432,020; Dec. 2.
- La Faille, Harvey: *See*—  
Rothchild, Irving, and La Faille.
- Lafferty, James M., Colonie, N. Y., assignor to General Electric Company. Ultra high frequency electric discharge device. 2,421,273; May 27.
- Lafferty, James M., Colonie, N. Y., assignor to General Electric Company. Ultra high frequency oscillator of the cavity resonator type. 2,423,327; July 1.
- Laffoon, Carthrae M., Jr., Irwin, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Application of solid lubricant coatings to surfaces. 2,420,886; May 20.
- Laford, Herbert M., Bloomfield, assignor to Electro-Protective Corporation, Newark, N. J. Electrical protective alarm system. 2,419,957; May 6.
- La Forge, Frederick B., Arlington, Va., assignor to United States of America as represented by the Secretary of Agriculture. Insecticide. 2,421,570; June 3.
- La Forge, Frederick B., Arlington, Va., and W. F. Barthel, College Park, Md., assignors to United States of America as represented by the Secretary of Agriculture. Insecticide. 2,421,569; June 3.
- Laforge, Pierre C. N., Paris, France. Apparatus for pressing fruit. 2,433,815; Dec. 30.
- La Forlyes, Frank, Rockford, Ill. Hair drier with air recirculating means. 2,420,251; May 6.
- La France, Donald S.: *See*—  
Hearne, George W., and La France.
- La France, Henry, Rumford, Maine. Wedge for tool handles. 2,423,893; July 15.
- La Gier, Honorine M., Los Angeles, Calif. Infant feeding bib assembly. 2,431,052; Nov. 18.
- Lagin, Herbert, New York, N. Y. Electric light socket. 2,427,464; Sept. 16.
- Laging, Werner E. F., Dayton, Ohio. Auxiliary electrical generating and control system. 2,427,678; Sept. 23.
- La Grua, Frank, Stonington, Conn. Collapsible container and making the same. 2,431,697; Dec. 2.



- La Guardia, Louis E., New York, N. Y. Automatic cleaning means for filters. 2,422,735; June 24.
- Lahey, Richard W., New Rochelle, assignor, by mesne assignments, to American Cyanamid Company, New York, N. Y. Multiwall container. 2,432,968; Dec. 16.
- Laico, Joseph P., Springfield, N. J., and V. L. Ronci, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,419,572; Apr. 29.
- Laidig, Alfred H.: *See*—  
Greenbowe, James W., Laidig, and Kelly.
- Laiho, Jalmer M., Skokie, assignor to Felt & Tarrant Manufacturing Company, Chicago, Ill. Calculating machine. 2,430,574; Nov. 11.
- Laiho, Jalmer M., Skokie, assignor to Felt & Tarrant Manufacturing Company, Chicago, Ill. Key-responsive calculating machine. 2,430,575; Nov. 11.
- Laing, Gordon F., Delavan, Wis., assignor to The George W. Borg Corporation, Chicago, Ill. Variable speed mechanism. 2,422,306; June 17.
- Lair, Julien J. E., Paris, France, assignor to International Standard Electric Corporation, New York, N. Y. Printing telegraph system utilizing variably spaced impulses. 2,429,632; Oct. 28.
- Laird, Alfred W., Oak Park, and G. J. Maxson, Western Springs, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for manufacturing nitrogen. 2,417,558; Mar. 18.
- Laird, Alton W., Adams, N. Y., assignor to The New York Air Brake Company, Sander. 2,418,587; Apr. 8.
- Laird, Arthur G., Summit, and T. Slonczewski, Glenwood Landing, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic field detector. 2,426,622; Sept. 2.
- Laird, John A., assignor to Joseph Lucas Limited, Birmingham, England. Electric spark ignition system for internal-combustion engines. 2,433,462; Dec. 30.
- Laird, Wilbur G., Pleasantville, N. Y. Building concrete oil storage tanks. 2,414,310; Jan. 14.
- Laird, Wilbur G., Pleasantville, N. Y. Fluid storage apparatus. 2,424,471; July 22.
- Laird, Wilbur G., Pleasantville, N. Y. Stabilizing means for movable roofs. 2,426,031; Aug. 19.
- Laisne, Eugene W., Fresno, Calif. Metal working machine. 2,423,941; July 15.
- Lakatos, Emory, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Computer for ballistic interactions. 2,414,819; Jan. 28.
- Lakatos, Louis L., Bala Cynwyd, Pa., assignor to Radio Corporation of America. Indicator for radio pulse-echo systems. 2,414,537; Jan. 21.
- Lake, Burton G., and W. C. Eddy, U. S. Navy. Ultra high frequency communication system. 2,423,836; July 15.
- Lake, Clair D.: *See*—  
Daly, George F., and Lake.
- Lake, Clair D., Binghamton, and G. F. Daly, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Odograph. 2,421,628; June 3.
- Lake, George R., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Hydrocarbon separation by azeotropic distillation with trioxane. 2,432,771; Dec. 16.
- Lake, Ross A., Oak Park, assignor to Teletype Corporation, Chicago, Ill. Printing telegraph apparatus. 2,419,782; Apr. 29.
- Lake, Wilbur E., Fostoria, Mich. Device for killing rodents by electricity. 2,418,601; Mar. 18.
- Lake, William G., assignor to J. K. Smit & Sons of Canada Limited, Toronto, Ontario, Canada. Diamond drill. 2,419,901; Apr. 29.
- Lakeland, Henry, Frenchwood, Preston, England. Warp let-off motion of looms for weaving. 2,420,957; May 20.
- Lakeside Engineering Corporation, assignee: *See*—  
Montgomery, John A.
- Lakowitz, Frank: *See*—  
Flader, Fredric E., Lakowitz, and Steele.
- Lakso, Eino E.: *See*—  
Vogt, Clarence W., and Lakso.
- Lakso, Eino E., Fitchburg, Mass., assignor to C. W. Vogt, Norwalk, Conn. Process and apparatus for repair of tires. 2,421,097; May 27.
- Lakso, Eino E., Fitchburg, Mass., assignor to C. W. Vogt, Norwalk, Conn. Apparatus for the repair of tires. 2,421,100; May 27.
- Lakso, Eino E., Fitchburg, Mass., assignor to C. W. Vogt, Norwalk, Conn. Apparatus and method for repair of tires. 2,421,101; May 27.
- Lakso, Eino E., and A. S. Chandler, Fitchburg, Mass., assignors to C. W. Vogt, Norwalk, Conn. Repair of tires. 2,421,102; May 27.
- Lalande, Marc A.: *See*—  
Katchatouroff, Leon, and Lalande.
- La Lande, William A., Jr.: *See*—  
Heinemann, Heinz, and La Lande.
- Laliberte, Albert J., Naugatuck, assignor to Safety-Fuel Incorporated, West Cheshire, Conn. Burner construction for vaporizable liquid fuel. 2,422,686; June 24.
- Lallmang, Howard C., Eggertsville, N. Y. Garment. 2,416,930; Mar. 4.
- La Marquise Footwear, Inc., assignee: *See*—  
Schwartz, William.
- Lamb, Anthony H., Hillside, N. J. Illuminated mirror. 2,428,975; Oct. 14.
- Lamb, Anthony H., Hillside, N. J., assignor to Western Electrical Instrument Corporation, Newark, N. J. Encased electrical device. 2,425,250; Aug. 5.
- Lamb, Anthony H., Hillside, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J. Manufacturing photoelectric cells of the dry disk type. 2,433,566; Dec. 30.
- Lamb, Charles M., Jr., and H. M. Wyman, Jr., Flushing, N. Y., and V. E. Heywood, Worcester, assignors to United States Envelope Company, Springfield, Mass. Method of and apparatus for packaging of food products. 2,415,292; Feb. 4.
- Lamb, Clyde K., assignor to The Safety Scaffold Corporation, Cleveland, Ohio. Safety scaffold. 2,414,538; Jan. 21.
- Lamb Electric Company, The, assignee: *See*—  
Cole, James D.
- Lamb, Ernest P., Grosse Pointe, assignor to Chrysler Corporation, Highland Park, Mich. Power shaft coupling structure. 2,415,893; Feb. 18.
- Lamb, Ernest P., Grosse Pointe, assignor to Chrysler Corporation, Highland Park, Mich. Gun-carrying vehicle. 2,420,179; May 6.
- Lamb, Eugene J.: *See*—  
Furman, Frank J., and Lamb.
- Lamb, George E., Hoquiam, Wash. Block stacking and loading equipment. 2,413,979; Jan. 7.
- Lamb, James J., West Hartford, Conn., assignor to Remington Rand Inc., Buffalo, N. Y. Automatic iris control. 2,417,506; Mar. 18.
- Lamb, Wade, and C. W. Hood, Detroit, Mich. Holder for abrasive material. 2,430,060; Nov. 4.
- Lambach, Fritz, Tenafly, N. J. Knitting machine. 2,419,222; Apr. 22.
- Lambach, Fritz, Tenafly, N. J. Checking and controlling the operation of textile machines. 2,423,105; July 1.
- Lambach, Fritz, Tenafly, N. J. Cam and roller lubricating means for warp knitting machines. 2,425,744; Aug. 19.
- Lambach, Fritz, Tenafly, N. J. Warp knitting machine. 2,427,007; Sept. 9.
- Lambach, Fritz, Tenafly, N. J. Structure for suspending a guide bar from a bracket of a warp knitting machine. 2,428,030; Sept. 30.
- Lambach, Fritz, Tenafly, N. J. Take-up device for knitting machines. 2,429,230; Oct. 21.
- Lambach, Fritz, Tenafly, N. J. Warp guides for attachment to guide bars of warp knitting machines. 2,429,231; Oct. 21.
- Lambach, Fritz, Tenafly, N. J. Warp yarn feeding means for warp knitting machines. 2,430,022; Nov. 4.
- Lambach, Fritz, Tenafly, assignor to Robert Reiner Incorporated, Weehawken, N. J. Automatic clamping and cutting of yarn in a flat or full-fashioned knitting machine and an automatic mechanism for carrying out said method. 2,432,110; Dec. 9.
- Lamberson, Verne E., East Chicago, Ind. Card table. 2,418,514; Apr. 8.
- Lambert, Albert L., Narberth, and W. H. D'Ardenne, Jenkintown Manor, assignors to Heintz Manufacturing Company, Philadelphia, Pa. Rocket firing control mechanism. 2,421,893; June 10.
- Lambert Brake Corporation, The, assignee: *See*—  
Parrett, Dent.
- Lambert, Clare A., Los Angeles, Calif. Fourchette toe hosiery. 2,422,736; June 24.
- Lambert, Clarence, Smith Center, Kans. Hydraulic power scoop. 2,423,894; July 15.
- Lambert, Ernest E., Springfield, Mass., assignor to Patchogue-Plymouth Mills Corporation, New York, N. Y. Woven fibre rug. 2,418,215; Apr. 1.
- Lambert, Francis: *See*—  
Trautvetter, George, and Lambert.
- Lambert, George W., Union, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Electrical contact element and making same. 2,431,334; Nov. 25.
- Lambert, Harry L., Enfield, assignor to Allen Wales Adding Machine Corporation, Ithaca, N. Y. Duplex calculating machine. 2,422,103; June 10.
- Lambert, Harry L., Enfield, assignor to Allen Wales Adding Machine Corporation, Ithaca, N. Y. Calculating machine. 2,428,084; Sept. 30.
- Lambertsen, Christian J., and L. Godfrey, U. S. Army. Hood for oxygen therapy. 2,418,473; Apr. 8.
- Lamberty, Frederick R., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Communication system. 2,419,953; May 6.
- La Mer, Victor K., assignee: *See*—  
Hochberg, Seymour.
- Lamina Dies and Tools, Inc., assignee: *See*—  
Henkel, Ferdinand J.
- Lamm, Uno, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Indicating or regulating the temperature of furnaces or the like. 2,429,827; Oct. 28.
- La Mont, Charles T., Milwaukee, Wis. Stopper valve for fluid containers. 2,419,840; Apr. 29.
- Lamparelli, Albert: *See*—  
Scharf, Louis, and Lamparelli.
- Lampe, Arthur J., assignor to Sprayo-Flake Company, Chicago, Ill. Spray gun and spraying. 2,433,463; Dec. 30.



- Lampe, Robert C., Stamford, Conn., assignor to Electrolux Corporation, New York, N. Y. Duplex suction nozzle with cover actuated valve. 2,432,670; Dec. 16.
- Lampel, Walter, and R. Hörndlein, Furth, Germany; vested in the Attorney General of the United States. Gun perforator for oil well casings. 2,419,841; Apr. 29.
- Lamphere, Richard: *See*—  
Berkey, William E., and Lamphere.
- Lamphier, Wilbur C., Hillsdale, N. J. Electrical steam generating device. 2,430,347; Nov. 4.
- Lampton, Glen T.: *See*—  
Martin, Erle, Lampton, and Vincent.
- Lampton, Glen T., West Hartford, Conn., H. L. Vasbinder, White Plains, N. Y., and T. A. Dissel, Hartford, assignors to United Aircraft Corporation, East Hartford, Conn. Deicing composition. 2,416,103; Feb. 18.
- Lampton, Glen T., Hartford, Conn., and D. R. Woolf, Toledo, Ohio, assignors to Avco Manufacturing Corporation. Balancing propeller blades. 2,426,400; Aug. 26.
- Lamson Corporation, assignee: *See*—  
Knox, Samuel L. G.
- Lamson & Sessions Company, The, assignee: *See*—  
Davis, Frank B.
- Lamtex Equipment Corporation, assignee: *See*—  
Mackin, Reuel M.
- Lancaster, Forrest W., Raleigh, N. C. Mechanical equivalent of heat apparatus. 2,427,289; Sept. 9.
- Lancaster, John T., Newton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Heel rest fitting machine. 2,423,149; July 1.
- Lancaster, John T., Newton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Heel attaching machine. 2,430,061; Nov. 4.
- Lance, Ben W., Geneva, Ill. Micrometer lap and guide. 2,418,413; Apr. 1.
- Lanchester, Frank Wootton Wawen, England. Portable platform. 2,430,179; Nov. 4.
- Lanco Products Corporation, assignee: *See*—  
Landers, Manfred.  
Nelson, Bernard.
- Land, Chester B., Catonsville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Photo-fluorographic camera and control. 2,433,129; Dec. 23.
- Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Combined ticket strip and viewing visor. 2,416,528; Feb. 25.
- Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Optical interference sight for guns, cameras, or the like. 2,420,252; May 6.
- Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Optical interference sight for guns, cameras, or the like, including polarizers and a biaxial birefringent element. 2,420,253; May 6.
- Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Light-polarizing viewer for use in connection with stereoscopic pictures. 2,431,942; Dec. 2.
- Land, Edwin H., Cambridge, J. Mahler, Brookline, and W. H. Ryan, assignors to Polaroid Corporation, Cambridge, Mass. Composite plastic sheet comprising a molecularly oriented polyvinyl alcohol layer and manufacture. 2,423,503; July 8.
- Land, Edwin H., Cambridge, Mass., and D. P. Cooper, Jr., Hyde Park, N. Y., assignors to Polaroid Corporation, Cambridge, Mass. Forming light-polarizing images. 2,423,504; July 8.
- Land, Edwin H., Cambridge, J. R. Swanton, Jr., Newton, and J. W. Gibson, Allston, assignors to Polaroid Corporation, Cambridge, Mass. Press mechanism. 2,431,943; Dec. 2.
- Land, Harry A., and W. O. Bechman, Chicago, Ill., assignors to International Harvester Company. Bearing seal. 2,414,600; Jan. 21.
- Landau, Miles E., New York, N. Y. Liquid applicator. 2,419,959; May 6.
- Landau, Miles E., Brooklyn, N. Y. Liquid applicator. 2,425,251; Aug. 5.
- Landauer, Fred, Rockville Centre, N. Y. Electrode structure. 2,420,669; May 20.
- Landay, L. R., assignee: *See*—  
Dzurinda, Michael.
- Landen, William J., Lisbon, Ohio. Automatic shears. 2,426,459; Aug. 26.
- Lander, Roy S., and E. B. Ley, Dallas, Tex. Game. 2,433,769; Dec. 30.
- Landerholm, Axel E., Brooklyn, N. Y. Electrostatic machine. 2,415,640; Feb. 11.
- Landers, Frary & Clark, assignee: *See*—  
Kircher, Paul J.
- Landers, Manfred, assignor to Lanco Products Corporation, New York, N. Y. Ice cream manufacturing process and product thereof. 2,423,600; July 8.
- Landesberg, Nathan, assignor to Hydrex, Incorporated, New York, N. Y. Regulation of the flow of water through hydraulic turbines. 2,424,039; July 15.
- Landgraf, Alfred, Duisburg-Hamborn, and O. Roelen, Oberhausen-Holten, Germany; vested in the Alien Property Custodian. Preparation of pure oxygen containing derivatives of aliphatic hydrocarbons. 2,415,102; Feb. 4.
- Landgraf, George F., Cockeysville, assignor to Koppers Company, Inc., doing business as Bartlett Hayward Division, Baltimore, Md. Apparatus for carving propeller blades. 2,425,543; Aug. 12.
- Landgraf, Stephen V.: *See*—  
Hoover, Walter R., Paulsen, and Landgraf.
- Landis & Gyr, A. G., assignee: *See*—  
Hungerbühler, August, and Labhardt.  
Ogurkowski, Georges.  
Pudelko, Richard, Meier, and Zingg.  
Pudelko, Richard, and Widmer.  
Vannini, Philipp.
- Landis Machine Company, assignee: *See*—  
Hopkins, Cecil W.  
Hopkins, Cecil W., and Eigenbrode.  
Scrivenor, Arthur.  
Smith, Nevin B.
- Landis Tool Company, assignee: *See*—  
Balsiger, Harold E., and Boller.  
Price, Ralph E.
- Landmeier, Edwin W., Lakeside Park, Ky., assignor to The Wadsworth Electric Manufacturing Co., Inc., Covington, Ky. Circuit breaker. 2,416,266; Feb. 18.
- Landon, Marion E., administratrix: *See*—  
Landon, Walter S.
- Landon, Vernon D.: *See*—  
Carlson, Wendell L., and Landon.
- Landon, Vernon D., Princeton, N. J., assignor to Radio Corporation of America. Wide range variable frequency generator. 2,422,424; June 17.
- Landon, Vernon D., Princeton, N. J., assignor to Radio Corporation of America. Bridge stabilized oscillator. 2,423,505; July 8.
- Landon, Vernon D., Princeton, N. J., assignor to Radio Corporation of America. Wavemeter for centimeter waves. 2,423,506; July 8.
- Landon, Vernon D., Princeton, N. J., assignor to Radio Corporation of America. Attenuator for centimeter waves. 2,427,106; Sept. 9.
- Landon, Vernon D., Princeton, N. J., assignor to Radio Corporation of America. Centimeter wave apparatus. 2,427,107; Sept. 9.
- Landon, Vernon D., Princeton, N. J., assignor to Radio Corporation of America. Pulse-echo altimeter. 2,428,424; Oct. 7.
- Landon, Walter S., deceased, Detroit, Mich.; M. E. Landon, administratrix. Expandable chamber motor with fluid actuated pilot controlled distributing valve. 2,431,570; Nov. 25.
- Landon, Walter S., Detroit, Mich., assignor to Detroit Lubricator Company. Automatic orifice cleaning device. 2,416,267; Feb. 18.
- Landon, Walter S., assignor to Detroit Lubricator Company, Detroit, Mich. Flow control means. 2,427,059; Sept. 9.
- Landreth, William L., Tucson, Ariz. Irrigator. 2,420,958; May 20.
- Landroche, Henry A., Spencer, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Sewing machine. 2,424,991; Aug. 5.
- Landrum, Joel L., Clovis, N. Mex. Fluid transmission mechanism. 2,416,396; Feb. 25.
- Lane, Albert E., Wenonah, N. J., assignor to Radio Corporation of America. Tuning magnetostrictive elements. 2,422,425; June 17.
- Lane, Albert E., Wenonah, N. J., assignor to Radio Corporation of America. Sheet severing means. 2,427,611; Sept. 16.
- Lane, Edwin R., Bexley, Ohio. Dispensing casing with valve operating means for a cartridge with a dispensing valve. 2,418,036; Mar. 25.
- Lane, Kingdon, New York, N. Y. Audible timer. 2,420,887; May 20.
- Lane, Leslie C., Jr.: *See*—  
Paden, Joseph H., and Lane.
- Lane, Mills B., Jr., assignee: *See*—  
Davis, Willa H.
- Lane-Wells Company, assignee: *See*—  
Fassin, Gustave.  
Spencer, Lloyd.  
Zschokke, Arthur J.
- LANESE, Donald C., Scarsdale, N. Y. Combined drink mixer and dispenser. 2,420,959; May 20.
- Lang, Albert G., Whitestone, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Carrier current signaling system. 2,430,471; Nov. 11.
- Lang, Edward H., assignor to The Pure Oil Company, Chicago, Ill. Production of motor fuel. 2,414,205; Jan. 14.
- Lang, Frederic A., Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Curing sheeted plastic material. 2,426,775; Sept. 2.
- Lang, George F., Jenkintown, Pa. Hosiery and making the same. 2,416,331; Feb. 25.
- Lang, Harry, St. Paul, Minn. Coveralls. 2,431,811; Dec. 2.
- Lang, Joseph C., assignor to Bocjl Corporation, Pittsburgh, Pa. Double ended staple. 2,417,423; Mar. 18.
- Lang, Joseph C., assignor to Bocjl Corporation, Pittsburgh, Pa. Collapsible fiberboard container. 2,423,942; July 15.
- Lang, Joseph C., assignor to Bocjl Corporation, Pittsburgh, Pa. Stapling method and apparatus. 2,431,812; Dec. 2.
- Lang, Karl A., Glenview, assignor to Lindberg Engineering Company, Chicago, Ill. Current control apparatus. 2,426,937; Sept. 2.
- Lang, Paul A., Elizabeth, N. J. Self-feeding soldering tool. 2,432,428; Dec. 9.



- Lang, Paul W., Hollywood, Calif., assignor of twenty per cent to S. R. Gordon, Sharon, Mass. Keyboard control system. 2,432,527; Dec. 16.
- Lang, Robert C.: *See*—  
Salter, Shirley C., Lang, and Cook.
- Lang, William, assignor to International Business Machines Corporation, New York, N. Y. Punching machine. 2,413,875; Jan. 7.
- Lang, William, assignor to International Business Machines Corporation, New York, N. Y. Relay tape adding and result checking machine. 2,424,100; July 15.
- Lang, Wilmarth Y., Towaco, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraph alarm system. 2,424,571; July 29.
- Langan, Thomas Annapolis, Md. Bilge pump. 2,414,046; Jan. 7.
- Langberg, Charles, assignor to Optronics Laboratories, Inc., New York, N. Y. Slide viewing instrument. 2,426,888; Sept. 2.
- Langdon, Jesse D., Brooklyn, N. Y. Apparatus for resurfacing rubber tires. 2,425,332; Aug. 12.
- Lange, Per G., Finspong, Sweden. Seal for radial flow turbines or compressors. 2,417,693; Mar. 18.
- Lange, Willy, Cincinnati, Ohio, and R. Livingston, Chicago, Ill., assignors to Ozark-Mahoning Company. Production of anhydrous fluorophosphoric acid. 2,423,895; July 15.
- Langer, Bernard F., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Torque measuring device. 2,431,260; Nov. 18.
- Langer, Bernard F., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Balancer. 2,432,907; Dec. 16.
- Langfelder, Otto, New York, N. Y. Single driven-shaft combined boring and reciprocable-saw machine. 2,417,170; Mar. 11.
- Langford, Cecil T., Peoria, Ill., D. H. McKellar, Rosita, Mexico, and H. T. Davidson, Ponca City, Okla. Method of and apparatus for analyzing gases and vapors absorbed in materials. 2,429,555; Oct. 21.
- Langford, Ernest E.: *See*—  
Garnett, Arthur T., and Langford.
- Langley, Ervin H., Shamrock, Tex. Hydraulic steering gear. 2,426,938; Sept. 2.
- Langmuir, Robert V., Schenectady, N. Y., assignor to Consolidated Engineering Corporation, Pasadena, Calif. Direct-current amplifier. 2,431,335; Nov. 25.
- Langos, Otto A., Chicago, Ill. Closing the ends of metal tubes. 2,421,629; June 3.
- Langsdorf, Harold H., Orlando, Fla. Wind guard for typewriters. 2,415,641; Feb. 11.
- Langsett, Victor M., assignee: *See*—  
Schulte, Bernard F.
- Langston, Samuel M., Co., assignee: *See*—  
Behrens, Herbert C.
- Langston, Waple: *See*—  
Chalfant, Charles A., and Langston.
- Langstroth, Hall, Hempstead, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Directive antenna structure. 2,415,103; Feb. 4.
- Languirand, William, New Bedford, Mass., assignor to Textile Research Co. Shuttle box binder for looms. 2,420,994; May 20.
- Lanier Aircraft Corporation, assignee: *See*—  
Lanier, Edward M.
- Lanier, Edward M., Newark, N. J., assignor to Lanier Aircraft Corporation, Bristol, Pa. Airplane wing lift modification. 2,430,431; Nov. 4.
- Lankelma, Herman P.: *See*—  
Musselman, John M., and Lankelma.
- Lankheet, Sander, Lansing, Mich. Boring bar. 2,426,359; Aug. 26.
- Lankton, Joel F., Peoria, Ill. Portable utility building core unit. 2,419,319; Apr. 22.
- Landman, Guy R., El Reno, Okla. Amusement device. 2,415,639; Feb. 11.
- Lanter, Clarence W., Du Page County, Ill., assignor to Birtman Electric Company. Disintegrator screen. 2,420,670; May 20.
- Lanter, Clarence W., Bartlett, assignor to Breuer Electric Mfg. Company, Chicago, Ill. Hair drier. 2,428,630; Oct. 7.
- Lantieri, Frank, New York, N. Y. Spray head fastening device. 2,414,047; Jan. 7.
- Lanz, Adolf, Wettingen-Damsau, assignor to Baumwoll-Spinnerei & Weberei Wettingen, Wettingen, Switzerland. Production of weaving effects by variable warp tensioning means. 2,417,204; Mar. 11.
- Lapeyre, Fernand S.: *See*—  
Lapeyre, Martial O. and F. S.
- Lapeyre, Fernand S., New Orleans, and James M. Lapeyre, III, Houma, La. Shrimp peeler. 2,429,828; Oct. 28.
- Lapeyre, James M., III: *See*—  
Lapeyre, Fernand S. and J. M.
- Lapeyre, Martial O., Mobile, Ala., and F. S. Lapeyre, assignors to The Valet Corporation, New Orleans, La. Man's valet. 2,415,642; Feb. 11.
- La Plant-Choate Manufacturing Co., Inc., assignee: *See*—  
Hyler, Lozell L.  
Rockwell, Harvey W.
- La Plant-Choate Manufacturing Company, Incorporated, assignee: *See*—  
Austin, Ellsworth W.
- La Plante, Clarence A., assignor to Clark Grave Vault Company, Columbus, Ohio. Work-supporting apparatus for welding machines. 2,433,464; Dec. 30.
- La Pointe, Albert A., West Hartford, assignor to La Pointe Engineering Company, Unionville, Conn. Grinding wheel dresser. 2,423,943; July 15.
- La Pointe Engineering Company, assignee: *See*—  
La Pointe, Albert A.
- La Pointe, Joseph W., Astoria, N. Y. Mechanical ash tray. 2,426,511; Aug. 26.
- Lapointe, Louis E., and L. J. Gaudet, Worcester, Mass., assignors to Elmer H. Brunmark. Connecting rod grinding jig. 2,430,062; Nov. 4.
- Lappin, Arthur N., Buffalo, and A. E. Bjerke, Snyder, N. Y., assignors to Curtiss-Wright Corporation. Retractable landing gear. 2,429,206; Oct. 21.
- Lapple, Charles E.: *See*—  
Chilton, Thomas H., and Lapple.
- Larchar, Arthur W.: *See*—  
Foster, Henry D., and Larchar.  
Hallowell, Alban T., Foster, and Larchar.
- Lardinois, Omer, Detroit, Mich. Inhaling device. 2,425,624; Aug. 12.
- Large, Charles B., Pasadena, M. J. Zucrow, Altadena, and R. L. Hirsch, Glendale, assignors to Aerojet Engineering Corporation, Azusa, Calif. Protective coatings. 2,426,512; Aug. 26.
- Large, Wayne V. K.: *See*—  
Bonorden, Allen R., Koos, Kreck, Large, and Marshall.
- Largen, William M., Roanoke, Va. Log hoisting and hauling cart. 2,428,085; Sept. 30.
- Lari, Ray V., San Francisco, Calif. Valved, slidable discharge tube. 2,424,101; July 15.
- Larimore, Harvey T., Congress Park, assignor to Kalva Venders, Inc., Chicago, Ill. Coin controlled mechanism. 2,417,205; Mar. 11.
- Larison Compensating Axle Corporation, assignee: *See*—  
Larison, Glenn L.
- Larison, Glenn L., La Grande, Oreg., assignor to Larison Compensating Axle Corporation. Vehicle drive. 2,415,596; Feb. 11.
- Larison, Glenn L., La Grande, Oreg., assignor to Larison Compensating Axle Corporation. Vehicle wheel suspension. 2,417,206; Mar. 11.
- Larison, Glenn L., La Grande, Oreg., assignor to Larison Compensating Axle Corporation. Vehicle suspension warning indicator control. 2,426,360; Aug. 26.
- Larivière, Joseph A., Ste. Henedine, Quebec, Canada. Mudguard for bicycles. 2,422,836; June 24.
- Larkin, Artemas M., assignor to The Ryan Aeronautical Co., San Diego, Calif. Ratchet means. 2,417,602; Mar. 18.
- Larkin, Walter, Norristown, assignor to Fidelity Machine Company, Inc., Philadelphia, Pa. Making and finishing stockings. 2,420,960; May 20.
- Larkin, Walter, Norristown, assignor, by mesne assignments, to Fidelity Machine Company, Inc., Philadelphia, Pa. Electronically controlled knitting machine. 2,422,568; June 17.
- Larmouth, General W.: *See*—  
Schopmeyer, Herman H., Hammerstein, and Larmouth.
- Larner, Herbert B., Glen Ridge, assignor to The M. W. Kellogg Company, Jersey City, N. J. Concentration of vitamin A carotenoids. 2,432,021; Dec. 2.
- La Roque Mfg. Co., Inc., The, assignee: *See*—  
La Roque, Samuel W.
- La Roque, Samuel W., assignor to The La Roque Mfg. Co., Inc., Pawtucket, R. I. Picker. 2,432,995; Dec. 23.
- Larrabure S., Mario, Lima, Peru. Swivel connector for electric cables, cords, or the like. 2,414,957; Jan. 28.
- Larsen, Agnew E., Jenkintown, Pa., assignor, by mesne assignments, to The Glenn L. Martin Company, Baltimore, Md. Helicopter with antitorque propeller. 2,420,784; May 20.
- Larsen, Christian C., Fort Wayne, Ind., assignor to Farnsworth Television & Radio Corporation. Electrode assembling in television projection tubes. 2,426,697; Sept. 2.
- Larsen Company, The, assignee: *See*—  
Winters, Russell H.
- Larsen, Delmar H., assignor to National Lead Company, Los Angeles, Calif. Well drilling fluid base material and process. 2,417,307; Mar. 11.
- Larsen, Delmar H., assignor to National Lead Company, Los Angeles, Calif. Oil detection in drilling muds. 2,431,487; Nov. 25.
- Larsen, Earl I.: *See*—  
Hensel, Franz R., and Larsen.
- Larsen, Elmer J., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for assembling articles. 2,426,623; Sept. 2.
- Larsen, Steiner A., assignee, et al.: *See*—  
Fisk, Edwin M.
- Larsen, Thorval, assignor to Phoenix Manufacturing Company, Joliet, Ill. Bending machine. 2,430,348; Nov. 4.
- Larson, Alfred T., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of polymers of ethylene. 2,414,311; Jan. 14.
- Larson, Alfred T., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of hydrogen. 2,425,625; Aug. 12.



- Larson, Alfred T., and D. J. Loder, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of ethyleneurea. 2,416,057; Feb. 18.
- Larson, Arthur G., Forest Hills, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Stabilizing device. 2,418,037; Mar. 25.
- Larson, Arthur G., Forest Hills, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Follow up pressure fluid servomotor. 2,418,129; Apr. 1.
- Larson, Arthur G., Forest Hills, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Stabilizer for pressure fluid servomotors. 2,431,759; Dec. 2.
- Larson, Arvid N., assignor, by mesne assignments, to Cread Engineering and Research Company, Cranston, R. I. Antifriction bearing retainer. 2,417,559; Mar. 18.
- Larson, Carl H., Elkhart, Ind., assignor to The Adlake Company. Mercury switch relay. 2,417,763; Mar. 18.
- Larson, Carl H., Elkhart, Ind., assignor to The Adlake Company. Hermetically sealed container. 2,417,764; Mar. 18.
- Larson, Charles O., Sterling, Ill. Pipe hanger. 2,423,455; July 8.
- Larson, Charles O., Sterling, Ill. Folding sawhorse. 2,427,679; Sept. 23.
- Larson, Chris C., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Dissector tube. 2,422,244; June 17.
- Larson, Christian C., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Television color mixing system. 2,418,414; Apr. 1.
- Larson, Christian C., Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Electron beam deflection system. 2,431,488; Nov. 25.
- Larson, Christian C., Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Phototube multiplier. 2,433,700; Dec. 30.
- Larson, Edward J., Barronett, Wis. Car stop indicator. 2,414,820; Jan. 28.
- Larson, Gilbert C., Bayside, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. High-frequency tuning device. 2,413,836; Jan. 7.
- Larson, Gilbert C., Bayside, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Radiant-energy receiver. 2,425,102; Aug. 5.
- Larson, John D., Broken Bow, Nebr. Boat trailer. 2,425,252; Aug. 5.
- Larson, Karl R., assignor to The Paul Bunyan Bait Company, Minneapolis, Minn. Bracelet. 2,425,477; Aug. 12.
- Larson, Leonard: *See—*  
Janecek, Frank H., and Larson.
- Larson, Leonard, and B. T. Berge, McGill, Nev., assignors to Kennecott Copper Corporation, New York, N. Y. Apparatus for punching tuyeres of copper converters and the like. 2,432,996; Dec. 23.
- Larson, Raymond W., Gary, Ind., and C. J. Stalvey, Jacksonville, Fla. Fuel injector. 2,431,874; Dec. 2.
- Larsson, Ernst A., assignor to The Ohio Brass Company, Mansfield, Ohio. Automatic braking mechanism for vehicles. 2,417,694; Mar. 18.
- Larsson, Ernst A., assignor to The Ohio Brass Company, Mansfield, Ohio. Cushioned trolley pole head. 2,426,150; Aug. 19.
- Larus & Brother Company, Inc., assignee: *See—*  
Vaughan, Lucious.
- La Salle National Bank, assignee, trustee: *See—*  
Haug, Eugene H.
- Lasersohn, Martin, Greenburgh Township, Westchester County, N. Y., assignor to Sterling Drug Inc., Wilmington, Del. Cartridge-cylinder unit for hypodermic syringes. 2,431,406; Nov. 25.
- Lasher, Edward A., assignor to California Flaxseed Products Company, Los Angeles, Calif. Resinous material. 2,416,485; Feb. 25.
- Lasher, Edward A., assignor to California Flaxseed Products Company, Los Angeles, Calif. Resinous interesterification product made with hydroxylated fatty oil. 2,422,456; June 17.
- Lasky, Max, and B. S. Lee, New York, N. Y. Direct viewing motion picture apparatus. 2,432,200; Dec. 9.
- Lassen, Elvind O., Whitefish Bay, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Speed control for Ward Leonard systems. 2,433,130; Dec. 23.
- Lassiat, Raymond C.: *See—*  
Prickett, Thomas B., and Lassiat.
- Latchum, John W., Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treatment of hydrocarbons. 2,414,651; Jan. 21.
- Latchum, John W., Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company. Recovery of sulphur dioxide-free hydrochloric acid from aluminum chloride sludge. 2,416,011; Feb. 18.
- Latchum, John W., Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company. Removal of catalyst from reaction product. 2,426,832; Sept. 2.
- Latchum, John W., Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company. Recovery of ethane and gasoline from natural gas. 2,428,521; Oct. 7.
- Latchum, John W., Jr., Bartlesville, Okla., A. D. Pickett, Odessa, and G. B. Evans, Kingsville, Tex., assignors to Phillips Petroleum Company. Supported aluminum chloride catalyst. 2,429,232; Oct. 21.
- Latham, Allen, Jr., Jamaica Plain, assignor to Arthur D. Little, Inc., Cambridge, Mass. Compressor-motor apparatus. 2,422,789; June 24.
- Latham, Allen, Jr., Jamaica Plain, assignor to Arthur D. Little, Inc., Cambridge, Mass. Bearing. 2,427,730; Sept. 23.
- Latham, George H., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical modification of rubber. 2,417,424; Mar. 18.
- Lathrop, Carl M., Elizabeth, N. J., assignor to Standard Oil Development Company. Time delay feature for flame failure protective device. 2,429,131; Oct. 14.
- Lathrop, Donald C.: *See—*  
Crabbe, Lindsay T., and Lathrop.
- Lathrop, Elbert C.: *See—*  
Aronovsky, Samuel I., Talburt, and Lathrop.
- Lathrop, Frank L., Merrill, Oreg. Gravity liquid separator for potatoes. 2,426,398; Aug. 26.
- Lathrop, Harry D., assignor to The Lathrop-Paulson Company, Chicago, Ill. Pivoted means for directing drying gas into the interior of hollow articles. 2,416,759; Mar. 4.
- Lathrop-Hoge Construction Co., assignee: *See—*  
Zimmerman, Robert F.
- Lathrop-Paulson Company, The, assignee: *See—*  
Lathrop, Harry D.  
Paulson, Walter H.  
Schwarzkopf, Vergil.
- Lathrope, Franklin C., Blue Island, assignor to Naylor Pipe Company, Chicago, Ill. Nesting pipe. 2,423,986; July 15.
- Latini, Leo, Chicago, Ill. Candy preforming machine. 2,431,489; Nov. 25.
- Laube, Grover, Los Angeles, and L. E. Belger, Inglewood, Calif. Film moving mechanism. 2,425,814; Aug. 19.
- Lauck, John A.: *See—*  
Roth, Jay M., and Lauck.
- Lauck, John A., South Euclid, Ohio, assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Balanced valve assembly. 2,423,393; July 1.
- Lauck, John A., South Euclid, and R. G. Holt, Euclid, Ohio, assignors, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Selector valve assembly. 2,431,944; Dec. 2.
- Lauer, Elma M., Hollywood, Calif. Pill dispenser. 2,431,490; Nov. 25.
- Lauer, Theodore M.: *See—*  
Pitre, Antonio S., Lauer, Maloof, and Rogers.
- Laufer, Louis, and D. R. Schwarz, assignors to Schwarz Laboratories, Inc., New York, N. Y. Extraction of purine nucleotides from biologic substances. 2,415,826; Feb. 18.
- Laufersweiler, William J., and R. E. Thompson, assignors to The Kinnear Manufacturing Company, Columbus, Ohio. Lateral guiding means for heavy door posts. 2,430,063; Nov. 4.
- Laughlin, Edwin R., Penns Grove, and J. L. Ayres, Salem, N. J., and P. J. Mitchell, Jr., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Weather resistant flameproof paper. 2,416,447; Feb. 25.
- Laughlin, Myron P., St. Petersburg, Fla. Aerial mine. 2,416,877; Mar. 4.
- Laughlin, William C., New York, N. Y. Apparatus and method for hydraulic concentration. 2,420,180; May 6.
- Lauman, Herman E., Garden City, N. Y. Apparatus for developing wells. 2,423,653; July 8.
- Lauretti, Goldie F., Carlisle, Pa. Golf club cover. 2,422,356; June 17.
- Laury, Napoleon A., Bound Brook, N. J., assignor to American Cyanamid Company, New York, N. Y. Preparation of alkali metal chlorosulfonates. 2,415,358; Feb. 4.
- Laussucq, Harry P. L., Reading, and B. Japikse, Reiffont, assignors to Birdsboro Steel Foundry and Machine Co., Birdsboro, Pa. Hydraulic power press control. 2,422,104; June 10.
- Lauve, Louis L.: *See—*  
Enkur, Edward M., Pahl, and Lauve.
- Lauver, Herbert L., and D. D. Ormsby, assignors to Clark Equipment Company, Buchanan, Mich. Auxiliary engine control system. 2,427,863; Sept. 23.
- Lauzon, Delor W., Lynn, Mass. Heel. 2,418,078; Mar. 25.
- Lave, Roy E., Homewood, assignor to Apex Railway Products Co., Chicago, Ill. Making metallic gratings. 2,423,896; July 15.
- Lavery, John N., Long Beach, Calif. Reversible gearing. 2,425,815; Aug. 19.
- Laviates, Abraham H., assignee: *See—*  
Laviates, Raymond P.
- Laviates, David P., assignee: *See—*  
Calhoun, Earl E.
- Laviates, David P., Brooklyn, N. Y. Smoker's pipe. 2,421,337; May 27.
- Laviates, David P., Brooklyn, N. Y. Smoker's pipe. 2,421,338; May 27.
- Laviates, Raymond P., assignor to A. H. Laviates, Shelton, Conn. Block plane. 2,423,713; July 8.
- Lavin, Max, Philadelphia, Pa. Shoulder pad. 2,424,662; July 29.
- La Vista, Edward G., New York, N. Y. Spectacles. 2,427,465; Sept. 16.



- Lavoie, Stephen D., Little Silver, assignor to Manufacturers Electronic Developments, Inc., Morganville, N. J. Wave meter. Re. 22,894; July 1.
- Lavoie, Stephen D., Little Silver, N. J., assignor to General Railway Signal Company, Rochester, N. Y. Combined tube socket and by-pass condenser unit. 2,427,563; Sept. 16.
- Law, Brett D., Merced, Calif. Boat propelling and steering unit. 2,415,183; Feb. 4.
- Law, Harold B., Princeton, N. J., assignor to Radio Corporation of America. Television transmitting tube with a concave secondary electron emitter. 2,414,881; Jan. 28.
- Law, Harry Y., Merced, Calif. Trussed track. 2,426,032; Aug. 19.
- Law, Russell R., Princeton Township, Mercer County, N. J., assignor to Radio Corporation of America. Image projection system. 2,415,211; Feb. 4.
- Lawe, Thomas: *See—*  
Sturrock, Murray G., and Lawe.
- Lawler, Frank P., Chicago, Ill., assignor of one-third to C. H. Grant, San Francisco, Calif., one-third to F. P. Lawler, Chicago, Ill., and one-third to P. J. Tyler, Oroville, Calif., jointly. Hoist. 2,418,267; Apr. 1.
- Lawler, Frank P., Chicago, Ill., assignor of one-third to C. H. Grant, San Francisco, Calif., one-third to F. P. Lawler, Chicago, Ill., and one-third to P. J. Tyler, Oroville, Calif. Overhead shovel. 2,423,193; July 1.
- Lawler, John C.: *See—*  
Wolthuis, Enno, and Lawler.
- Lawler, John M., and J. J. Kuettel, St. Paul, Minn. Bottle carrier. 2,431,813; Dec. 2.
- Lawler, Matthew M., Short Hills, and P. F. Bahler, Haworth, assignors to Worthington Pump and Machinery Corporation, Harrison, N. J. Fluid cooling apparatus. 2,416,760; Mar. 4.
- Lawlor, Reed C., Alhambra, assignor to Consolidated Engineering Corporation, Pasadena, Calif. Electrical measurement of changes of impedance. 2,419,573; Apr. 29.
- Lawrence, A. C., Leather Company, assignee: *See—*  
Griffin, Roger L., and Moore.
- Lawrence, Kirk S.: *See—*  
Mulholland, David E., Fast, and Lawrence.  
Mulholland, David E., and Lawrence.
- Lawrence, Leslie G., Newton Highlands, assignor to Raytheon Manufacturing Company, Newton, Mass. Lead-in connection for electron discharge tubes. 2,433,375; Dec. 30.
- Lawrence Manufacturing Company, assignee: *See—*  
Stevens, Brooks, Jr.
- Lawrence, Robert W.: *See—*  
Bitting, Charles D., and Lawrence.
- Lawrie, George C., Collingswood, N. J., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Balancing machine. 2,432,022; Dec. 2.
- Lawry, Richard T., Richmond, Calif. Rod holder. 2,427,466; Sept. 16.
- Lawshe, Walter D., and W. A. Gardiner, assignors, by mesne assignments, to Monsanto Chemical Company, Seattle, Wash. Tensile testing machine. 2,424,177; July 15.
- Lawson, Archibald, East Orange, N. J., and C. M. Young, Tampa, Fla. Apparatus for separating constituents of a liquid mixture which are of different specific gravities. 2,432,317; Dec. 9.
- Lawson, Dennis I., assignor to Pye Limited, Cambridge, England. Multichannel signaling system using delay line to obtain time division. 2,414,265; Jan. 14.
- Lawson, Dennis I., assignor to Pye Limited, Cambridge, England. Pulse modulation signalling system. 2,418,268; Apr. 1.
- Lawson, Elmer J.: *See—*  
Marker, Russell E., and Lawson.
- Lawson, Herbert E., Elgin, assignor, by mesne assignments, to Burgess Battery Company, Freeport, Ill. Deferred action dry cell with magnesium electrode. 2,428,850; Oct. 14.
- Lawson, John W., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Dustproof and moistureproof switch casing. 2,430,064; Nov. 4.
- Lawson, Lloyd, assignee, et al.: *See—*  
Boyer, Joseph.  
Rainsford, Thomas F.
- Lawson, Robert H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for operating upon shoes. 2,418,891; Apr. 15.
- Lawson, Robert H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Method of and machine for turning the platform covers of platform shoes. 2,422,737; June 24.
- Lawson, Robert H., assignor to Scott & Williams, Incorporated, Laconia, N. H. Dial holding mechanism for knitting machines. 2,428,230; Sept. 30.
- Lawson, Robert H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for inserting fastenings. 2,430,515; Nov. 11.
- Lawson, Robert H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for use in the manufacture of shoes. 2,430,880; Nov. 18.
- Lawson, Robert H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe lasting machine. 2,432,165; Dec. 9.
- Lawson, Robert R.: *See—*  
Ensign, George G., Lawson, Schaefer, and Wochos.
- Lawson, Walter E.: *See—*  
Davis, Clyde O., Lawson, and Ver Bryck.  
Holmes, Harrison H., and Lawson.
- Lawton, Elliot J.: *See—*  
Kingdon, Kenneth H., and Lawton.
- Lawton, Elliott J., Schenectady, N. Y., assignor to General Electric Company. Dispenser type cathode electric discharge device. 2,416,661; Feb. 25.
- Lawton, Joseph B., Bartlesville, Okla., assignor of one-half to S. N. Van Wert, Dallas, Tex. Planetary piston pump. 2,423,507; July 8.
- Lawton, Maxwell, and P. Rosenberg, assignors to Howard Industries, Inc., Buffalo, N. Y. Automatic divergent sorting and gauging screw roller. 2,425,478; Aug. 12.
- Layng, Edwin T., assignor to The Polymerization Process Corporation, Jersey City, N. J. Conversion of hydrocarbons. 2,414,206; Jan. 14.
- Layng, Edwin T., assignor to The M. W. Kellogg Company, Jersey City, N. J. Cyclizing hydrocarbons. 2,423,328; July 1.
- Lazare Kaplan & Sons, Inc., assignee: *See—*  
Barna, James J.
- Lazarus, Hetty S., New York, N. Y. Hat. 2,428,937; Oct. 14.
- Lazier, Wilbur A.: *See—*  
Farlow, Mark W., and Lazier.
- Lazier, Wilbur A., Wilmington, A. A. Pavlic, Claymont, and W. J. Peppel, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Carboxylic acids vicinally substituted with two mercapto groups. 2,422,246; June 17.
- Lea Fabrics, Inc., assignee: *See—*  
Buffington, Malcolm R., and Jegge.
- Lea, Walter A., assignor to Frank H. Newton, Los Angeles, Calif. Vibration isolator. 2,428,285; Sept. 30.
- Leach, David G., assignor to Brookville Glove Company, Brookville, Pa. Power drive for glove turners. 2,426,698; Sept. 2.
- Leach, Earl G., Wellington, Kans. Signal flag for railway trains or the like. 2,417,367; Mar. 11.
- Leach, John M., Port Washington, N. Y. Amusement device. 2,422,913; June 24.
- Leach, John M., Port Washington, N. Y. Confection tongue depressor. 2,425,945; Aug. 19.
- Leach, Lloyd Lyn, Swarthmore, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Containers of polyvinyl acetals. 2,430,065; Nov. 4.
- Leader, Sidney A., assignor to Portland Plastics Limited, London, England. Dental flask. 2,420,545; May 13.
- Leake, James M., Monroe, Mich. Making track guides. 2,415,212; Feb. 4.
- Leake, James M., Monroe, Mich. Engine rocker arm. 2,415,213; Feb. 4.
- Leake, Joseph E., Fall River, Mass. Bobbin holder. 2,418,079; Mar. 25.
- Lean, Owen B., Windsor, and P. W. Brian, Wokingham, England, assignors to Imperial Chemical Industries Limited. Immunizing of seed from pest attack. 2,417,115; Mar. 11.
- Lear, Incorporated, assignee: *See—*  
Geren, Philip.  
Lear, William P.  
Nygaard, Herman.  
Schall, William R., Jr., and Van Dermark.  
Summers, Thomas O. Jr.
- Lear, William P., North Hollywood, Calif., assignor by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Electrical contactor system. 2,421,947; June 10.
- Lear, William P., North Hollywood, Calif., assignor by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Dual radio direction finder. 2,421,948; June 10.
- Lear, William P., North Hollywood, Calif., assignor by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Centrifugal brake and clutch unit. 2,421,949; June 10.
- Lear, William P., North Hollywood, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Magnetic recorder. 2,424,697; July 29.
- Lear, William P., North Hollywood, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Safety switch device. 2,425,038; Aug. 5.
- Lear, William P., North Hollywood, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Preselection control device. 2,427,792; Sept. 23.
- Lear, William P., North Hollywood, Calif., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Telemetric indicating system. 2,432,772; Dec. 16.
- Learned, Francis M.: *See—*  
Wilson, Myron S., and Learned.
- Leatherman, Martin, Hyattsville, Md. Fire-resistant coating composition. 2,418,843; Apr. 15.
- Leathers, Chester F.: *See—*  
Johnson, Fred H., and Leathers.
- Leavitt, Floyd H., Burlingame, assignor to Shell Development Company, San Francisco, Calif. Soil treating process. 2,415,251; Feb. 4.
- Leavitt Machine Company, The, assignee: *See—*  
Wilcox, Philip E.
- Lebanon Steel Foundry, assignee: *See—*  
Sullivan, William B., and Juppenlatz.



- Le Beau, R  e V., Cambridge, Mass., assignor, by mesne assignments, to Midwest Rubber Reclaiming Company, East St. Louis, Ill. Reclaiming synthetic rubber with an amine. 2,423,032; June 24.
- Le Beau, R  e V., Cambridge, Mass., assignor, by mesne assignments, to Midwest Rubber Reclaiming Company, East St. Louis, Ill. Reclaiming synthetic rubbers with a fatty acid and live steam. 2,423,033; June 24.
- Lebedeff, Yurii E., Metuchen, N. J., assignor to American Smelting and Refining Company, New York, N. Y. Process of recovering indium. 2,433,770; Dec. 30.
- Lebherz, Harry J., Frederick, Md., and L. A. Skinner, Washington, D. C. Rocket fin assembly. 2,427,217; Sept. 9.
- Le Blanc, Edward V., Arlington, Mass. Garter. 2,425,479; Aug. 12.
- Le Blanc, Emile J.: *See*—  
Appel, Harry A., and Le Blanc.
- Leblanc, Rolland A., Rochester, N. Y. Forming or bending die assembly for presses. 2,433,226; Dec. 23.
- Le Blond, R. K., Machine Tool Co., The, assignee: *See*—  
Groene, William F.
- Lebold, Samuel N., assignor to Morris Paper Mills, Chicago, Ill. Handle accessory for containers. 2,419,842; Apr. 29.
- Lecher, Hans Z., Plainfield, and M. Scalera and W. S. Forster, Sommerville, N. J., assignors to American Cyanamid Company, New York, N. Y. Ring closure of polynuclear quinones with tetrachlorides or tetrabromides of titanium or zirconium. 2,416,931; Mar. 4.
- Lecher, Hans Z., Plainfield, and M. L. Kesler, Middlesex, N. J., assignors to American Cyanamid Company, New York, N. Y. Preparation of aryldialkylolamines. 2,432,023; Dec. 2.
- Lechthaler, Charles H., and J. W. Payne, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Cleaning of contact masses by gaseous suspension and delivery thereof to a downwardly moving bed. 2,421,840; June 10.
- Lechthaler, Charles H., Woodbury, and R. Lee, Mantua, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Apparatus for handling contact masses. 2,423,813; July 8.
- Leck, George W., Princeton Junction, N. J., assignor to Radio Corporation of America. Orienting mechanism for pulse echo systems. 2,419,999; May 6.
- Leck, George W., Princeton Junction, N. J., assignor to Radio Corporation of America. Wave guide switching device. 2,423,508; July 8.
- Lecky, Herbert S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification of methionine. 2,432,429; Dec. 9.
- Lecky, Herbert S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Synthesis of methionine. 2,432,478; Dec. 9.
- Le Clair, Camille C. S., Acton, London, England. Lubricant circulating system incorporating filtering means. 2,415,700; Aug. 12.
- Le Clair, Camille C. S., Acton, London, England. Oil or other liquid filter or cleaner. 2,418,777; Apr. 8.
- Le Clair, Camille C. S., Acton, London, England. Apparatus for detecting and indicating and/or measuring ice formation on vehicles. 2,419,454; Apr. 22.
- Le Clair, Camille C. S., London, England. Oil filtration. 2,423,329; July 1.
- Le Clair, Camille C. S., London, England. Pipe joint or connector. 2,426,739; Sept. 2.
- Le Clair, Camille C. S., Acton, London, England. High-pressure lubricating apparatus. 2,432,969; Dec. 16.
- Le Claire, Eugene J., assignor to Harry F. Joesting, St. Paul, Minn. Boiler system with cooking chamber. 2,427,564; Sept. 16.
- Ledbetter, John N., Jr., assignee: *See*—  
Hanson, Dagfrid.  
Hanson, Veb.
- Lederman, George E.: *See*—  
Barmache, Michel, and Lederman.
- Ledin, Charles, Stamford, Conn., and J. P. Andrew, New Rochelle, N. Y. Removable cylinder. 2,418,080; Mar. 25.
- Ledingham, George A.: *See*—  
Neish, Arthur C., Ledingham, and Blackwood.
- Le Du, Wendell A., Grass Valley, Calif. Excavator and loader. 2,415,597; Feb. 11.
- Leduc, Marc F.: *See*—  
Pye, David J., and Leduc.
- Ledwinka, Joseph: *See*—  
Ragsdale, Earl J. W., and Ledwinka.
- Ledwinka, Joseph, assignor to The Budd Company, Philadelphia, Pa. Railway truck frame. 2,425,282; Aug. 5.
- Ledwith, Walter A.: *See*—  
Cronstedt, Val., and Ledwith.  
Kalitinsky, Andrew, and Ledwith.
- Ledwith, Walter A., Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Turbine for aircraft. 2,415,104; Feb. 4.
- Ledwith, Walter A., Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Piston cooling in free-piston units. 2,425,544; Aug. 12.
- Ledwith, Walter A., Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Throttle for free-piston units. 2,426,311; Aug. 26.
- Lee, Abe, Utica, N. Y. Starting device for internal-combustion engines. 2,425,946; Aug. 19.
- Lee, Arthur L., Upper Arlington, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Hydraulic brake mechanism. 2,429,163; Oct. 14.
- Lee, Bernard S.: *See*—  
Lasky, Max, and Lee.
- Lee, Charles M., assignor to Eastman Kodak Company, Rochester, N. Y. Focusing lens mount. 2,432,479; Dec. 9.
- Lee, Edward W.: *See*—  
Hart, John A. H., and Lee.
- Lee, Ernest D., West Englewood, N. J., assignor to Interchemical Corporation, New York, N. Y. Printing ink. 2,415,827; Feb. 18.
- Lee, Ernest D., West Englewood, N. J., assignor to Interchemical Corporation, New York, N. Y. Printing ink. 2,415,828; Feb. 18.
- Lee Foundation for Nutritional Research, assignee: *See*—  
Lee, Royal.
- Lee, Frank H., Company, The, assignee: *See*—  
Sacks, John E.
- Lee, George E., Kansas City, Mo. Film cartridge for moving picture cameras. 2,423,562; July 8.
- Lee, Harley, Knox, and W. H. Sours, Muncie, Ind. Telephone position changing instrument. 2,414,110; Jan. 14.
- Lee, Henry H., Bartlesville, Okla., assignor to Phillips Petroleum Company. Removal of hydrogen halide from a gaseous effluent of an isomerization process. 2,428,883; Oct. 14.
- Lee, James C., Birmingham, Ala. Bottle carrier. 2,420,603; May 13.
- Lee, Jess, Max, Los Angeles, Calif. Furnace truck. 2,421,894; June 10.
- Lee, John G., Farmington, assignor to United Aircraft Corporation, East Hartford, Conn. Airplane arresting hook. 2,419,455; Apr. 22.
- Lee, John G., Farmington, assignor to United Aircraft Corporation, East Hartford, Conn. Tailless airplane arresting hook. 2,419,456; Apr. 22.
- Lee, Katherine L., and D. Bense, Los Angeles, Calif. Toilet kit. 2,431,491; Nov. 25.
- Lee, Kenneth M., East Moline, and M. F. Lindsey, Moline, assignors to American Machine and Metals, Inc., East Moline, Ill. Loading mechanism for testing machines. 2,416,012; Feb. 18.
- Lee, Le Fever M., assignor to Fedders-Quigan Corporation, Buffalo, N. Y. Bonding heat exchange cores. 2,414,312; Jan. 14.
- Lee, Leighton II, Meriden, assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn. Device for measuring the ratio between two variables. 2,423,394; July 1.
- Lee, Leighton, II, Meriden, assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn. Fuel supply system. 2,427,793; Sept. 23.
- Lee, Leighton, II, Meriden, assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn. Control apparatus. 2,427,794; Sept. 23.
- Lee, Leighton, II, Middletown, assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn. Signal or control apparatus. 2,429,322; Oct. 22.
- Lee, Milton W., Palos Verdes Estates, assignor to Union Oil Company of California, Los Angeles, Calif. Desulfurization and hydroforming. 2,417,308; Mar. 11.
- Lee, Norman, Red Bank, N. J., assignor to the United States of America, as represented by the Secretary of War. Antenna mast base. 2,427,008; Sept. 9.
- Lee, Richard K., York, Pa., assignor to The McKay Company. Coated welding electrode. 2,432,773; Dec. 16.
- Lee, Robert J., La Marque, and H. D. Radford, Texas City, Tex., assignors to Pan American Refining Corporation, New York, N. Y. Conversion of hydrocarbons. 2,416,184; Feb. 18.
- Lee, Royal, assignor to Lee Foundation for Nutritional Research, Milwaukee, Wis. Making a phosphoric acid composition. 2,424,992; Aug. 5.
- Lee, Russell: *See*—  
Lechthaler, Charles H., and Lee.  
Petry, Theodor A., Lee, Biles, and Betts.  
Ray, Frederick E., Lee, and Meadow.
- Lee, Russell, and H. D. Noll, Wenonah, and V. A. Kalichevsky, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Method of coking oils. 2,422,790; June 24.
- Lee, William M., Kaneohe, Hawaii. Machine for making grommets. 2,422,200; June 17.
- Lee, William T., Norfolk, Va. Pasteurizer. 2,427,146; Sept. 9.
- Lee Wilson Engineering Company, Inc., assignee: *See*—  
Armstrong, Harry H.
- Leebow, Mortimer, Lawrence, N. Y. Shoulder pad. 2,421,895; June 10.
- Leech, Herbert C., White Plains, N. Y., assignor to J. R. Wehr, Roxbury, Vt. Animated illustration. 2,432,318; Dec. 9.
- Leeds and Northrup Company, assignee: *See*—  
Bristol, Edward S.  
Davis, Elwood T.  
Dern, Frank E., Jr., and Williams.  
Perley, George A., and Godshalk.  
Phillips, William E.  
Williams, Albert J., Jr., Tarpley, and Johnson.  
Williams, Albert J., Jr., and Tatman.  
Yetter, Edward W.



- Leeds, Thomas F.: *See*—  
Boucher, Herman G., and Leeds.
- Leeds, Winthrop M., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Fluid blast circuit interrupter. 2,416,185; Feb. 18.
- Leeds, Winthrop M., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,420,889; May 20.
- Leeds, Winthrop M., Wilkensburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,416,186; Feb. 18.
- Leeds, Winthrop M., Wilkensburg, assignor to Westinghouse Electric Corporation, Pittsburgh, Pa. Oil circuit interrupter. 2,420,888; May 20.
- Leeds, Winthrop M., Wilkensburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,422,569; June 17.
- Leef, George H., Milwaukee, Wis. Conveying system and conveyor therefor. 2,433,131; Dec. 23.
- Leef, John H., Minneapolis, Minn. Rotary drum clothes washing machine. 2,414,154; Jan. 14.
- Leef, John H., Minneapolis, Minn. Clothes washing machine having tumbler end wall drain. 2,428,286; Sept. 30.
- Leek, George H., Leamington Spa, and R. H. Rose, Wolverhampton, England. Valve mechanism of fluid-pressure engines. 2,421,510; June 3.
- Leek, Thomas G., New York, N. Y., assignor to Edgar Brothers Company, Metuchen, N. J. Coating web surfaces. 2,414,313; Jan. 14.
- Leekley, Robert M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Calendered sheet comprising the reaction product of a polyvinyl acetal and an alcohol-modified urea-formaldehyde resin and making same. 2,432,242; Dec. 9.
- Leese, Edward F., Everett, Wash. Coin dispenser. 2,416,486; Feb. 25.
- Leeson, Meldon G., assignor to York Corporation, York, Pa. Defrosting refrigerating apparatus. 2,430,938; Nov. 18.
- Lefebvre, Edward A., Jamaica, assignor of forty-five per cent to E. H. Lefebvre, Springfield Garden, forty-five per cent to S. H. George, Bellerose, and ten per cent to F. J. Orzel, Regent Park, N. Y. Outlet box coupling. 2,425,545; Aug. 12.
- Lefebvre, Edward H., assignee, et al.: *See*—  
Lefebvre, Edward A.
- Lefebvre, Lucien, Timmins, Ontario, Canada. Glass cutter. 2,430,349; Nov. 4.
- Leffel, James, & Co., The, assignee: *See*—  
Biggs, George A.
- Leffer, Frederick W., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Endothermic catalytic conversion of hydrocarbons. 2,422,791; June 24.
- Leffingwell, Loy: *See*—  
Sanders, Elmore J., and Leffingwell.
- Lefl, William, New York, N. Y. Shoulder pad. 2,431,616; Nov. 25.
- Leffer, James L., North Hollywood, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Hydraulic press. 2,413,876; Jan. 7.
- Lefren, Edward K., Kingston, N. Y., assignor to Hercules Powder Company, Wilmington, Del. Electric blasting cap. 2,428,884; Oct. 14.
- Lefustec, Fernand, Paris, France. Flying top. 2,432,774; Dec. 16.
- Legat, Robert C., New Britain, assignor to The G. E. Prentice Mfg. Co., Kensington, Conn. Slide operated fastener. 2,415,643; Feb. 11.
- Legat, Robert C., New Britain, assignor to The G. E. Prentice Mfg. Co., Kensington, Conn. Slider for separable fasteners. 2,421,511; June 3.
- Legat, Robert C., New Britain, assignor to The G. E. Prentice Mfg. Co., Kensington, Conn. Slider for fasteners. 2,421,791; June 10.
- Leger, Henry, New York, N. Y. Knife or dagger. 2,421,339; May 27.
- Leger, Rodolph F.: *See*—  
Elmore, Elbert E., and Leger.
- Legg, David A.: *See*—  
Beesch, Samuel C., and Legg.
- Legg, David A., Philadelphia, Pa., assignor to Publicker Industries, Inc. Fermenting sugars by mixed yeasts. 2,419,960; May 6.
- Le Gloahec, Victor C. E., Rockland, Maine, assignor to Algin Corporation of America, New York, N. Y. Proteinous compound and the manufacture thereof. 2,430,180; Nov. 4.
- Le Gore, Tinus, and L. T. Kilfoy, Chicago, Ill. Plucking instrument. 2,431,180; Nov. 18.
- Le Grand, Jesse S., Nutley, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Dial remote control system. 2,433,376; Dec. 30.
- Le Grand, Jesse S., and E. La Bossiere, assignors to Federal Telephone and Radio Corporation, New York, N. Y. Frequency discriminator circuits. 2,433,377; Dec. 30.
- Le Gros, Horatio, assignee: *See*—  
Severson, Iver W.
- Lehde, Henry, assignor to S. Shesky, Brooklyn, and P. Le Rudich, New York, N. Y. Garment trimming machine. 2,422,914; June 24.
- Lehigh Spinning Company, assignee: *See*—  
Thomas, Samuel E., and Guthrie.
- Lehman, Edward H., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber. 2,418,778; Apr. 8.
- Lehman, Edward H., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorbing mechanism. 2,421,075; May 27.
- Lehman, Eugene W., assignee: *See*—  
Pritchard, Charles A. G.
- Lehman, Leo E.: *See*—  
Lehman, Tillie and L. E.
- Lehman, Nathan, Brooklyn, assignor to William Heller, Inc., New York, N. Y. Lady's dress. 2,429,188; Oct. 14.
- Lehman, Stanley, Madison, Wis. Pressure drop alarm. 2,417,940; Mar. 25.
- Lehman, Sylvester C., Jersey City, N. J. Container for distribution of food and other products. 2,416,332; Feb. 25.
- Lehman, Tillie and L. E., Chicago, Ill. Combination cap and scarf. 2,420,378; May 13.
- Lehmann, Aldo S.: *See*—  
Kraus, Charles A., Lehmann, Morris, and Witschonke.
- Lehmann, Emma E., Rochester, N. Y. Needle threader. 2,419,495; Apr. 22.
- Lehmann, Gerard J.: *See*—  
Deloraine, Edmond M., and Lehmann.
- Lehmann, Gerard J., assignor to International Standard Electric Corporation, New York, N. Y. Precise measurement of time intervals. 2,416,333; Feb. 25.
- Lehmann, Gerard J., assignor to International Standard Electric Corporation, New York, N. Y. Impulse generating system. 2,419,574; Apr. 29.
- Lehmann, Gerard J., Boulogne-Billancourt, France, assignor to International Standard Electric Corporation, New York, N. Y. Electron discharge tube amplifier. 2,423,106; July 1.
- Lehmberg, William H.: *See*—  
Lovell, Stanley P., and Lehmberg.
- Lehmberg, William H., Dudley, assignor to American Optical Company, Southbridge, Mass. Goggles. 2,430,881; Nov. 18.
- Lehr, Irving, New York, N. Y. Man's brief. 2,431,571; Nov. 25.
- Lehr, Paul E., Bakersfield, assignor to Shell Development Company, San Francisco, Calif. Well control system. 2,425,193; Aug. 5.
- Lehrer, William, assignor to Surface Combustion Corporation, Toledo, Ohio. Cooling apparatus for heat-treated work using air jets. 2,422,105; June 10.
- Lehrman, Leo A., assignor to American Steel Foundries, Chicago, Ill. Truck. 2,422,201; June 17.
- Lehrman, Leo A., and F. E. Bachman, assignors to American Steel Foundries, Chicago, Ill. Spring group. 2,427,864; Sept. 23.
- Leibbrook, Walton V.: *See*—  
Fasold, George A., and Leibbrook.
- Leich Electric Co., assignee: *See*—  
Boswau, Hans P.
- Leidy, Orris H., Grosse Pointe, assignor to Michigan Chrome & Chemical Company, Detroit, Mich. Adhesive wrapping tape. 2,420,604; May 13.
- Leigh, Edward, Speke, Liverpool, England. Screw lamp extractor and replacer including broken lamp cap extractor. 2,429,884; Oct. 28.
- Leighton, John W., Port Huron, Mich. Adjustable threaded connection. 2,428,086; Sept. 30.
- Leighton, Robert B.: *See*—  
Anderson, Carl D., Leighton, Wilts, and Melzian.
- Leininger, Theodore L.: *See*—  
Huse, Herbert W., Faust, and Leininger.
- Leis, Arthur F., Dayton, Ohio. Variable delivery vane pump. 2,423,654; July 8.
- Leisy, Reuben W., Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y. Production of lead chromate. 2,430,939; Nov. 18.
- Leitch, Walter C., Springfield, and J. A. Logan, Hadley, assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Method and apparatus for handling airplanes for refueling. 2,421,512; June 3.
- Leiter, H. Herschel, assignee: *See*—  
Longfellow, Earl E.
- Leitzel, Raymond H.: *See*—  
Wilcox, Howard M., and Leitzel.
- Le Jeune, Henry E., Thibodaux, La. Machine for cutting corn from ears of corn. 2,428,522; Oct. 7.
- Leland, George H., Dayton, Ohio. Bomb release. 2,430,940; Nov. 18.
- Leland-Gifford Company, assignee: *See*—  
Bishop, Benjamin S. T., and Bicknell.
- Leland Stanford Junior University, The Board of Trustees of The, assignee: *See*—  
Hansen, William W.  
Hansen, William W., and Ginzton.  
Hansen, William W., and Varian.  
Varian, Russell H., and Hansen.
- Le Lande, Lester R., Pasadena, Tex. Glare shield. 2,416,761; Mar. 4.
- Lemire, Elmer A.: *See*—  
Sass, Otto, and Lemire.
- Le Mire, Warren C., Revere, Mass. Rabbit carrier. 2,430,403; Nov. 4.
- Lemmers, Eugene, Cleveland Heights, Ohio, assignor to General Electric Company. Circuit for electric discharge devices. 2,429,415; Oct. 21.



- Lemmon, Norman E., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Refining mineral oils. 2,416,397; Feb. 25.
- Lemon, Joseph R., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Power-transmitting device. 2,415,894; Feb. 18.
- Lemonier, Camille R.: *See*—  
Trimbach, Clem G., Luburg, and Lemonier.
- Lempco Products, Inc., assignee: *See*—  
Blazek, William J.
- Lendle, Carl R., Youngstown, Ohio, assignor to United States Hoffman Machinery Corporation, New York, N. Y. Garment sleeve steamer and stretcher. 2,423,509; July 8.
- Lendle, Carl R., Youngstown, Ohio, assignor to United States Hoffman Machinery Corporation, New York, N. Y. Garment steamer. 2,425,194; Aug. 5.
- Lenahan, Bernard E., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Distance type product responsive relay. 2,426,033; Aug. 19.
- Lengsfeld Brothers, Incorporated, assignee: *See*—  
Lengsfeld, Byron H.
- Lengsfeld, Byron H., assignor to Lengsfeld Brothers, Incorporated, New Orleans, La. Paper box. 2,417,653; Mar. 18.
- Lenk, Kurt H., assignor to Parker Manufacturing Company, Worcester, Mass. Saw frame. 2,432,626; Dec. 16.
- Lenke, George H., Elmhurst, assignor of one-half to J. J. Ohls, Oak Park, Ill. Skylight construction. 2,419,267; Apr. 22.
- Lenke, George H., Elmhurst, assignor of one-half to J. J. Ohls, Oak Park, Ill. Panel construction. 2,422,837; June 24.
- Lennon, Clarence D., Detroit, Mich. Rotating disc type aircraft. 2,432,775; Dec. 16.
- Lensky, Henry: *See*—  
Page, Brono, and Lensky.
- Lensner, Herbert W.: *See*—  
Goldsborough, Shirley L., and Lensner.
- Lensner, Herbert W., East Orange, and J. F. Chapman, Madison, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Carrier current protective system. 2,422,570; June 17.
- Lenthall, Robert, assignor to The Scholl Manufacturing Company, Limited, London, England. Collapsible or folding perambulator, cot, and other articles. 2,425,195; Aug. 5.
- Lentz, Jesse J., Statesville, N. C. Control for knitting machines. 2,422,738; June 24.
- Lentz, Leon, Jr., Springfield, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system for reducing wheel slippage. 2,428,574; Oct. 7.
- Lenzinger, Werner, Zurich, Switzerland. Phase calculating device. 2,420,751; May 20.
- Leo, Herbert T., and C. C. Taylor, Anaheim, Calif. Preparing pectin. 2,425,947; Aug. 19.
- Leonard, Aneel B., Phillips, Tex., assignor to Phillips Petroleum Company. Removal of hydrogen fluoride from water. 2,417,875; Mar. 25.
- Leonard, Aneel B., and G. R. Hettick, Phillips, Tex., assignors to Phillips Petroleum Company. Recovery of hydrogen fluoride from gases. 2,425,745; Aug. 19.
- Leonard, Byram, Eldorado, Ohio. Heater. 2,419,575; Apr. 29.
- Leonard, Henry K., Albany, N. Y., assignor to Toledo Scale Company, Toledo, Ohio. Charts for weighing scales. 2,420,639; May 13.
- Leonard Johanssons Fabriks Aktiebolag, assignee: *See*—  
Johansson, Carl O.
- Leonard, John E.: *See*—  
Bearse, Arthur E., and Leonard.
- Leonard, John T., Evanston, Ill. Lubricant measuring valve. 2,427,680; Sept. 23.
- Leonard, Laurence E., Trail, British Columbia, Canada, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Electrode clamp. 2,423,714; July 8.
- Leonard, Merrill G.: *See*—  
Putman, Henry V., and Leonard.
- Leonard, Merrill G., Sharon, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Relay. 2,417,765; Mar. 18.
- Leonard, Merrill G., Sharon, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Steering solenoid for torpedoes. 2,417,766; Mar. 18.
- Leonard, Merrill G., Sharon, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric switch. 2,417,767; Mar. 18.
- Leonard, Merrill G., Sharon, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control device. 2,417,768; Mar. 18.
- Leonard, Merrill G., Sharon, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Inertia responsive device. 2,426,034; Aug. 19.
- Leonard, Merrill G., Sharon, Pa., and J. A. Guidosh, Hubbard, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Joint ring. 2,417,769; Mar. 18.
- Leonard, Merrill G., Sharon, Pa., and J. A. Guidosh, Hubbard, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Handhole closure. 2,420,318; May 13.
- Leone, Anthony J., assignee: *See*—  
Therrien, Henri L.
- Leonhard, Lee W., and J. Q. Collin, deceased, by H. L. Austin, executor, assignors to Eastman Kodak Company, Rochester, N. Y. Method and apparatus for continuously applying a coating to a web and controlling the thickness of the same. 2,415,644; Feb. 11.
- Le Page, Wynn L.: *See*—  
Platt, Haviland H., and Le Page.
- Lepow, Edward, New York, assignor to Home Curtain Corporation, Far Rockaway, N. Y. Curtain top construction. 2,416,448; Feb. 25.
- Lepow, Edward, New York, assignor to Home Curtain Corporation, Far Rockaway, N. Y. Curtain construction. 2,419,407; Apr. 22.
- Lerche, Myron H., Hilbert, Wis. Detachable wing tip tank. 2,416,104; Feb. 18.
- Le Rol, Earl J., and J. H. Johnsen, Baton Rouge, La., assignors to Standard Oil Development Company. Contacting solids with gaseous fluids. 2,415,756; Feb. 11.
- Leroy, Louis, Chicago, and F. J. Wood, Riverside, assignors to Goodman Manufacturing Company, Chicago, Ill. Blocker and coil handling device. 2,417,001; Mar. 4.
- Lersch, Emil W., Pensacola, Fla. Wheel runner. 2,418,038; Mar. 25.
- Lersch, Emil W., Pensacola, Fla. Fire lighter. 2,429,829; Oct. 28.
- Lerstrup, Karl, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Fluid operated switch control. 2,430,128; Nov. 4.
- Le Rudich, Philip, assignee, et al.: *See*—  
Lehde, Henry.
- Le Sage, Aaron, Manteno, Ill. Thermometer shaker. 2,426,776; Sept. 2.
- Leavoy, Ely, assignor, by mesne assignments, to Lisle Inc., Allentown, Pa. Garment. 2,414,048; Jan. 7.
- Leschen, A., & Sons Rope Company, assignee: *See*—  
Mitchell, Irvin R.
- Leschin, Samuel, assignor to International Vending Machine Corporation, New York, N. Y. Dispensing unit. 2,428,231; Sept. 30.
- Leser, Wayne, South Ozone Park, N. Y. Welder's mask. 2,418,415; Apr. 1.
- Leshner, Carl E., Ben Avon Heights Borough, assignor to Pittsburgh Coal Carbonization Company, Pittsburgh, Pa. Low temperature carbonization process and product. 2,429,416; Oct. 21.
- Leslie, John H., II, Winnetka, assignor to Stewart-Warner Corporation, Chicago, Ill. Electric switch. 2,419,685; Apr. 29.
- Leslie, John H., II, Winnetka, assignor to Stewart-Warner Corporation, Chicago, Ill. Aircraft hot-air heater with air speed responsive fuel supply. 2,429,101; Oct. 14.
- Lesnick, Robert N., Camden, and L. E. Matson, Jr., Collingswood, N. J., assignors to Radio Corporation of America. Differential servo system. 2,418,306; Apr. 1.
- Leparré, Jean N., and R. E. Carlson, assignors to Armour and Company, Chicago, Ill. Sausage covering and forming the same. 2,428,495; Oct. 7.
- Less, Joseph W., Clinton, Iowa. Collar attachment. 2,420,752; May 20.
- Less, Joseph W., Sacramento, Calif. Collar attachment. 2,431,053; Nov. 18.
- Lesser, L., & Co., assignee: *See*—  
Lesser, Lawrence.
- Lesser, Lawrence, New Rochelle, N. Y., assignor to L. Lesser & Co. Protective covering. 2,425,701; Aug. 12.
- Lessler, Lew W., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Photographic printer. 2,420,141; May 6.
- Lessler, Lew W., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Detachable densitometer arm comprising combined hinging and biasing means. 2,427,795; Sept. 23.
- Lessler, Lew W., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Photographic printer. 2,428,333; Sept. 30.
- Lester Engineering Company, assignee: *See*—  
Lester, Nathan.  
Lester, Thomas J.
- Lester, Henry M., New York, assignor to Grafex, Inc., Rochester, N. Y. High intensity illumination for high speed motion-picture photography. 2,427,969; Sept. 23.
- Lester, Nathan, Cleveland Heights, assignor to Lester Engineering Company, Cleveland, Ohio. Injection molding machine spreader. 2,428,315; Sept. 30.
- Lester, Nathan, Cleveland Heights, assignor to Lester Engineering Company, Cleveland, Ohio. Injection molding control apparatus. 2,433,132; Dec. 23.
- Lester, Thomas J., Shaker Heights, assignor to Lester Engineering Company, Cleveland, Ohio. Variable delivery alternating piston pump. 2,426,361; Aug. 26.
- Lesuk, Alex, Albany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Circulatory hormone preparation and making the same. 2,424,401; July 22.
- Leszkowicz, Joseph, Brookhaven, N. Y. Retainer shield for potato diggers. 2,421,425; June 3.
- Le Tourneau, R. G., Inc., assignee: *See*—  
Isgren, Elmer E., and Dirks.  
Le Tourneau, Robert G.
- Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Differential. 2,415,293; Feb. 4.



- Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Self-propelled dump wagon. 2,418,588; Apr. 8.
- Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Feed speed control means for hydraulically operated machine tools. 2,422,357; June 17.
- Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Rooter. 2,422,490; June 17.
- Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Self-loading wagon. 2,426,889; Sept. 2.
- Letourneur, Alfred A., Beverly Hills, Calif. Gearshift for bicycles and the like. 2,428,166; Sept. 30.
- Lett, Julian T., assignee, et al.: See—  
Wiley, Lee M.
- Leum, Leonard N., Upper Darby, S. J. Macuga, Lansdowne, and S. I. Kreps, assignors to The Atlantic Refining Company, Philadelphia, Pa. Effecting the separation of a monoclefin from a diolefin. 2,433,465; Dec. 30.
- Leupe, Louis E., Burlingame, Calif. Piston construction. 2,416,487; Feb. 25.
- Leusch, Frederick M., Lemmon, S. Dak. Crank shaft grinding machine. 2,431,054; Nov. 18.
- Levaggi, Victor J., Jr., Beverly, assignor to United Last Company, Boston, Mass. Collapsible last. 2,429,233; Oct. 21.
- Le Van, James D., Belmont, assignor to Raytheon Manufacturing Company, Newton, Mass. Ultra high frequency tube. 2,418,844; Apr. 15.
- Le Van, James Oliver, assignor to Hamilton Watch Company, Lancaster, Pa. Perforated plate apparatus for counting jewels. 2,432,319; Dec. 9.
- Le Van, John F., assignor to Excel Corporation, Elkhart, Ind. Joint for tubes, rods, and the like. 2,417,654; Mar. 18.
- Le Vangie, Benjamin M., Randolph, Mass., assignor, by mesne assignments, to General Foods Corporation, New York, N. Y. Manufacture of chocolate articles. 2,425,431; Aug. 12.
- Levenhagen, Arthur J., assignor to Ditto, Incorporated, Chicago, Ill. Copy sheet moistening means for duplicating machines. 2,416,449; Feb. 25.
- Leventhal, Jacob F., New York, N. Y., assignor to Leventhal Patents, Inc., Chattanooga, Tenn. Optical compensator. 2,417,002; Mar. 4.
- Leventhal Patents, Inc., assignee: See—  
Leventhal, Jacob F.
- Lever Brothers Company, assignee: See—  
Henderson, Lloyd F., and Libby.  
Murphy, John F., and Holt.  
Pease, Fred F.  
Tainsh, Peter W.  
Wandel, George H., and Rider.  
Ziels, Norbert W., and Schmidt.
- Leverenz, Humboldt W., South Orange, N. J., assignor to Radio Corporation of America. Alkali metal halide and luminescent screen of substantially coincident spectral absorption. 2,418,779; Apr. 8.
- Leverenz, Humboldt W., Princeton, N. J., assignor to Radio Corporation of America. Alkali halide target with contrasting colors. 2,418,780; Apr. 8.
- Leverenz, Humboldt W., South Orange, N. J., assignor to Radio Corporation of America. Manufacturing luminescent sulfides and selenides. 2,421,207; May 27.
- Leverenz, Humboldt W., Princeton, N. J., assignor to Radio Corporation of America. Applying phosphor material to a support member. 2,421,208; May 27.
- Leverenz, Humboldt W., South Orange, N. J., assignor to Radio Corporation of America. Cathode-ray target and manufacture. 2,432,908; Dec. 16.
- Le Vesconte, Harold J., Glendale, Calif., and A. M. Schweda, assignors to Union Special Machine Company, Chicago, Ill. Sewing machine. 2,424,102; July 15.
- Levesque du Rostu, Georges, assignor to Societe Anonyme Andre Citroen, Paris, France. Cooling device of internal-combustion engine. 2,417,591; Mar. 18.
- Levey, Harold A., New Orleans, La., and T. Gary, Jr.; said Levey assignor to J. A. Howard, Beaumont, Tex. Computing and billing meter. 2,414,821; Jan. 28.
- Levey, Harold A., and A. C. Patterson, New Orleans, La., said Levey assignor to said Patterson. Apparatus for producing smoke screens. 2,422,024; June 10.
- Levey, Harold A., and A. C. Patterson, New Orleans, La.; said Levey assignor to said Patterson. Smoke screen composition. 2,432,577; Dec. 16.
- Levey, Lawrence, New York, N. Y. Television studio construction. 2,421,274; May 27.
- Levi, Alfred A., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Phenothiazine derivatives. 2,415,252; Feb. 4.
- Levikow, Simon, Kansas City, Mo. Frame and closure therefor. 2,423,987; July 15.
- Levin, David, Brooklyn, N. Y. Fruit squeezer. 2,420,142; May 6.
- Levin, Ezra, Champaign, Ill. Flaking sunflower seed for solvent extraction. 2,417,507; Mar. 18.
- Levin, Isadore, Washington, D. C. Portable flush-type commode. 2,428,462; Oct. 7.
- Levine, Arnold M.: See—  
Grieg, Donald D., and Levine.
- Levine, Arthur A., and O. W. Cass, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of 2-chlorobutadiene-1,3. 2,415,294; Feb. 4.
- Levine, Benjamin D., Newton, Mass. Storm window. 2,430,615; Nov. 11.
- Levine, Charles, Detroit, Mich. Making dentures. 2,423,330; July 1.
- Levine, Della D., assignee: See—  
Colombo, Paul V.
- Levine, Ely H., New Britain, Conn. Detachable boot and shoe heel. 2,421,792; June 10.
- Levinson, Benjamin L., Great Neck, N. Y., assignor, by mesne assignments, to Solar Aircraft Company, San Diego, Calif. Pressure casting machine. 2,418,649; Apr. 8.
- Levinson, Sidney O., and F. Oppenheimer, assignors to Michael Reese Research Foundations, Chicago, Ill. Vaccine and antigen and producing the same. 2,421,382; June 3.
- Levitt, Israel M., Philadelphia, Pa. Self-contained emergency oxygen breather. 2,428,425; Oct. 7.
- Levitt, Percy B.: See—  
Morgan, John D., and Levitt.
- Levy, Cyril C., deceased, Pittsburgh, by Helen A. Levy, executrix, Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrode feed control system. 2,432,909; Dec. 16.
- Levy, Harold: See—  
Daniels, Ralph, and Levy.
- Levy, Helen A., executrix: See—  
Levy, Cyril C.
- Levy, Joseph, Brooklyn, assignor to Century Lighting, Inc., New York, N. Y. Lighting fixture. 2,430,472; Nov. 11.
- Lévy, Maurice M., London W. C. 2, England, assignor to International Standard Electric Corporation, New York, N. Y. Thermionic valve amplifier. 2,416,334; Feb. 25.
- Lévy, Maurice M., London, W. C. 2, assignor to Standard Telephones and Cables Limited, London, England. Apparatus for measuring short time intervals. 2,419,576; Apr. 29.
- Lévy, Maurice M., London, W. C. 2, England, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Detection of obstacles by electromagnetic impulses. 2,421,340; May 27.
- Lévy, Maurice M., London, W. C. 2, assignor to Standard Telephones and Cables Limited, London, England. Electrical oscillation generator. 2,433,378; Dec. 30.
- Lévy, Maurice M., and L. E. Weaver, London, W. C. 2, assignors to Standard Telephones and Cables Limited, London, England. Generation of electrical impulses. 2,433,379; Dec. 30.
- Levy, Sylvan N. and W. B., Wilmington, Del. Furnace wall construction. 2,422,571; June 17.
- Levy, William B.: See—  
Levy, Sylvan N. and W. B.
- Lewis, Arthur P., and J. C. Manley, Fairhaven, Mass., assignors to United States Rubber Company, New York, N. Y. Carding machine attachment for controlling the web weight. 2,426,312; Aug. 26.
- Lewis, Arthur W., Plainfield, N. J., and J. E. Schott, New York, N. Y., assignors to Tide Water Associated Oil Company, Bayonne, N. J. Inhibited oil. 2,417,876; Mar. 25.
- Lewis, Aubrey W., and W. Glantz, Harvard, Nebr. Portable screw conveyor. 2,425,681; Aug. 12.
- Lewis, Bruce L., North Hills, assignor to J. B. Hudson, Inc., Philadelphia, Pa. Can opener. 2,429,885; Oct. 28.
- Lewis, Charles E.: See—  
West, Byron L., and Lewis.
- Lewis, Clarence H.: See—  
Barry, Richard J., and Lewis.
- Lewis, Elton R., Roselle Park, N. J., assignor to Standard Oil Development Company. Automatic oxygen indicator. 2,417,877; Mar. 25.
- Lewis, Francis B., Omaha, Nebr., and J. A. Schroeder, Denver, Colo. Waste retainer for journal boxes. 2,432,243; Dec. 9.
- Lewis, Frank M., Weston, Mass., assignor to General Machinery Corporation, Hamilton, Ohio. Stroke governor for free piston engines. 2,430,066; Nov. 4.
- Lewis, George E., Detroit, Mich. Welding electrode. 2,418,781; Apr. 8.
- Lewis, George L., Christiana, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification of titanium salt solutions. 2,414,049; Jan. 7.
- Lewis, Glover A., Houston, Tex. Transformer. 2,414,232; Jan. 14.
- Lewis, Harold M., Allenhurst, N. J., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. System for locating a radiated-signal reflector. 2,426,460; Aug. 26.
- Lewis, Harold M., Allenhurst, N. J., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. System for space scanning with a radiated wave-signal beam. 2,429,726; Oct. 28.
- Lewis, Harold M., Allenhurst, N. J., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Radiated-signal receiving system. 2,430,296; Nov. 4.
- Lewis, Harry F.: See—  
Coffman, John R., and Lewis.



- Lewis, Harry F., and F. B. Brauns, Appleton, Wis., assignors, by mesne assignments, to The Mead Corporation, Chillicothe, Ohio. Esters of lignin material. 2,429,102; Oct. 14.
- Lewis, Harry F., and I. A. Pearl, assignors, by mesne assignments, to Sulphite Products Corporation, Appleton, Wis. Treatment of lignin substances. 2,433,227; Dec. 23.
- Lewis, Howard B., Los Angeles, Calif. Safety hat. 2,415,214; Feb. 4.
- Lewis, Howard B., Venice, Calif. Safety hat. 2,416,529; Feb. 25.
- Lewis Invisible Stitch Machine Company, assignee: *See*—Mann, Joseph.
- Mueller, Charles W.
- Lewis, Jacob D., Yonkers, assignor to Otis Elevator Company, New York, N. Y. Plural pole number induction motor. 2,419,268; Apr. 22.
- Lewis, James E., Chicago, Ill. International time and day clock. 2,417,695; Mar. 18.
- Lewis, Joseph W., Jr., New York, N. Y. Garment. 2,420,486; May 13.
- Lewis, Lloyd V., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Remote control system. 2,420,546; May 13.
- Lewis, Robert P., assignor to C. T. Collins, Waco, Tex. Method and apparatus for measuring and manufacturing Venetian blinds. 2,418,515; Apr. 8.
- Lewis, Robert P., assignor to Spicer Manufacturing Corporation, Toledo, Ohio. Driving axle construction for independently sprung vehicle wheels. 2,422,739; June 24.
- Lewis, Rose, New York, N. Y. Combination nether garment. 2,424,698; July 29.
- Lewis, Roy L., Atlanta, Ga. Sanitary telephone attachment. 2,427,147; Sept. 9.
- Lewis-Shepard Company, assignee: *See*—Garbarino, Frank.
- Hastings, Russell, Jr.
- Hastings, Russell, Jr., and Becker.
- Shepard, Frederick J., Jr., and Garbarino.
- Lewis, Truman G., Reseda, assignor to W. G. Klein, Tarzana, Calif. Oil well pump. 2,431,492; Nov. 25.
- Lewis, William H., Los Angeles, Calif. Carriage means for road vehicles. 2,422,792; June 24.
- Lewis, William H.; *See*—Berry, Fred M., and Lewis.
- Lewis, William T., assignor to Whitman Publishing Company, Racine, Wis. Toy helicopter. 2,418,269; Apr. 1.
- Lewon, Rubin; *See*—Abrahams, Samuel A., Lewon, and Dinkfeld.
- Ley, Eugene B.; *See*—Lander, Roy S., and Ley.
- Leyde, Glen W., Falls Church, Va. Lifesaving craft. 2,417,508; Mar. 18.
- Leydon, Arthur J.; *See*—Egan, Charles H., Leydon, and Fahey.
- Leyshon, William E., assignor to Sylvania Electric Products Inc., Salem, Mass. Fluorescent glow lamp. 2,421,571; June 3.
- L'Hollier, Leslie H., Waltham, Mass., assignor to The B. F. Goodrich Company, New York, N. Y. Article of footwear having adjustable closure means. 2,433,228; Dec. 23.
- Libbey-Owens-Ford Glass Company, assignee: *See*—Clipper, Oliver P.
- Colbert, William H., and Morgan.
- Colbert, William H., and Weinrich.
- Cordier, David E.
- Doner, Halbert C.
- Haven, Charles D.
- McMaster, Harold A.
- Meyer, Leonard S.
- Ogle, James C., Jr., and Weinrich.
- Ryan, Joseph D., and Shaw.
- Libbey, Stanley D., assignee: *See*—Spencer, Hugh M.
- Libby, James W.; *See*—Rossander, Swane S., Sparks, and Libby.
- Libby, Lester L., East Orange, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Antenna system. 2,419,577; Apr. 29.
- Libby, Louis H.; *See*—Henderson, Lloyd F., and Libby.
- Liben, William, New York, N. Y., and F. H. MacKenzie, U. S. Army, Washington, D. C. Photoelectric photometer. 2,428,806; Oct. 14.
- Libman, Charles, and W. A. Gribble, Los Angeles, Calif. Electric heater and vaporizer. 2,426,939; Sept. 2.
- Libman, Charles L., assignee: *See*—Roche, Alfred R.
- Libshutz, Harry and I., Baltimore, Md. Uniform cap. 2,424,279; July 22.
- Libshutz, Irving; *See*—Libshutz, Harry and I.
- Licata, Francis J., New York, N. Y., assignor to Nopco Chemical Company, Harrison, N. J. Aluminum-base greases. 2,431,760; Dec. 2.
- Licht, Anna, New York, N. Y. Lady's garment. 2,432,910; Dec. 16.
- Lichtenberg, Erich H., Milwaukee, Wis., assignor to The Parsons Company, Newton, Iowa. Ditching machine. 2,425,746; Aug. 19.
- Lichtenberg, Erich H., Milwaukee, Wis., and F. B. Robb, Chagrin Falls, Ohio, assignors to Koebring Company, Milwaukee, Wis. Dirt scraping and hauling vehicle. 2,420,319; May 13.
- Lichtenstein, Hans J.; *See*—Tuerck, Karl H. W., and Lichtenstein.
- Lichtenwalter, Myrl; *See*—Davis, Harold S., Lichtenwalter, and Erickson.
- Davis, Harold S., Lichtenwalter, and Zeischke.
- Lichtenwalter, Myrl, and O. F. Wiedeman, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparing hydracrylamide. 2,415,645; Feb. 11.
- Lichtig, Arnold, executor, et al.; *See*—Adler, Jesse and A. H.
- Lichty, Joy G.; *See*—Clifford, Albert M., and Lichty.
- Lichty, Joy G., Stow, assignor to Wingfoot Corporation, Akron, Ohio. Chloroacrylophenones and polymers. 2,415,796; Feb. 11.
- Lichty, Joy G., Stow, assignor to Wingfoot Corporation, Akron, Ohio. Chloro cyanobutanes. 2,425,432; Aug. 12.
- Lickteig, Albert F., assignor to National Brass Company, Grand Rapids, Mich. Inside locking latch construction. 2,420,083; May 6.
- Lickteig, Albert F., assignor to National Brass Company, Grand Rapids, Mich. Locking latch. 2,423,988; July 15.
- Lickteig, Albert F., assignor to National Brass Company, Grand Rapids, Mich. Locking latch. 2,431,814; Dec. 2.
- Liewinko, Boleslaw, Conshohocken, Pa. Center finder for drill bits and the like. 2,427,290; Sept. 9.
- Lidard, Edgar; *See*—Warth, Albin H., and Lidard.
- Liddiard, Hugh W. C.; *See*—Petch, Thomas H., and Liddiard.
- Lidin, Sigfrid E., Stockholm, assignor to Aktiebolaget Atvidabergs Industrier, Atvidaberg, Sweden. Venetian blind. 2,416,530; Feb. 25.
- Lidow, Eric, assignor to Selenium Corporation of America, Los Angeles, Calif. Photoelectric cell. 2,414,233; Jan. 14.
- Lidow, Eric, assignor to Selenium Corporation of America, Los Angeles, Calif. Amplifier. 2,418,516; Apr. 8.
- Lidow, Eric, and E. M. Burlin, assignors to Selenium Corporation of America, Los Angeles, Calif. Rectifier. 2,430,350; Nov. 4.
- Lidow, Eric, Los Angeles, and C. E. Holmes, La Crescenta, assignors to Tellurium Corporation of America, Los Angeles, Calif. Rectifier. 2,430,351; Nov. 4.
- Liebel-Flarsheim Company, The, assignee: *See*—Gieringer, Carl K.
- Lieber, Eugene, New York, N. Y., assignor to Standard Oil Development Company. Pour depressor. 2,415,699; Feb. 11.
- Lieber, Eugene, Staten Island, N. Y., and A. F. Cashman, Bayonne, N. J., assignors to Standard Oil Development Company. Lubricants, etc., containing waxy hydrocarbons and a ketone-aromatic condensation product as wax modifier. 2,422,247; June 17.
- Lieber, Eugene, Staten Island, and M. E. Thorner, Brooklyn, N. Y., assignors to Standard Oil Development Company. Lubricating oil composition. 2,425,747; Aug. 19.
- Lieberherr, Hans, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland. Multicylinder opposed piston internal-combustion engine. 2,416,762; Mar. 4.
- Lieberherr, Hans, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland. Opposed piston engine cylinder liner. 2,423,395; July 1.
- Lieberknecht, Karl, Inc., assignee: *See*—Friedmann, Albert.
- Zesch, Eugene M.
- Lieblisch, Morris, Brooklyn, N. Y., assignor to Radio City Products Co., Inc. Mutual conductance apparatus. 2,432,911; Dec. 16.
- Liebmann, August G., assignor of one-half to H. A. Blessing, Washington, D. C. Means facilitating stacking of containers. 2,429,958; Oct. 28.
- Liebmann, Gerhard, assignor to Cathodeon Limited, Cambridge, England. Cathode-ray tube with shielded deflecting plates. 2,425,682; Aug. 12.
- Liebowitz, Benjamin, Levisboro, assignor to Trubenizing Process Corporation, New York, N. Y. One-piece collar. 2,423,510; July 8.
- Liescher, Arthur, Philadelphia, Pa., assignor to Radio Corporation of America. Jack and plug type of electrical connector. 2,429,026; Oct. 14.
- Liescher, Edward S., North Bergen, N. J. Triglyceride refining process. 2,415,140; Feb. 4.
- Liebson, Barnet, Brooklyn, N. Y. Cigarette box. 2,427,218; Sept. 9.
- Lieg, Leo, Clintonville, Wis. Welder's mask. 2,419,649; Apr. 29.
- Lien, Arthur P., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Extraction of quinonoid hydrocarbons from benzenoid hydrocarbons by anhydrous hydrogen fluoride. 2,426,624; Sept. 2.
- Lien, Arthur P., Hammond, Ind., B. L. Evering, Chicago, Ill., and B. H. Shoemaker, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Catalytic cracking of hydrocarbons in the presence of hydrogen fluoride and boron fluoride. 2,427,009; Sept. 9.



- Lien, Arthur P., Hammond, Ind., and B. L. Evering, assignors to Standard Oil Company, Chicago, Ill. Conversion of naphthenes to paraffins. 2,427,865; Sept. 23.
- Lien, Arthur P., and B. H. Shoemaker, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Catalytic alkylation of aromatic hydrocarbons by normal paraffins. 2,430,516; Nov. 11.
- Lifner, Eric J., Newark, assignor to Worthington Pump and Machinery Corporation, Harrison, N. J. Pilot controlled steam distributing valve for reciprocating expandable chamber motors. 2,420,961; May 20.
- Lifshitz, Morris J., Brooklyn, N. Y. Electric gaseous discharge lamp testing unit. 2,415,502; Feb. 11.
- Lifton, Samuel H., New York, N. Y. Combined brief and overnight case. 2,418,589; Apr. 8.
- Liger, Andrew W., assignor to Bay State Abrasive Products Company, Westboro, Mass. Metal bonded abrasive. 2,427,565; Sept. 16.
- Liggett, Waldo B., Detroit, Mich., and E. T. McBee, La Fayette, and Vincent V. Lindgren, assignors to Purdue Research Foundation, West Lafayette, Ind. Perfluorocyclohexadiene. 2,432,997; Dec. 23.
- Ligh, David R., Stamford, Conn., assignor to Darli Industrial Management, Inc., New York, N. Y. Ball-and-socket gearing. 2,430,129; Nov. 4.
- Light, David M., assignor to American Steel Foundries, Chicago, Ill. Car truck. 2,424,936; July 29.
- Light, Donald W., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Making clay films. 2,425,626; Aug. 12.
- Light, Philip H., Schenectady, N. Y., assignor to General Electric Company. Protection of alternating current electric power systems. 2,421,630; June 3.
- Light, Philip H., Schenectady, N. Y., assignor to General Electric Company. Protection of alternating current electric power systems. 2,431,572; Nov. 25.
- Lightfoot, Ralph B., Stratford, assignor to United Aircraft Corporation, East Hartford, Conn. Airplane of low aspect ratio. 2,430,820; Nov. 11.
- Lighthipe, Charles H.: *See*—  
Retzsch, Clinton E., and Lighthipe.
- Lightowler, William A., assignor to The Maudslay Motor Company Limited, Coventry, England. Crankshaft. 2,419,408; Apr. 22.
- Lilienfeld, Antonie, administratrix: *See*—  
Lilienfeld, Leon.
- Lilienfeld, Leon, deceased, Vienna, Germany, by A. Lilienfeld, Winchester, administratrix, assignor to Lilienfeld Patents, Inc., Boston, Mass. Dressing fibrous and textile materials. 2,422,572; June 17.
- Lilienfeld, Leon, deceased, Vienna, Germany, by A. Lilienfeld, Winchester, administratrix, assignor to Lilienfeld Patents, Inc., Boston, Mass. Xanthated cellulose derivative and process of coating with same. 2,422,573; June 17.
- Lilienfeld Patents, Inc., assignee: *See*—  
Lilienfeld, Leon.
- Lilienthal, James R., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Gyrocompass amplifier circuit. 2,422,687; June 24.
- Liljestrom, Gusta\*, and O. Klingstrom, Gothenburg, Sweden. Adding machine. 2,424,359; July 22.
- Lilliendahl, William C., Mountain Lakes, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Producing tungsten compounds. 2,414,601; Jan. 21.
- Lilley, Daniel G., Denver, Colo. Torque responsive variable pitch propeller. 2,432,320; Dec. 9.
- Lilly, Eli, and Company, assignee: *See*—  
Kharasch, Morris S.  
Kharasch, Morris S., and Fuchs.  
Shonle, Horace A., and Corse.  
Van Arendonk, Arthur M.
- Lilly, Richard C., assignee: *See*—  
Tooby, George.
- Lilly, Thomas F., Memphis, Tenn. Transmission. 2,432,201; Dec. 9.
- Lily of France Corset Company, Inc., assignee: *See*—  
Williams, Marguerite R.
- Lime, Iola S., Jefferson City, Mo., assignor, by mesne assignments, to Lynean Manufacturing Co., Inc. Beverage brewing and vending machine. 2,433,054; Dec. 23.
- Limon, Joseph J., Bayonne, N. J. Shotgun choke. 2,428,232; Sept. 30.
- Linakis, Spiro, assignee, et al.: *See*—  
O'Toole, Richard P., and Parlani.
- Linary, Dave, assignee: *See*—  
Henderson, James R.
- Linch, Adrian L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Condensation derivatives of organic quaternary ammonium compounds. 2,414,050; Jan. 7.
- Linch, Adrian L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Stabilizing or deactivating sludges, precipitates and residues occurring or used in the manufacture of tetraalkyl leads. 2,432,321; Dec. 9.
- Lincks, George F., Pittsfield, Mass., assignor to General Electric Company. Electric fuse clamp. 2,427,916; Sept. 23.
- Lincks, George F., Pittsfield, Mass., and Jens M. Jensen, Lansdowne, Pa., assignors to General Electric Company. Automatic reclosing circuit breaker system. 2,414,786; Jan. 21.
- Lincoln, Bert H., Ponca City, Okla., and G. D. Byrkit, Niagara Falls, N. Y. Lubricating oil. 2,415,296; Feb. 4.
- Lincoln, Bert H., Ponca City, Okla., and G. D. Byrkit, Niagara Falls, N. Y. Lubricating oil. 2,421,631; June 3.
- Lincoln, Bert H., Ponca City, Okla., and G. D. Byrkit, Niagara Falls, N. Y., assignors to Continental Oil Company, Ponca City, Okla. Lubricant. 2,413,718; Jan. 7.
- Lincoln, Bert H., and J. M. Hersh, assignors to Continental Oil Company, Ponca City, Okla. Lubricant. 2,417,833; Mar. 25.
- Lincoln, Bert H., and G. D. Byrkit, assignors to Continental Oil Company, Ponca City, Okla. Lubricating oil. 2,418,358; Apr. 1.
- Lincoln Electric Company, The, assignee: *See*—  
Wilson, Robert A., and Matthews.
- Lincoln Engineering Company assignee: *See*—  
Dorsey, Sherman H., Reisert, Fox, and Mueller.
- Lincoln Machine Co. Inc., assignee: *See*—  
Bloomington, Harold L.
- Lincoln, Roland L., Dover, assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Dust collector. 2,424,572; July 29.
- Lincoln, Roland L., Dover, Mass., assignor, by mesne assignments, to Westinghouse Electric Corporation. Dust collector. 2,431,336; Nov. 25.
- Lind, Arthur C., assignor to Chain Belt Company, Milwaukee, Wis. Sedimentation chamber for separating solids from liquids having flow distributing means therein. 2,428,756; Oct. 7.
- Lind, Arthur C., assignor to Chain Belt Company, Milwaukee, Wis. Attachment means for conveyor flights. 2,428,757; Oct. 7.
- Lind, Rudolf E., Milwaukee, Wis. Physiotherapy cabinet. 2,420,254; May 6.
- Linda, Frank R.: *See*—  
Belcher, Daniel, and Linda.
- Lindabury, Tryon S., St. Louis, Mo. Collapsible stroller. 2,429,763; Oct. 23.
- Lindahl, Gunnar: *See*—  
Widen, Erik, and Lindahl.
- Lindbeck, Simon L., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Torque regulator. 2,414,539; Jan. 21.
- Lindberg Engineering Company, assignee: *See*—  
Gamble, Slade L.  
Lang, Karl A.
- Lindberg, John E., Lafayette, Calif. Icing detection device. 2,426,625; Sept. 2.
- Lindberg, John E., Jr., Lafayette, Calif., and B. Walker, Arlington, Va. Signalling system. 2,423,713; Oct. 7.
- Linde Air Products Company, The, assignee: *See*—  
Arnoldy, Roman F.  
Baird, Albert W.  
Brimm, Eugene O.  
Bucknam, James H., and Thompson.  
Cook, Gerhard A.  
Doyle, Edmund A.  
Dyar, Hugh H.  
Fowle, John M., and Kennedy.  
Higginbotham, Beverly M.  
Higgs, Bryant H.  
Jenness, Leslie G.  
Jones, Homer W., and Meincke.  
Kennedy, Harry E.  
Kerns, Roy S.  
Kratz, John A., and Thoma.  
Linden, Walter R., and Moss.  
McGuire, Frank, Jr.  
Miller, Alfred J., Weidner and Kolody.  
Morris, Edward D.  
O'Brian, Maurice, and Biggins.  
Riede, Peter M.  
Scherl, Egon B.  
Shorter, Albert E.  
Smith, George H.  
Westerman, Earl E.  
Whaley, Fred R., and Brimm.  
Yendall, Edward F.
- Linde, Hilding, Kalmar, Sweden. Refuse collecting container. 2,417,696; Mar. 18.
- Lindeblad, Olof, Stocksund, Sweden. Stand for dishwashing machines. 2,433,823; Dec. 30.
- Lindeck, Simon L., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Generator voltage regulation. 2,426,035; Aug. 19.
- Lindecker, Joseph B., assignee: *See*—  
Tallaksen, Olaf.
- Lindemann, A. J., and Hoverson Company, assignee: *See*—  
Pellegrin, Elmer D.
- Lindemann, Charles A., Bridgeport, Conn., assignor to General Electric Company. Suds-lock decreasing means for spinner type clothes washing machines. 2,425,378; Aug. 12.
- Linden, Walter R., Palisades Park, and H. H. Moss, Elizabeth, N. J., assignors to The Linde Air Products Company. Apparatus for bending pipe. 2,433,055; Dec. 23.
- Lindenbergh, Theodore, Jr., and S. N. Howell, Manhasset, assignors to Fairchild Camera and Instrument Corporation, Jamaica, N. Y. Equalizing repeating system. 2,433,771; Dec. 30.



- Lindenblad, Nils E., Rocky Point, N. Y., assignor to Radio Corporation of America. Antenna. 2,414,266; Jan. 14.
- Lindenblad, Nils E., Rocky Point, N. Y., assignor to Radio Corporation of America. Transmit-receive switch. 2,416,105; Feb. 18.
- Lindenblad, Nils E., Rocky Point, N. Y., assignor to Radio Corporation of America. Lobe switching antenna. 2,423,150; July 1.
- Lindenblad, Nils E., Rocky Point, N. Y., assignor to Radio Corporation of America. Transmission line circuit. 2,425,379; Aug. 12.
- Lindenblad, Nils E., Rocky Point, N. Y., assignor to Radio Corporation of America. End fire directive antenna. 2,425,887; Aug. 19.
- Linder, Ernest G., Princeton, N. J., assignor to Radio Corporation of America. Cavity resonator magnetron. 2,415,253; Feb. 4.
- Linder, Ernest G., Princeton, N. J., assignor to Radio Corporation of America. Wave guide attenuator. 2,423,396; July 1.
- Linder, Ernest G., Princeton, N. J., assignor to Radio Corporation of America. Shorting piston for wave guides. 2,428,287; Sept. 30.
- Linder, Ernest G., Princeton, N. J., assignor to Radio Corporation of America. Attenuator for wave guides. 2,430,130; Nov. 4.
- Linder, Lowell: *See*—  
Martin, Walter R., Linder, and Blythe.
- Linderoth, Lambert S., Jr., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Control mechanism for gun training apparatus. 2,425,433; Aug. 12.
- Lindgren, Frank A., La Grange, assignor to Goodman Manufacturing Company, Chicago, Ill. Kerf-cutting machine. 2,429,323; Oct. 21.
- Lindgrin, Vincent V.: *See*—  
Ligett, Waldo B., McBee, and Lindgren.
- Lindhurst, Roland W.: *See*—  
Hasler, Maurice F., and Lindhurst.
- Lindhurst, Rowland W., assignee, et al.: *See*—  
Dieter, Harry W., and King.
- Lindmark, Robert E., assignee, et al.: *See*—  
Krebs, Daniel D.
- Lindner, Gordon F., Royal Oak, Mich., and H. J. Livermore, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Adhesive for use as tile cements and the like. 2,430,987; Nov. 18.
- Lindner, John F., Norval, Ontario, Canada. Apple paring and coring machine. 2,418,805; Apr. 8.
- Lindner, Karl A., and W. M. Morrison, Plainfield, and A. Busche, Stelton, N. J., assignors to American Smelting and Refining Company, New York, N. Y. Electrolytic refining of metals. 2,421,209; May 27.
- Lindower, Alex., assignee: *See*—  
Loonin, Hyman H.
- Lindquist, John R.: *See*—  
McKennon, Forrest L., and Lindquist.
- Lindquist, Leon W.: *See*—  
Erwin, Roy, Troutman, and Lindquist.
- Lindsay, Alexander R.: *See*—  
Ulrich, Theodore, and Lindsay.
- Lindsay, Allen R.: *See*—  
Lindsay, Ralph F. and A. R.
- Lindsay, Charles H., assignor to American-La France Foamite Corporation, Elmira, N. Y. Fireman's nozzle. 2,417,655; Mar. 18.
- Lindsay Corporation, The, assignee: *See*—  
Lindsay, Harvey B.
- Lindsay, Donald G.: *See*—  
Irish, Alfred J., and Lindsay.
- Lindsay, Frank E. P.: *See*—  
Robinson, William J., II, and Lindsay.
- Lindsay, Harvey B., Evanston, assignor, by mesne assignments, to The Lindsay Corporation, Chicago, Ill. Die plate for flanging metallic sheets of variable size. 2,421,457; June 3.
- Lindsay, James R., Baxley, Ohio, assignor to The Jeffrey Company. Electrical circuit. 2,419,686; Apr. 29.
- Lindsay, Lynn G., St. Paul, Minn. Dehydrator attachment for tanks. 2,428,426; Oct. 7.
- Lindsay, Ralph F., Detroit, Mich., and A. R. Lindsay, Cleveland, assignors to The Dayton Rubber Manufacturing Company, Dayton, Ohio. Wire reinforced belt. 2,414,822; Jan. 28.
- Lindsay Ripe Olive Company, assignee: *See*—  
Kagley, William H.
- Lindsay Wire Weaving Company, The, assignee: *See*—  
Dilley, Donald C., and McGregor.  
Crossman, Fred, and Southam.  
Crossman, Fred, Southam, and Ruhl.
- Lindsey, Henry K., Asheville, N. C. Portable and collapsible stand for cameras. 2,433,133; Dec. 23.
- Lindsey, Mark F.: *See*—  
Lee, Kenneth M., and Lindsey.
- Lindsey, Richard V., Jr., and S. L. Scott, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Curing halogen containing linear polymers. 2,416,878; Mar. 4.
- Lindsey, William, Syracuse, N. Y. Centrifugal drier for hats. 2,425,546; Aug. 12.
- Lindsten, Don Chester, Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive. 2,432,578; Dec. 16.
- Lindstrom, Charles M., East Greenwich, assignor to Boston Wire Stitche Company, Warwick, R. I. Feed mechanism for stapling machines. 2,429,269; Oct. 21.
- Lindstrom, Frank L., assignee: *See*—  
Carlson, Arnold.
- Lindstrom, Ture: *See*—  
Horn, Merl E., Lindstrom, and Florschutz.
- Lindstrom, Walter A.: *See*—  
Knight, Walter S., and Lindstrom.
- Lindvall, Frederick C.: *See*—  
Gould, Albert S., and Lindvall.
- Line Material Company, assignee: *See*—  
Earle, Ralph H., and Amundson.  
Everhardt, James G.
- Link, Edwin A.  
Nelson, Rolland D.  
Phillips, Leon A.  
Runke, Glenn R.  
Schultz, William O.  
Steinmayer, Alwin G.  
Stoelting, Herman O.  
Woolfolk, Arthur R.
- Lingel, Frederick J., assignor to The Triplett Electrical Instrument Company, Bluffton, Ohio. Electrical measuring instrument. 2,416,835; Mar. 4.
- Lingel, Frederick J., assignor to R. L. Triplett, Bluffton, Ohio. Tester jack. 2,418,517; Apr. 8.
- Lingel, Frederick J., assignor to The Triplett Electrical Instrument Co., Bluffton, Ohio. Electrical measuring instrument. 2,426,777; Sept. 2.
- Linhart, Harry M.: *See*—  
Stevens, Roy R., and Linhart.
- Linger, Max, Basel, Switzerland. Sewing machine with adjustable cloth feed-motion. 2,414,652; Jan. 21.
- Link Aviation Devices, Inc., assignee: *See*—  
Jones, William D.
- Link Aviation, Inc., assignee: *See*—  
Marsh, Harold A.
- Link-Belt Company, assignee: *See*—  
Bergmann, Richard F., and Sjolander.  
Erismann, John L.  
Keller, Henry G., and Young.
- Link, Edwin A., assignor to Line Material Company, South Milwaukee, Wis. Switch construction. 2,418,359; Apr. 1.
- Link, Edwin A., assignor to Line Material Company, South Milwaukee, Wis. Three-phase transformer. 2,431,128; Nov. 18.
- Link, John H., Merion, Pa., assignor to W. H. Miner, Inc., Chicago, Ill. Draft and buffing gear. 2,413,837; Jan. 7.
- Link, John H., Merion, Pa., assignor to W. H. Miner, Inc., Chicago, Ill. Railway car-end buffer. 2,431,761; Dec. 2.
- Link, Karl P.: *See*—  
Stahmann, Mark A., Ikawa, and Link.
- Link, Richard A., Grand Rapids, Mich., assignor, by mesne assignments, to Wilson Athletic Goods Mfg. Co. Inc., Chicago, Ill. Golf club head. 2,414,234; Jan. 14.
- Links, Julian A., San Francisco, Calif. Motion-picture projection apparatus. 2,419,961; May 6.
- Linn, Carl B.: *See*—  
Ipatieff, Vladimir N., and Linn.
- Linn, Carl B., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Polymerization of olefinic hydrocarbons. 2,414,380; Jan. 14.
- Linn, Carl B., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Polymerization of olefinic hydrocarbons. 2,421,950; June 10.
- Linn, Carl B., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Polymerization of olefinic hydrocarbons. 2,421,951; June 10.
- Linn, Carl B., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Treating a hydrocarbon mixture which is contaminated by small amounts of organic fluorine compounds. 2,428,753; Oct. 7.
- Linn, Carl B., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Treating a hydrocarbon or hydrocarbon mixture which is contaminated by small amounts of organic fluorine compounds. 2,428,754; Oct. 7.
- Linn, Carl B., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Preparation of ethyl fluosulfonate. 2,428,755; Oct. 7.
- Linn, Carl B., assignor to Universal Oil Products Company, Chicago, Ill. Alkylation of isoparaffinic hydrocarbons. 2,430,181; Nov. 4.
- Linn, Carl B., Riverside, and V. N. Ipatieff, assignors to Universal Oil Products Company, Chicago, Ill. Polymerization of olefinic hydrocarbons in the presence of boron fluoride and an acid fluoride of a metal. 2,416,106; Feb. 18.
- Linn, Carl B., and V. N. Ipatieff, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of alkyl ketones. 2,429,361; Oct. 21.
- Linn Company, assignee: *See*—  
Linn, Frank F.
- Linn, Frank F., Oakland, Calif., assignor to Linn Company. Wheel suspension for vehicles. 2,426,513; Aug. 26.
- Linn, Raymond, assignor to Ex-Cell-O Corporation, Detroit, Mich. Fly tool for generating spherical surfaces. 2,431,815; Dec. 2.
- Linnartz, John G., New York, N. Y. Parallel screw clamp. 2,419,270; Apr. 22.



- Linneman, Richard H.: *See*—  
Grimm, William C., and Linneman.
- Linney, Albert T., Lexington, Ky. Sounding toy. 2,420,287; May 6.
- Linse, Robert E.: *See*—  
Murphy, Howard, and Linse.
- Linsenmeyer, John Z.: *See*—  
Harris, Walter R., and Linsenmeyer.
- Linsker, Fred: *See*—  
Auchincloss, Reginald, and Linsker.
- Linsley, Charles A., St. Petersburg, Fla. Collapsible bed. 2,418,307; Apr. 1.
- Linstedt, William F., Freeport, Ill., assignor to Kraft Foods Company. Apparatus for distending prefabricated box covers and applying the same to filled boxes. 2,433,701; Dec. 30.
- Linthicum, Matilda B., executrix: *See*—  
Schaefer, James F.
- Linton, Thomas B., North Hollywood, Calif., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Accumulator. 2,421,076; May 27.
- Linton, William C., Washington, D. C., assignor to Fuse Indicator Corporation, Rockville, Md. Push-button switch. 2,415,297; Feb. 4.
- Linton, William C., Washington, D. C., assignor to Fuse Indicator Corporation, Rockville, Md. Slide button switch. 2,415,298; Feb. 4.
- Linton, William C., Washington, D. C., assignor to Fuse Indicator Corporation, Rockville, Md. Combined side mount fuse indicator and lock-in device. 2,415,299; Feb. 4.
- Linton, William C., Washington, D. C., assignor to Fuse Indicator Corporation, Rockville, Md. Illuminator for cover plates. 2,420,000; May 6.
- Linton, William C., Washington, D. C., assignor to Fuse Indicator Corporation, Rockville, Md. Illuminated escutcheon for electrical outlets. 2,428,167; Sept. 30.
- Linxwiler, Marion E.: *See*—  
Treadway, William I., and Linxwiler.
- Linzell, Harry K., Long Lake, assignor to United States Gypsum Company, Chicago, Ill. Incendiary composition. 2,424,937; July 29.
- Linzell, Harry K., Long Lake, Ill., H. E. Simpson, Pittsburgh, Pa., and M. C. Dailey, Elmhurst, assignors to United States Gypsum Company, Chicago, Ill. Process of making anhydrous calcium sulfate. 2,418,590; Apr. 8.
- Lion Oil Company, assignee: *See*—  
Allinson, John J.  
Hoiberg, Arnold J.
- Lion Oil Company, The, assignee: *See*—  
Odell, William W.
- Lipani, Joseph, assignor of one-half to V. Casella, Brooklyn, N. Y. Sash lock. 2,426,399; Aug. 26.
- Lippert, Hanns, and O. Schälkli, Zurich, assignors to Verwaltungsgesellschaft der Werkzeugmaschinenfabrik Oerlikon, Zurich-Oerlikon, Switzerland. Magazine for automatic firearms. 2,429,831; Oct. 28.
- Lippert, Paul, Chicago, Ill. Venetian blind. 2,422,915; June 24.
- Lippincott, Samuel B., Westfield, N. J., assignor to Standard Oil Development Company. Making 1,3-diols from olefins and aldehydes. 2,423,783; July 8.
- Lipsitz, Hazel M., Chicago, Ill. Garment hanger. 2,425,547; Aug. 12.
- Lipsius, Samuel, New York, N. Y. Purification of copals. 2,421,952; June 10.
- Lipsius, Sol T.: *See*—  
Buxton, Loran O., and Lipsius.
- Lipton, Morris, Rutherford, N. J., assignor to Sun Chemical Corporation. Variable width conveyor. 2,432,024; Dec. 2.
- Liquid Carbonic Corporation, The, assignee: *See*—  
Kantor, James.
- Liquidometer Corporation, The, assignee: *See*—  
De Giers, Clarence A.  
De Giers, Clarence A., and Edelman.
- Lis, Leon, West Hartford, and R. Horton, Groton, Conn., assignors to Aralac, Inc., New York, N. Y. Producing artificial proteinaceous fiber utilizing finely divided material in the coagulating bath. 2,432,776; Dec. 16.
- Lisenbee, Rayford, Winona, Miss. Convertible music stand. 2,423,034; June 24.
- Lish, Henry, Brookline, Mass. Gas heated embossing press. 2,419,271; Apr. 22.
- Liska, Raymond H., assignor to The Cleveland Universal Jig Company, Cleveland, Ohio. Broach carriage. 2,421,793; June 10.
- Lisle, John T., and J. B. Klamfoth, Lithopolis, Ohio. Hay baler. 2,417,309; Mar. 11.
- Lisle Mills, Inc., assignee: *See*—  
Lesavoy, Ely.
- Liss, August S., Chicago, and A. M. MacPheat, Brookfield, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Shearing apparatus. 2,413,980; Jan. 7.
- Lister, Donald A., Brunswick, Ga., assignor to Hercules Powder Company, Wilmington, Del. Terpene product and preparation thereof. 2,413,719; Jan. 7.
- Lister, Donald A., Brunswick, Ga., assignor to Hercules Powder Company, Wilmington, Del. Synthesis of terpene compounds. 2,413,720; Jan. 7.
- Lister, Walter: *See*—  
Del Debbio, Bruno, and Lister.
- Liston, Marcia B., assignee, et al.: *See*—  
Bucknell, Ernest H., and Bletcher.
- Little, Alfred E., assignor to Busch Precision Camera Corporation, Chicago, Ill. Photographic plateholder. 2,433,613; Dec. 30.
- Little, Arthur D., Inc., assignee: *See*—  
Eaton, Samuel E.  
Hervey, Laurence R. B.  
King, Gilbert W.  
Latham, Allen, Jr.  
Marek, Leroy F.  
McMahon, Howard O.
- Little, Charles H.: *See*—  
Little, Charles H. and C. H.
- Little, Charles H., Cleveland Heights, and C. H. Little, Cleveland, Ohio. Counterweighted parallel motion arm. 2,429,132; Oct. 14.
- Little, Donald G., Baltimore, and C. K. Hooper, Linthicum Heights, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Rectifier protective circuits. 2,431,261; Nov. 18.
- Little, Frederick B., Chicago, Ill. Mechanism for controlling electric circuits. 2,417,368; Mar. 11.
- Little, John B., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic recorder. 2,420,671; May 20.
- Little, John H., Huntington Woods, Mich., and W. J. Rady, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Thermal control device for storage batteries. 2,431,945; Dec. 2.
- Littlejohn, Robert L., Los Angeles, Calif. Automatic pressure and temperature control. 2,433,466; Dec. 30.
- Little, Lawrence: *See*—  
North, Gerald C., Alton, and Little.
- Little, Paul C., Hoboken, N. J., and M. W. Sparrow, Brooklyn, N. Y. Child's stroller. 2,425,253; Aug. 5.
- Little, William E., and William S. McKinstry, Richmond, Calif. Pitchometer attachment. 2,421,754; June 10.
- Little, William S., U. S. Army, Fort Belvoir, Va. Celestial navigation instrument. 2,415,433; Feb. 11.
- Littler, Clarence A., Maple Heights, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Pest control composition and method. 2,430,576; Nov. 11.
- Litton, Charles V., Redwood City, Calif., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Electron discharge device. 2,419,578; Apr. 29.
- Litton, Charles V., Redwood City, Calif., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Electron discharge device for high frequency. 2,431,337; Nov. 25.
- Litton, Felix B., assignor to Bendix Aviation Corporation, Detroit, Mich. Spark plug. 2,416,107; Feb. 18.
- Litzenberg, David P., assignor to Motor Parts Company, Philadelphia, Pa. Oil burner. 2,416,932; Mar. 4.
- Livadas, Louis, Springfield, Ohio. Dispenser with trap chamber operated by tilting the container. 2,428,233; Sept. 30.
- Livak, John E.: *See*—  
Britton, Edgar C., Livak, and Murray.  
Britton, Edgar C., Livak, and Vander Weele.
- Lively, Raymond O., St. Louis, Mo. Guy derrick. 2,432,528; Dec. 16.
- Livermore, Harvey J.: *See*—  
Lindner, Gordon F., and Livermore.
- Livers, Carlos B., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Selector valve mechanism. 2,425,380; Aug. 12.
- Livingston, James H., III: *See*—  
Trier, Carl L., and Livingston.
- Livingston, Mancill F., Phophetstown, Ill. Traffic signal for motor vehicles. 2,431,129; Nov. 18.
- Livingston, Myran J., Pelham, N. Y. Apparatus for refining lubricating oil. 2,419,579; Apr. 29.
- Livingston, Orrin W., Scotia, N. Y., assignor to General Electric Company. Apparatus for controlling electric motors. 2,421,632; June 3.
- Livingston, Ralph: *See*—  
Lange, Willy, and Livingston.
- Livingston, Seymour, New York, N. Y. Ejector fork. 2,420,710; May 20.
- Livingstone Engineering Company, assignee: *See*—  
Livingstone, Stanley.
- Livingstone, Stanley, Newton, Mass., assignor to Livingstone Engineering Company. Electric steam generator. 2,428,714; Oct. 7.
- Ljungberg, Ture: *See*—  
Hansson, Bror, and Ljungberg.
- Ljunggren, Thor H., Charlestown, N. H., assignor to Bryant Chucking Grinder Company, Springfield, Vt. Grinding machine. 2,429,830; Oct. 28.
- Ljunggren, Thor H., Charlestown, N. H., assignor to Bryant Chucking Grinder Company, Springfield, Vt. Work spindle mounting. 2,433,518; Dec. 30.
- Llewellyn, Frederick B., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge apparatus. 2,426,626; Sept. 2.
- Llewellyn, Frederick B., Verona, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,425,748; Aug. 19.
- Llovera, Federico, Barcelona, Spain. Automatic shuttle change mechanism for looms. 2,425,103; Aug. 5.
- Lloyd, Edward, Limited, assignee: *See*—  
Richards, Alfred A.



- Lloyd, Edward C., Silver Spring, Md. Pumping priming system. 2,428,373; Oct. 7.
- Lloyd, Jeannette, New York, N. Y. Thimble or finger protector. 2,432,579; Dec. 16.
- Lloyd, Lewis E.: *See—*  
Hornbacher, Herbert G., and Lloyd.
- Lloyd, Merton M., assignor to The Atlas Underwear Company, Piqua, Ohio. Undergarment. 2,416,108; Feb. 18.
- Lloyd, Peter, Camberley, assignor to Power Jets (Research and Development) Ltd., London, England. Apparatus for mixing fluids. 2,426,833; Sept. 2.
- Lloyd Products Company, assignee: *See—*  
Gasser, Frank P.
- Lloyd, Samuel, trustee, assignee, et al.: *See—*  
Hopkins, Nevil M.
- Lloyd, William D., assignee, et al.: *See—*  
Harmon, Luther R.
- Lloyds Bank Limited, assignee, et al., executor: *See—*  
Shawcross, George E.
- Loane, Clarence M., and J. W. Gaynor, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Froth flotation of sulfide ores with phosphorous-sulfide-olefin reaction product. 2,424,402; July 22.
- Lobb, John B., Southgate, London, England. Tracing device. 2,427,612; Sept. 16.
- Lobel, Maurice, San Francisco, Calif. Backless strapless bra. 2,428,572; Oct. 7.
- Lobel, Vera: *See—*  
Hirsh, Samuel B., and Lobel.
- Lobelle, Marcel J. O., assignor to Messrs. R. Malcolm Limited, Slough, England. Slidable and releasable hood for aircraft. 2,424,834; July 29.
- Lober, Konrad: *See—*  
Keller, John J., and Lober.
- Lobl, Frederick, Middleboro, Mass. Container. 2,413,721; Jan. 7.
- Lobl Manufacturing Company, The, assignee: *See—*  
Porter, Malcolm E.
- Lobl, Otto, assignor to Hero Mfg. Co., Inc., Middleboro, Mass. Yarn bobbin. 2,422,358; June 17.
- Lobley, Frederick A., W. T. Williams, and W. E. Lowell, assignors to Miles Laboratories, Inc., Elkhart, Ind. Conveyor for packaging machines. 2,424,103; July 15.
- Lochhead, John L., Springfield, Mass., assignor to the Government of the United States of America, as represented by the Secretary of War and his successors in office. Bolt lock for machine guns. 2,425,749; Aug. 19.
- Lochhead, John L., Springfield, Mass., assignor to United States of America, as represented by the Secretary of War. Cartridge feed system. 2,417,080; Mar. 11.
- Lock, Ritchie H., Chigwell, assignor to Howards & Sons Limited, Ilford, England. Manufacture of addition compounds of lactic acid salts with acetic acid. 2,420,255; May 6.
- Locke, Albert R., Oak Park, Ill. Arc welder control circuit. 2,432,529; Dec. 16.
- Locke, George A.: *See—*  
Branson, David E., Kinkade, Krecek, and Locke.
- Locke Insulator Corporation, assignee: *See—*  
Skipper, Edward M.
- Locke, Roy C., Salem, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of azo lakes. 2,418,416; Apr. 1.
- Lockheed Aircraft Corporation, assignee: *See—*  
Albert, Orrin W., and Webster.  
Bach, Loyal M.  
Beman, Ward W.  
Bloomfield, John J.  
Brown, Thomas T.  
Crot, Andre.  
Crot, Andre, and Richolt.  
Elkin, Hugh W.  
Farris, Michael O., O'Connor, and Gottschalk.  
Frazier, John E.  
Gibson, Elgen B., Jr., and Blakeman.  
Greenwald, Harold A.  
Hawkins, Willis M.  
Jansen, Harry B.  
Johnson, Clarence L.  
Knoll, Felix W. A.  
Price, Nathan C., and Greenwald.  
Richolt, Robert R.  
Rose, George W.  
Wassall, John B., and Wallace.  
Weible, Glenn B., and Burns.
- Lock Joint Pipe Company, assignee: *See—*  
Kennison, Hugh F.
- Lockridge, William R., administrator: *See—*  
Loughbridge, Matthew H.
- Lockwood, Edwin H.: *See—*  
Barnsteiner, Alfons, and Lockwood.
- Lockwood Manufacturing Company, The, assignee: *See—*  
Darnell, Jesse L.
- Locomotive Finished Material Company, The, assignee: *See—*  
Smith, Charles C.
- Lodding Engineering Corporation, assignee: *See—*  
Goyette, Francis H.
- Loder, Donald J.: *See—*  
Dittmar, Harry R., and Loder.  
Larson, Alfred T., and Loder.
- Loder, Donald J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of ethyleneurea. 2,425,627; Aug. 12.
- Loder, Donald J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. N-alkyl-di (beta-(alkoxy-methoxy) alkyl) amines and preparing. 2,429,886; Oct. 28.
- Loder, Donald J., and W. M. Bruner, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of aminocetals. 2,425,628; Aug. 12.
- Loder, Alvin, Detroit, Mich., assignor to American Viscose Corporation, Wilmington, Del. Apparatus for the fluid treatment of yarns and the like. 2,424,403; July 22.
- Lodge, Frank, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Anthraquinone dyestuffs. 2,414,155; Jan. 14.
- Lodwig, Erwin, Franklin Square, assignor to Mobile Refrigeration, Inc., Long Island City, N. Y. Electrical method of mechanically connecting and mutually insulating spaced metal elements. 2,419,149; Apr. 15.
- Loe, Justin B., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Low-voltage river heater. 2,432,580; Dec. 16.
- Loeb, Carl, Chicago, Ill. Camera film cutoff and storage device. 2,420,046; May 6.
- Loeb, Henry D., assignor to Shell Development Company, San Francisco, Calif. Catalytic treatment of hydrocarbons. 2,432,912; Dec. 16.
- Loeb, Lawrence A., New Haven, Conn. Cabinet for dish-washing machines. 2,428,573; Oct. 7.
- Loeb, Moritz, New York, N. Y. Merchandise display card. 2,424,762; July 29.
- Loeffer, Henry S., and G. V. Guerin, Jr., St. Paul, Minn. Train order stand. 2,427,645; Sept. 16.
- Loevenstein, Hirsch, New York, N. Y., assignor to The Nitralloy Corporation. Furnace for reducing and distilling volatile metals. 2,432,111; Dec. 9.
- Loewe, Peter L., Chicago, Ill., assignor to G. F. Goodson, Detroit, Mich. Cylinder structure. 2,426,108; Aug. 19.
- Loewen, Walter A.: *See—*  
Peterson, Vincent C. J., and Loewen.
- Lofgren, Charles G., and V. H. Salinas, Denver, Colo. Emergency tire chain for trucks. 2,433,567; Dec. 30.
- Lofgren, Charles W.: *See—*  
Hofeldt, George J., and Lofgren.
- Lofgren, Einar G., Minneapolis, Minn. Electrical induction boiler. 2,427,361; Sept. 16.
- Lofgren, Gustaf E., Riverside, Conn., assignor to Electro-lux Corporation, New York, N. Y. Vacuum cleaner. 2,418,130; Apr. 1.
- Lofgren, John A.: *See—*  
Broadbent, John H., and Lofgren.
- Lofstrom, Algot T., Iron Mountain, Mich. Recording device including rotatable number carrying rings. 2,421,513; June 3.
- Lofton, William M., Jr., Butler, assignor to Pennsylvania Coal Products Company, Petrolia, Pa. Purifying chloroacetophenone. 2,414,418; Jan. 14.
- Loftus, Fred H., Mount Lebanon, Pa. Industrial furnace. 2,420,962; May 20.
- Logan, Frank G., Mount Vernon, N. Y., assignor to Ward Leonard Electric Company. Electric controlling apparatus. 2,432,244; Dec. 9.
- Logan, Joseph A.: *See—*  
Leitch, Walter C., and Logan.
- Logsdon, Harry, Newton, Iowa. Mail box. 2,420,084; May 6.
- Logue, Leland H., assignor to Mining Process and Patent Company, Denver, Colo. Multiple-stage froth flotation. 2,423,456; July 8.
- Lohr, Raymond J., Erie, Pa. Target. 2,427,010; Sept. 9.
- Lohrke, James L., Thornbury Township, Delaware County, Pa. Process and apparatus for producing staple fibers. 2,419,320; Apr. 22.
- Lohse, Ora F., Helena, Mont., assignor to Deere & Company, Moline, Ill. Jacking device for harvester reels and the like. 2,414,958; Jan. 28.
- Loiselle, Edmond W., Marieville, R. I. Sewing machine feed device. 2,427,467; Sept. 16.
- Lomax, John W., San Francisco, Calif. Safety razor. 2,413,877; Jan. 7.
- Lombard, Herman, U. S. Navy. Quick disconnect hook. 2,427,362; Sept. 16.
- Lombard, Herman, U. S. Navy. Connector for rods, stanchions, and the like. 2,427,681; Sept. 23.
- Lombard, Herman, U. S. Navy. Removable mounting installation. 2,431,698; Dec. 2.
- Lombardi, Leo, Los Angeles, Calif. Bathtub cleaning means. 2,430,297; Nov. 4.
- Lombardo, Frank, Kansas City, Mo. Automatic bag sewing machine. 2,422,426; June 17.
- London, Jack L., New York, N. Y. Radial cutter. 2,427,011; Sept. 9.
- Loneragan, J. E., Company, assignee: *See—*  
Bergquist, Theodore W.
- Loney, Harley C., Company, assignee: *See—*  
Kalajian, Harry J.
- Long, Armistead R., Fayetteville, W. Va., and J. B. Long, U. S. Navy, Washington, D. C. Conveyor. 2,420,083; May 6.
- Long, Bernard, Paris, France; vested in the Alien Property Custodian. Tempering glass sheets. 2,413,722; Jan. 7.
- Long, Douglas P., Chislehurst, assignor to Siemens Brothers & Co. Limited, London, England. Rotary type selector switch for automatic telephone systems. 2,416,109; Feb. 18.



- Long, Floyd E., Tarpon Springs, Fla. Releasing grappling hook or anchor. 2,424,040; July 15.
- Long, Frederick F.: *See—*  
Miles, John A., Long, and Giles.
- Long, George A., Harrisburg, Pa. Baby's bib. 2,430,941; Nov. 18.
- Long, George W.: *See—*  
Lowe, Sherwin P., Reikie, Kent, and Long.
- Long, Herbert J., assignor to H. and M. Bramson, co-partners doing business under the name and style of Acme Laboratory Equipment Co., New York, N. Y. Liquid heater. 2,433,134; Dec. 23.
- Long, Herman C., Johnson City, Tenn. Paint brush holder. 2,420,487; May 13.
- Long, J. G., assignee: *See—*  
Clair, Louis C.
- Long, John A., assignor to Combustion Control Corporation, Cambridge, Mass. Optical safety device. 2,418,845; Apr. 15.
- Long, John B.: *See—*  
Long, Armistead R. and J. B.
- Long, John R.: *See—*  
Clifford, Albert M., and Long.
- Long, John R., Stow, assignor to Wingfoot Corporation, Akron, Ohio. Butadiene-alpha chlorocrotonate copolymer. 2,432,480; Dec. 9.
- Long, Kenneth E., South Euclid, and H. W. Cromer, Cleveland, assignors to The Harshaw Chemical Company, Elyria, Ohio. Porous sodium fluoride pellet and making same. 2,426,557; Aug. 26.
- Long, Kenneth E., South Euclid, and H. W. Cromer, Cleveland, assignors to The Harshaw Chemical Company, Elyria, Ohio. Removal of hydrogen fluoride from non-aqueous fluids and porous body for use in such process. 2,426,558; Aug. 26.
- Long, Ralph M., Biggs Field, assignor of twelve and one-half per cent to H. P. Talley and forty-three and three-fourths per cent to T. Bates, El Paso, Tex. Dispensing cigarette case and lighter. 2,419,409; Apr. 22.
- Long, Robert S., Somerville, and C. M. Hofmann, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Preparation of allylglycine. 2,425,283; Aug. 5.
- Long, Sidney L., Minneapolis, Minn. Toy. 2,420,181; May 6.
- Long, Sidney L., Minneapolis, Minn. Folding table. 2,426,514; Aug. 26.
- Long, Thomas H., assignor to C. G. Conn, Ltd., Elkhart, Ind. Apparatus for measuring the dwell and frequency of electrical impulses. 2,423,194; July 1.
- Long, Thomas H., assignor to C. G. Conn, Ltd., Elkhart, Ind. Multichannel radio telemetering system. 2,426,778; Sept. 2.
- Longden, Eric, Greenside, Johannesburg, Transvaal, Union of South Africa. Clip for flexible tubes. 2,423,195; July 1.
- Longenecker, Charles L., Wauwatosa, assignor to Chain Belt Company, Milwaukee, Wis. Grouting attachment for concrete pumps. 2,432,671; Dec. 16.
- Longfellow, Charles F., Bloomfield, and A. O. Jackson, Nutley, assignors to G. W. Carnrick Company, Newark, N. J. Hydroxy substituted triphenyl vinyl halides. 2,429,556; Oct. 21.
- Longfellow, Earl E., assignor to H. H. Leiter, Warsaw, Ind. Fracture reduction apparatus. 2,414,882; Jan. 28.
- Longini, Richard L., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Conversion system. 2,431,262; Nov. 18.
- Longley, Kermit, Philadelphia, assignor to Quaker Chemical Products Corp., Conshohocken, Pa. Ester derivatives of lignin sulphonates. 2,419,783; Apr. 29.
- Longley, Raymond I., Jr., Stamford, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Nickel catalyst and preparing it. 2,433,614; Dec. 30.
- Longmaid, Sydney E., Rosemont, Pa., assignor to The Esterbrook Pen Company, Camden, N. J. Writing implement. 2,430,023; Nov. 4.
- Longren Aircraft Company, assignee: *See—*  
Peterson, Albin K.
- Longstreet, Arthur H., deceased, Brooklyn, N. Y.; M. A. Longstreet, executrix. Device to facilitate mounting specimens on microscope slides. 2,417,802; Mar. 18.
- Longstreet, Mirian A., executrix: *See—*  
Longstreet, Arthur H.
- Longworth, John, Haddon Heights, N. J. Stem lock for dial gauges. 2,415,105; Feb. 4.
- Look, Henry J., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Gage for measuring the wall thickness of annular bearing members. 2,420,711; May 20.
- Lookholder, Alex E., La Grange, Ill. Magnetic holder for brushes and other articles. 2,414,653; Jan. 21.
- Loomis, Crawford C., Iilon, N. Y., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Extractor-ejector for firearms. 2,415,952; Feb. 18.
- Loomis, Crawford C., Iilon, N. Y., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Firing pin supporting means for firearms. 2,425,434; Aug. 12.
- Loomis, Evarts G., Newark, N. J. Press. 2,417,697; Mar. 18.
- Loomis, Oliver H., Iilon, N. Y., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Breech bolt lock for firearms. 2,418,946; Apr. 15.
- Loonin, Hyman H., assignor of one-half to A. Lindower, Brooklyn, N. Y. Cigarette dispenser. 2,426,890; Sept. 2.
- Loos, Robert J., Sterling, assignor to Reynolds Wire Co., Dixon, Ill. Shuttle bobbin take-up mechanism. 2,417,941; Mar. 25.
- Loose, Kenneth D., Bronxville, N. Y., and C. W. Watkins, Dayton, Ohio, assignors to Loose-Wiles Biscuit Company. Conveyor for bakers' ovens. 2,429,100; Oct. 14.
- Loose-Wiles Biscuit Company, assignee: *See—*  
Loose, Kenneth D., and Watkins.
- Loper, George B., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Seismic wave detector. 2,428,168; Sept. 30.
- Lopes, Manuel A., Vallejo, Calif. Chain. 2,419,321; Apr. 22.
- Lopes, Manuel A., Vallejo, Calif. Collapsible stool. 2,425,196; Aug. 5.
- Lopez, Francisco G., Buenos Aires, Argentina, assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y. Manufacture of gaseous discharge tubes. 2,415,895; Feb. 18.
- Lopez-Irizarry, Ramon, San Juan, Puerto Rico. Food product. 2,426,834; Sept. 2.
- Lopez, Leandro G., Habana, Cuba. Metallic safety bar for doors. 2,421,275; May 27.
- Lorain Products Corporation, assignee: *See—*  
Huge, Henry M.
- Lorber, Charles, Louisville, Ky. Self-quiz device. 2,422,491; June 17.
- Lord, Arthur H., Jr., Houston, Tex., assignor to The Texas Company, New York, N. Y. Radiation detector quenching circuit. 2,418,892; Apr. 15.
- Lord, Arthur H., Jr., Houston, Tex., assignor to The Texas Company, New York, N. Y. Voltage control and stabilizing circuits. 2,419,496; Apr. 22.
- Lord, Benjamin C., Valley Stream, N. Y., assignor, by mesne assignments, to Farnsworth Research Corporation. Radio communication checking system. 2,433,281; Dec. 23.
- Lord, Francis L., Bloomfield, assignor to Titelox Manufacturing Company, Montclair, N. J. Sealing device. 2,422,248; June 17.
- Lord, Harold W., Schenectady, N. Y., assignor to General Electric Company. Self-pulsing oscillator. 2,417,834; Mar. 25.
- Lord, Harold W., Schenectady, N. Y., assignor to General Electric Company. Electric circuits. 2,424,104; July 15.
- Lord, Harold W., Schenectady, N. Y., assignor to General Electric Company. Pulse generating circuit. 2,429,471; Oct. 21.
- Lord, Harold W., Schenectady, N. Y., assignor to General Electric Company. Self-pulsing oscillator. 2,433,282; Dec. 23.
- Lord Manufacturing Company, assignee: *See—*  
Kaemmerling, Gustav H.  
Strachovsky, Nikita B.
- Lore, Harry, assignee, et al.: *See—*  
Dugan, Kenneth.
- Lorentzen Hardware Mfg. Corp., assignee: *See—*  
Nelson, Harry H.
- Lorenz, Anton, Buffalo, N. Y. Adjustable reclining chair. 2,429,633; Oct. 28.
- Lorenz, Anton, Buffalo, N. Y. Adjustable reclining chair. 2,430,577; Nov. 11.
- Lorenz, Anton, Buffalo, N. Y. Adjustable reclining chair. 2,433,519; Dec. 30.
- Lorenz, Anton, Buffalo, N. Y. Reclining article of furniture. 2,433,520; Dec. 30.
- Lorenz, Anton, Buffalo, N. Y. Reclining article of furniture. 2,433,521; Dec. 30.
- Lorenz, Henry W., Bayside, N. Y. Collapsible gasoline tank. 2,432,025; Dec. 2.
- Lorenz, Vincent C., assignor of one-fourth to C. W. Morse, Anaconda, Mont. Automatic sampling apparatus. 2,423,242; July 1.
- Lorenzen, Thomas C., Choteau, Mont. Dust removing attachment for grain elevators. 2,415,503; Feb. 11.
- Loriaux, Maurice L., Bartlesville, Okla. Religious ornament. 2,431,055; Nov. 18.
- Lorraine, David G., La Canada, assignor of seven and one-half per cent to H. W. Elliott, Los Angeles, Calif. Valve. 2,414,749; Jan. 21.
- Lorraine, David G., La Canada, assignor of seven and one-half per cent to H. W. Elliott, Los Angeles, Calif. Valve. 2,420,785; May 20.
- Los Angeles Paper Box Factory, assignee: *See—*  
Adams, Floyd W.
- Loose, Eugene, Hebron, Ill., assignor to Loose Products Co. Displacement-type electric water heater. 2,422,492; June 17.
- Loose, Kathryn: *See—*  
Lott, William A., Loose, and O'Keeffe.
- Loose Products Co., assignee: *See—*  
Babson, Henry B., and Thomas.
- Loose, Eugene W.
- Lott, William A., Maplewood, N. J., assignor to E. R. Squibb & Sons, New York, N. Y. Composition comprising colloidal silver salt of sulfa drug. 2,422,688; June 24.



- Lott, William A., Maplewood, K. A. Losee, New Brunswick, N. J., and A. E. O'Keeffe, U. S. Army, assignors to E. R. Squibb & Sons, New York, N. Y. N<sup>4</sup>(mercapto-acyl)-(p-amino-benzene-sulfonamides) and preparing same. 2,418,947; Apr. 15.
- Lotz, Homer W., assignor to Lotz Industrial Research Center, Detroit, Mich. Tool for inserting cylinder liners. 2,421,276; May 27.
- Lotz Industrial Research Center, assignee: *See*—  
Lotz, Homer W.
- Lotz, Leonard C.: *See*—  
Tuerff, Arthur, and Lotz.
- Lotz, Rudolph W., assignee, et al.: *See*—  
Cowles, Irving.
- Loucks, Fred B., Jr., Milwaukee, Wis. Oxy-acetylene cutting machine. 2,414,750; Jan. 21.
- Louden, Harry L., Cleveland, Ohio, assignor to General Electric Company. Electronic discharge device. 2,422,427; June 17.
- Loudenslager, Oscar W., and J. E. Wilson, assignors to Wingfoot Corporation, Akron, Ohio. Gas impervious fabric. 2,431,056; Nov. 18.
- Louft, Nathan, Silver Spring, Md. Screen stencil machine with traveling orbital inker. 2,421,210; May 27.
- Lougee, E. F., assignee, et al.: *See*—  
Delmonte, John.
- Loughin, Paul R.: *See*—  
Rowand, Will H., Schueler and Loughin.
- Loughlin, Bernard D.: *See*—  
Hansen, John A., and Loughlin.
- Loughlin, Bernard D., Bayside, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Wave-signal translating system. 2,415,359; Feb. 4.
- Loughlin, Bernard D., Bayside, N. Y., assignor by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Radiant-energy signal direction finder. 2,429,519; Oct. 21.
- Loughlin, Bernard D., Bayside, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Position-indicating arrangement. 2,432,026; Dec. 2.
- Loughren, Arthur V., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Wave-signal translating system. 2,420,753; May 20.
- Loughren, Arthur V., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Position-indicating device. 2,428,427; Oct. 7.
- Loughridge, Matthew H., deceased, Bogota, N. J.; W. R. Lockridge, administrator. Coding and decoding system. 2,414,472; Jan. 21.
- Loughridge, Matthew H., deceased, Bogota, N. J.; W. R. Lockridge, administrator. Variable letter-spacing device for typewriters. 2,418,474; Apr. 8.
- Loumiet et Lavigne, Jean, Itabo, Cuba. Steam boiler regulating system. 2,423,397; July 1.
- Loungee, E. F., assignee, et al.: *See*—  
Delmonte, John.
- Love, Mark P. L.: *See*—  
Appleby, Walter G., Lovell, and Love.
- Lovejoy, Charles K., Needham, assignor to The Moore Pen Company, Boston, Mass. Fountain pen. 2,432,112; Dec. 9.
- Loveless, Donald L., Baltimore, Md., assignor, by mesne assignments, to The American Rolling Mill Company, Middletown, Ohio. Production of stainless steel. 2,430,131; Nov. 4.
- Lovell Chemical Company, assignee: *See*—  
Lovell, Stanley P.
- Lovell, Clarence A., Summit, and J. F. Müller, Montclair, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Potentiometer circuit. 2,417,425; Mar. 18.
- Lovell, John B.: *See*—  
Fuqua, Mack C., and Lovell.
- Lovell, Lawrence L.: *See*—  
Appleby, Walter G., Lovell, and Love.
- Lovell, Stanley P., Newtonville, assignor to Lovell Chemical Company, Watertown, Mass. Splint and the like. 2,419,358; Apr. 22.
- Lovell, Stanley P., Newtonville, and W. H. Lehmberg, Newton Center, Mass., assignors to Beckwith Manufacturing Company, Dover, N. H. Making gas masks. 2,415,391; Feb. 4.
- Lovell, Wheeler G.: *See*—  
Miller, Verle A., and Love<sup>1</sup>
- Lovely, John E., Springfield, Vt., assignor, by mesne assignments, to United States of America. Machine for rifling gun barrels. 2,415,300; Feb. 4.
- Lovely, John E., assignor to Jones & Lamson Machine Company, Springfield, Vt. Profile milling machine. 2,420,547; May 13.
- Lovely, John E., assignor to Jones & Lamson Machine Company, Springfield, Vt. Two-speed drive mechanism. 2,423,243; July 1.
- Lovely, John E., assignor to Jones & Lamson Machine Company, Springfield, Vt. Power-operated chuck. 2,423,244; July 1.
- Lovick, John B., Glendale, assignor to Allied Appliance Co., Los Angeles, Calif. Concentric thread gauge. 2,425,381; Aug. 12.
- Loving, George H.: *See*—  
Burrows, Lawton A., Loving, Nydegger, and Smith.
- Loving, William, Pampa, Tex., assignor to Godfrey L. Cabot, Inc., Boston, Mass. Apparatus for the manufacture of carbon black. 2,418,475; Apr. 8.
- Lovstrom, Nils T., Malden, Mass. Drill grinding tool. 2,417,116; Mar. 11.
- Low, Frank S., Bronxville, assignor to Westvaco Chlorine Products Corporation, New York, N. Y. Preparation of pure phosphoric acid. 2,415,797; Feb. 11.
- Low, John J., Los Angeles, Calif., assignor to Kay-Brunner Steel Products, Inc. Brake. 2,419,784; Apr. 29.
- Lowe, Beatrice M., assignee, et al.: *See*—  
Lowe, Richard R.
- Lowe, Clifford O., assignee, et al.: *See*—  
Lowe, Richard R.
- Lowe, John F., Baltimore, Md., assignor to The B. V. D. Corporation, New York, N. Y. Collar. 2,433,522; Dec. 30.
- Lowe, Paul E., and O. A. Ross, Salt Lake City, Utah, assignors to Remington Arms Company, Inc., Bridgeport, Conn. Extractor for firearms. 2,415,953; Feb. 18.
- Lowe, Richard R., San Francisco, Calif., assignor to B. M. Lowe, R. M. Jacobs, C. O. Lowe, H. A. Berg, and himself, as joint tenants. Extension table slide assembly. 2,414,959; Jan. 28.
- Lowe, Richard R., San Francisco, Calif., assignor to B. M. Lowe, R. M. Jacobs, C. O. Lowe, H. A. Berg, and himself, as joint tenants. Extension table slide assembly. 2,417,257; Mar. 11.
- Lowe, Russell E.: *See*—  
Morgan, John D., and Lowe.
- Lowe, Sherwin P., M. K. T. Reikie, G. H. Kent, and G. W. Long, Flin Flon, Manitoba, assignors to Hudson Bay Mining and Smelting Company Limited, Winnipeg, Manitoba, Canada. Alloy anode for electrodeposition of zinc. 2,419,722; Apr. 29.
- Lowe, Wesley G., assignor to Eastman Kodak Company, Rochester, N. Y. Preparation of photographic emulsions with polyvinyl acetate having a high acetyl content. 2,414,207; Jan. 14.
- Loweke, Erwin F., Jackson, Mich., assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio. Hydraulic brake. 2,423,331; July 1.
- Lowell and Grayson Manufacturing Company, assignee: *See*—  
Grayson, John H.
- Lowell, Percival D., Chevy Chase, Md. Remote control system. 2,424,243; July 22.
- Lowell, Rudolph L., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Liquid fuel preparing apparatus. 2,415,748; Feb. 11.
- Lowell, Walter E.: *See*—  
Lobley, Frederick A., Williams, and Lowell.
- Lowenheim, Frederick A., Westfield, N. J., and M. M. Sternfels, Waterbury, Conn., assignors to Metal and Thermit Corporation, New York, N. Y. Tin plating from potassium stannate baths. 2,424,472; July 22.
- Lowenstein, Hirsch: *See*—  
Gottesmann, Uscha, and Lowenstein.
- Lowenthal, Benno, London, England. Pyrophoric lighter. 2,433,467; Dec. 30.
- Lower, Nathan M., Erie, Pa. Steam boiler. 2,419,150; Apr. 15.
- Lowery, Ellis H., Bernice, La. Wire clamp for stretching wire. 2,425,548; Aug. 12.
- Lowey, Roy E., Evanston, and J. L. Ferguson, Joliet, assignors to Container Corporation of America, Chicago, Ill. Apparatus for sealing containers. 2,425,067; Aug. 5.
- Lowry, Raymond A.: *See*—  
Birch, Stanley F., and Lowry.
- Lowy, Robert, Philadelphia, Pa., assignors to The Baldwin Locomotive Works. Seal for hydraulic turbines and pumps. 2,421,841; June 10.
- Lov, John G., assignor to Porcelain Products, Inc., Findlay, Ohio. Outlet box securing means. 2,430,067; Nov. 4.
- Luaces, Enrique L., assignor to Chemical Developments Corporation, Dayton, Ohio. Adsorption apparatus. 2,413,771; Jan. 7.
- Luaces, Enrique L., assignor to The Dayton Rubber Manufacturing Company, Dayton, Ohio. Spinning cot. 2,426,227; Aug. 26.
- Luaces, Enrique L., assignor, by mesne assignments, to Chemical Developments Corporation, Dayton, Ohio. Ventilation including the removal of solvent vapor by adsorption. 2,428,885; Oct. 14.
- Luaces, Enrique L., and M. A. Crosby, Dayton, Ohio, assignors to The Dayton Rubber Company. V-belt having metallic neutral axis. 2,430,024; Nov. 4.
- Lubbehusen, Raymond E., Webster Groves, assignor to Ralston Purina Company, St. Louis, Mo. Santonin-phenothiazine vermifuge. 2,422,106; June 10.
- Lubbert, Carl B., Anneslie, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for advancing strip material. 2,425,382; Aug. 12.
- Lubbert, Carl B., Anneslie, and C. Rozanek, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Mold. 2,425,832; Aug. 19.
- Lubelsky, Benjamin L., Elkton, Md., and R. E. Hartline, Tulsa, Okla., assignors to Mine Safety Appliances Company, Pittsburgh, Pa. Protective device for blasting circuit. 2,428,334; Sept. 30.
- Luben, Raymond R., Shelton, and E. C. Ford, Woodbridge, Conn. Self-centering awl. 2,423,511; July 8.



- Lubertine, Anthony J., Baltimore, Md., assignor to Pemco Corporation. Production of vitreous enamel opacifier. 2,427,682; Sept. 23.
- Luboshez, Benjamin E., assignor to Eastman Kodak Company, Rochester, N. Y. Method and apparatus for grinding and polishing surfaces. 2,415,646; Feb. 11.
- Luboshez, Benjamin E., assignor to Eastman Kodak Company, Rochester, N. Y. Apparatus for abrading surfaces. 2,423,715; July 8.
- Luboshez, Benjamin E., assignor to Eastman Kodak Company, Rochester, N. Y. Gyroscopic stabilizer. 2,432,430; Dec. 9.
- Lubri-Zol Corporation, The, assignee: *See*—  
Knutson, Amos T., and Graves.  
Putton, Carl F.
- Luburg, Guy A.: *See*—  
Trimbach, Clem G., Luburg, and Lemonier.
- Luby, Charles H., Philadelphia, Pa. Projectile flare. 2,427,917; Sept. 23.
- Lucas, Joseph, Limited, assignee: *See*—  
Ifield, Richard J.
- Laird, John A.  
Silman, Harold, and Stein.  
Watson, Ernest A., and Ifield.
- Luce, Alfred N.: *See*—  
Depew, Charles, Depp, and Luce.  
Depew, Charles, Depp, Luce, and Haynes.
- Luce, Richard W., Southport, Conn. Reflective sign. 2,421,277; May 27.
- Luce, Richard W., Southport, Conn. Nut structure. 2,421,278; May 27.
- Luce, Richard W., Southport, Conn. Threaded locking device and making same. 2,425,104; Aug. 5.
- Luce, Richard W., Southport, Conn. Threaded locking device. 2,428,463; Oct. 7.
- Luce, Richard W., Southport, Conn. Making threaded locking devices. 2,429,832; Oct. 28.
- Luce, Richard W., Southport, Conn. Fastening means. 2,429,833; Oct. 28.
- Luce, Stewart B.: *See*—  
Webber, Charles S., Luce, and Murdock.
- Lucero, Juan D., Mendoza, Argentina. Fruit juice concentrator. 2,423,035; June 24.
- Luchansky, Andrew J., Bridgeport, Conn. Device for winding up webbing from looms. 2,431,130; Nov. 18.
- Lucia, Francis A., Brooklyn, N. Y. Tool and handle set. 2,424,404; July 22.
- Lucien, René, Farnham Common, England. Powered vehicle of connected sections. 2,425,948; Aug. 19.
- Luck, David G. C., Merchantville, N. J., assignor to Radio Corporation of America. Radio direction finding. 2,413,981; Jan. 7.
- Luck, David G. C., Merchantville, N. J., assignor to Radio Corporation of America. Direction finder. 2,413,982; Jan. 7.
- Luck, David G. C., Merchantville, N. J., assignor to Radio Corporation of America. Radio direction finding. 2,415,954; Feb. 18.
- Luck, David G. C., Merchantville, N. J., assignor to Radio Corporation of America. Radio direction finding. 2,415,955; Feb. 18.
- Luck, David G. C., Merchantville, N. J., assignor to Radio Corporation of America. Radio direction finder. 2,417,310; Mar. 11.
- Luck, David G. C., Merchantville, N. J., assignor to Radio Corporation of America. Radio direction finder. 2,418,308; Apr. 1.
- Luck, David G. C., Merchantville, N. J., assignor to Radio Corporation of America. Radio direction finder. 2,422,107; June 10.
- Luck, David G. C., Merchantville, N. J., assignor to Radio Corporation of America. Radio direction finding. 2,422,108; June 10.
- Luck, David G. C., Merchantville, N. J., assignor to Radio Corporation of America. Radio direction finding. 2,422,109; June 10.
- Luck, David G. C., Princeton, N. J., assignor to Radio Corporation of America. Variable resistor device. 2,417,311; Mar. 11.
- Luck, David G. C., Princeton, N. J., assignor to Radio Corporation of America. Radio bomb release system. 2,433,284; Dec. 23.
- Luck, David G. C., Hightstown, N. J., assignor to Radio Corporation of America. Navigational position plotting. 2,422,025; June 10.
- Luck, David G. C., Hightstown, N. J., assignor to Radio Corporation of America. Radio direction finding. 2,422,026; June 10.
- Luck, David G. C., Hightstown, N. J., assignor to Radio Corporation of America. Omnidirectional radio range. 2,422,110; June 10.
- Luck, David G. C., Hightstown, N. J., assignor to Radio Corporation of America. Radio direction finding. 2,425,383; Aug. 12.
- Luck, David G. C., Hightstown, N. J., assignor to Radio Corporation of America. Radio position indicating system. 2,427,219; Sept. 9.
- Luck, David G. C., Hightstown, N. J., assignor to Radio Corporation of America. Radio position indicating system. 2,427,220; Sept. 9.
- Luck, David G. C., Hightstown, N. J., assignor to Radio Corporation of America. Radio direction finder. 2,432,777; Dec. 16.
- Luck, David G. C., Hightstown, N. J., assignor to Radio Corporation of America. Bearing indicating device. 2,432,778; Dec. 16.
- Luck, David G. C., Hightstown, N. J., assignor to Radio Corporation of America. Radio position finding. 2,433,283; Dec. 23.
- Luckey, George P., assignor to Hamilton Watch Company, Lancaster, Pa. Olivine jewels. 2,419,687; Apr. 29.
- Luckey, George P., and T. R. Schwalm, Lancaster Township, Lancaster County, assignor to Hamilton Watch Company, Lancaster, Pa. Surfacing small parts. 2,424,835; July 29.
- Luckton, Walter, Cloverdale, British Columbia, Canada. Rodent trap. 2,427,148; Sept. 9.
- Ludelfs, Henry R. H., Grosse Pointe Woods, Mich. Fire escape. 2,419,359; Apr. 22.
- Ludeman, Clifford G., Scarsdale, assignor to Texaco Development Corporation, New York, N. Y. Preparation of oxygenated compounds from olefins. 2,425,119; Sept. 30.
- Ludeman, Oscar H., New York, N. Y., assignor to Skinner Engine Company, Erie, Pa. Valve. 2,414,751; Jan. 21.
- Ludlow, John H.: *See*—  
Dodds, John M., and Ludlow.
- Ludwig, Bernard J., Bloomfield, and F. C. Schmelkes, Montclair, N. J., assignors to Wallace & Tiernan Products Inc. Azo benzene 4,4'-disulfonamido thiazole. 2,426,313; Aug. 26.
- Ludwig, Carl L., Los Angeles, Calif. Calculating device. 2,418,948; Apr. 15.
- Ludwig, Johannes P., assignor to Phoenix Hosiery Company, Milwaukee, Wis. Knitting machine. 2,430,882; Nov. 18.
- Ludwig, Leon R., Wilkinsburg, H. J. Webb, Forest Hills, and B. P. Baker, Turtle Creek, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,428,575; Oct. 7.
- Ludwig, Norman C.: *See*—  
Andes, Ralph V., and Ludwig.
- Ludwig, Norman C., Chicago, Ill., assignor to Universal Atlas Cement Company. Retarded cement and making. 2,427,683; Sept. 23.
- Luebben, Umno F., Omaha, Nebr. Pick-up conveyer. 2,414,823; Jan. 28.
- Luebbers, Herman E., Fort Dodge, Iowa. Tractor attachment mechanism. 2,415,014; Jan. 28.
- Luehrs, Hans J., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Sheet cutting and creasing press. 2,425,039; Aug. 5.
- Luehrs, Hans J., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Sheet cutting and creasing press. 2,425,040; Aug. 5.
- Luehrs, Hans J., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Sheet cutting and creasing press. 2,425,041; Aug. 5.
- Luers, John M., assignor to John Milton Luers Patents Incorporated, Mount Clemens, Mich. Cut-off blade. 2,424,041; July 15.
- Luers, John M., assignor to John Milton Luers Patents Incorporated, Mount Clemens, Mich. Cutting-off blade. 2,424,473; July 22.
- Luers, John M., Patents Incorporated, assignee: *See*—  
Luers, John M.
- Luff, Ralph G., assignee: *See*—  
Hutchison, Miller R.
- Lufkin Rule Company, The, assignee: *See*—  
Witchger, Eugene J.
- Luger, Kenneth E., assignee, et al.: *See*—  
Anderson, Ernest.
- Luhn, Hans P., Armonk, assignor to International Business Machine Corporation, New York, N. Y. Multiple circuit connector of the plug type. 2,417,369; Mar. 11.
- Luhn, Hans P., Armonk, assignor to International Business Machines Corporation, New York, N. Y. Entry retaining device for totalizers. 2,424,322; July 22.
- Luhn, Hans P., Armonk, assignor to International Business Machines Corporation, New York, N. Y. Calculation checking device. 2,425,549; Aug. 12.
- Luke, Elmer L.: *See*—  
Tuve, Richard L., White and Luke.
- Luker, Jackson M., Champaign County, Ill. Brushing mechanism for cleaning tubular pans. 2,430,132; Nov. 4.
- Luley, John C., Teaneck, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. X-ray analysis apparatus. 2,432,913; Dec. 16.
- Lull, Le Grand H., Minneapolis, Minn. Loader. 2,415,015; Jan. 28.
- Lum, George R., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sectional telephone stall. 2,427,012; Sept. 9.
- Lum, John C., Union, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Liquid coating compositions and coated fibrous containers. 2,414,540; Jan. 21.
- Lum, John C., Union, and G. W. Jernstedt, Belleville, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Method and composition for etching metal. 2,428,464; Oct. 7.
- Lumb, Charles F., Kingston Hill, and F. G. W. Spears, Potters Bar, England. Tube cleaning apparatus for boilers and the like. 2,432,027; Dec. 2.



- Lummus Company, The, assignee: *See*—  
Bertram, Edward A.  
Davis, Hyman R.  
Schutte, August H.  
Worn, George A., and Bertram.  
Lummus Cotton Gin Company, assignee: *See*—  
Grimes, Thaddeus S.
- Lundberg, Charles, Brooklyn, N. Y. Adjustable engineering curve. 2,424,042; July 15.
- Lundberg, Frank J., New York, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Four course beacon. 2,429,634; Oct. 28.
- Lundberg, Roland O., Chicago, Ill. Cutoff saw. 2,422,111; June 10.
- Lundblad, Oscar W., Ishpeming, Mich., assignor to Hercules Powder Company, Wilmington, Del. Lowering device. 2,420,182; May 6.
- Lunde, Einar O., Wyckoff, N. J., assignor to Magor Car Company, New York, N. Y. Door latch operating mechanism for railway cars. 2,430,517; Nov. 11.
- Lundgren, Eric H., Oakland, Calif. Retaining means for toilet seat covers. 2,431,263; Nov. 18.
- Lundgren, Eric L., Braddock Heights, Md., assignor to Ox Fibre Brush Company, Inc. Apparatus for treating fibrous material. 2,423,425; July 1.
- Lundgren, Harold P., Berkeley, Calif., assignor to Secretary of Agriculture of the United States of America. Making oriented regenerated protein products. 2,425,550; Aug. 12.
- Lundquist, Carl E. E., Stockholm, Sweden. Locking device for the seat posts of chairs. 2,432,245; Dec. 9.
- Lundquist, Wilton G., Hohokus, N. J., assignor to Wright Aeronautical Corporation. Opposite rotating propeller drive. 2,416,662; Feb. 25.
- Lundstrom, John V., Scotia, N. Y., assignor to General Electric Company. Apparatus for electroplating articles having pockets or recesses therein. 2,432,322; Dec. 9.
- Lundy, Beverly A., assignor to Railroad Accessories Corporation, New York, N. Y. Electrical connector. 2,424,938; July 29.
- Lung, Kenneth R., assignor to Flint & Walling Manufacturing Co., Inc., Kendallville, Ind. Pump controlling. 2,430,352; Nov. 4.
- Luongo, Albert: *See*—  
Greer, John J., and Luongo.
- Lupfer, James A., Houston, Tex. Pressure stabilizer for reciprocating pumps or compressors. 2,430,723; Nov. 11.
- Lurie, David, Joliet, Ill., assignor, by mesne assignments, to American Cyanamid Company, New York, N. Y. Sodium phosphate aluminates. 2,431,946; Dec. 2.
- Lurtz, Carl, Brooklyn, N. Y. Garment hanger. 2,424,280; July 22.
- Lusht, Julius: *See*—  
Rutbell, Clarence C., and Lusht.
- Luster, Donald R.: *See*—  
Rutherford, Peter B., and Luster.
- Lustig, Bernard, and A. A. Kondritzer, assignors to Lawrence Richard Bruce, Incorporated, Stamford, Conn. Forming keratin solutions. 2,413,983; Jan. 7.
- Luther, William A., Croton Falls, N. Y., assignor to Bard-Parker Company, Inc., Danbury, Conn. Lap and lap holder. 2,426,699; Sept. 2.
- Lutz, Edward H., Norwood, Pa., assignor, by mesne assignments, to General Motors Corporation. Liquid congealing apparatus. 2,426,515; Aug. 26.
- Lutz, Eugene, Philadelphia, Pa., and S. Segal, New York, N. Y., assignors to Pioneer Suspender Company, Philadelphia, Pa. Expandable belt. 2,415,254; Feb. 4.
- Lutz, Raymond G., assignee, et al.: *See*—  
Marksberry, Raymond D.
- Lutz, Wilmer A., Bucyrus, Ohio. Spreading attachment. 2,421,211; May 27.
- Lutzen, Arthur, assignee: *See*—  
Thompson, Benjamin F.
- Luzietti, Armand: *See*—  
Luzietti, Celestino and A., and Marini.
- Luzietti, Celestino and A., and F. A. Marini, Chicago, Ill.; said A. Luzietti and Marini assignors to said C. Luzietti. Conveyor with air nozzle sorting apparatus. 2,417,878; Mar. 25.
- Lyddon, Percy E., Worcester, assignor to Morgan Crucible Company, Limited, London, England. Gland packing. 2,426,461; Aug. 26.
- Lyman Manufacturing Co., Inc., assignee: *See*—  
Lime, Iola S.
- Lynam, John E.: *See*—  
Wilders, George, and Lynam.
- Lynam, John E., Mapperley, Nottingham, assignor to William Cotton Limited, Loughborough, Leicestershire, England. Cam and follower mechanism for straight knitting machines. 2,426,036; Aug. 19.
- Lynam, John E., Mapperley, Nottingham, and P. G. McCarthy, Whitwick, assignors to William Cotton Limited, Loughborough, England. Knitting machine. 2,416,632; Feb. 25.
- Lynam, John E., Mapperley, and P. G. McCarthy, Whitwick, assignors to William Cotton Limited, Loughborough, England. Patterning mechanism. 2,416,933; Mar. 4.
- Lynam, John E., Mapperley, and P. G. McCarthy, Whitwick, assignors to William Cotton Limited, Loughborough, England. Draw mechanism of straight bar knitting machines. 2,428,465; Oct. 7.
- Lynch, Charles B., assignor, by mesne assignments, to The Foundry Equipment Company, Cleveland, Ohio. Conveying means. 2,416,763; Mar. 4.
- Lynch, Charles S.: *See*—  
Whiteley, James M., Jr., and Lynch.
- Lynch, Edward A., Merion, Pa. Play crib. 2,421,341; May 27.
- Lynch, John R., Providence, R. I. Illuminated display utilizing ultra-violet and visible light rays. 2,430,232; Nov. 4.
- Lynch, Kathryn L., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Sulfosuccinate esters of 3,5-alkylcyclohexanols. 2,415,255; Feb. 4.
- Lynch, Kathryn L., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. N,N'-dioctadecyl-beta-amino-propionamide. 2,426,891; Sept. 2.
- Lynch Package Machinery Corporation, assignee: *See*—  
Sandberg, Oscar.
- Lynett, John J., Portland, Oreg. Combination seat and toilet for locomotive engineers. 2,431,264; Nov. 18.
- Lyngby, Christian N., Chicago, Ill. Shoe holding device. 2,416,587; Feb. 25.
- Lynn, Clarence, Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Excitation system. 2,417,770; Mar. 18.
- Lynn, Clarence, and D. B. Hoover, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Dynamoelectric machine ventilation. 2,427,731; Sept. 23.
- Lynn, Frederick E., Springdale, Pa. Liquid cooler. 2,430,774; Nov. 11.
- Lynn, George E., and B. J. Thiels, assignors to The Dow Chemical Company, Midland, Mich. Preparation of parastical mixtures. 2,423,457; July 8.
- Lynn, John E.: *See*—  
Vitalis, Emil A., and Lynn.
- Lynn, Lawrence B.: *See*—  
Hanna, Clinton R., and Lynn.
- Lynn, Lawrence B., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Stable element. 2,417,081; Mar. 11.
- Lyon, George A., Allenhurst, N. J. Wheel structure. 2,414,824; Jan. 28.
- Lyon, George A., Allenhurst, N. J. Wheel structure. 2,414,825; Jan. 28.
- Lyon, George A., Allenhurst, N. J. Ornamental wheel member. 2,415,829; Feb. 18.
- Lyon, George A., Allenhurst, N. J. Ornamental trim ring for vehicle wheels. 2,420,320; May 13.
- Lyon, George A., Allenhurst, N. J. Wheel trim. 2,420,321; May 13.
- Lyon, George A., Allenhurst, N. J. Wheel cover. 2,421,383; June 3.
- Lyon, George A., Allenhurst, N. J. Ornamental cover for vehicle wheels. 2,421,384; June 3.
- Lyon, George A., Allenhurst, N. J. Wheel cover. 2,421,385; June 3.
- Lyon, George A., Allenhurst, N. J. Wheel cover. 2,421,386; June 3.
- Lyon, George A., Allenhurst, N. J. Helmet construction. 2,421,633; June 3.
- Lyon, George A., Allenhurst, N. J. Fender construction. 2,421,634; June 3.
- Lyon, George A., Allenhurst, N. J. Wheel cover. 2,421,755; June 10.
- Lyon, George A., Allenhurst, N. J. Vehicle wheel cover. 2,421,756; June 10.
- Lyon, George A., Allenhurst, N. J. Wheel cover. 2,422,689; June 24.
- Lyon, George A., Allenhurst, N. J. Vehicle wheel cover. 2,422,690; June 24.
- Lyon, George A., Allenhurst, N. J. Wheel structure. 2,426,109; Aug. 19.
- Lyon, George A., Allenhurst, N. J. Wheel cover. 2,426,627; Sept. 2.
- Lyon, George A., Allenhurst, N. J. Ornamental trim ring for vehicle wheels. 2,431,338; Nov. 25.
- Lyon, George A., Allenhurst, N. J. Ornamental wheel trim ring. 2,431,699; Dec. 2.
- Lyon, George A., Allenhurst, N. J. Ornamental trim ring for vehicle wheels. 2,431,700; Dec. 2.
- Lyon, George A., Allenhurst, N. J. Trim ring for vehicle wheels. 2,431,701; Dec. 2.
- Lyon, George A., Allenhurst, N. J. Wheel cover. 2,432,530; Dec. 16.
- Lyon, George A., Allenhurst, N. J. Wheel cover. 2,432,531; Dec. 16.
- Lyon, Joseph, Jr.: *See*—  
Schulze, Walter A., and Lyon.
- Lyon Metal Products, Incorporated, assignee: *See*—  
Bales, James E.  
Knuth, Harvey G.  
Shaw, Dugald A.
- Lyons, Ernest C., Brooklyn, N. Y. Antirattler device for windows and the like. 2,417,656; Mar. 18.
- Lyons, Joseph L., Jr., Chicago, Ill., assignor, by mesne assignments, to Empire Box Corporation, Garfield, N. J. Bottle carrying cart. 2,432,481; Dec. 9.



- Lyons, Reginald C., Royal Oak, Mich. Conveyer guard clamp. 2,433,772; Dec. 30.
- Lyons, Walter, Wenonah, N. J., assignor to Radio Corporation of America. Diversity receiving system. 2,414,111; Jan. 14.
- Lysell, Ralph A. G.: *See*—  
Blomberg, Knut H., and Lysell.
- Lysholm, Alf, assignor to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden. Hot air turbine power plant with automatic air supply control. 2,421,387; June 3.
- Lyson & Coulson, Inc., assignee: *See*—  
Pocock, Harry E.
- Lytgens, Julius H., Los Angeles, Calif. Stage plug. 2,424,405; July 22.
- M-O Valve Company Limited, The, assignee: *See*—  
Ramsay, Henry T.
- Maag-Zahnrad und Maschinen Aktiengesellschaft, assignee: *See*—  
Aeppli, Albert.  
Lacser, Emil.
- Mable, Judson D., Lindenhurst, N. Y. Wall support with pivoted racks. 2,414,752; Jan. 21.
- Mabon, Carl R., Niagara Falls, N. Y., assignor to Moore Business Forms, Inc. Decollator for manifolding assemblies. 2,425,105; Aug. 5.
- MacAdams, Jesse E., Cheverly, Md. Densitometer for measuring the light transmission of a fluid while submerged therein. 2,427,013; Sept. 9.
- MacAlpin, Donald R., Lackawanna, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Changeable pitch airscrew hub. 2,417,003; Mar. 4.
- MacArthur, Roger A.: *See*—  
Easterberg, Gustave L., and MacArthur.
- MacArthur, Roger A., and H. W. Greider, Wyoming, Ohio, assignors to The Philip Carey Manufacturing Company. Preformed structural material. 2,415,647; Feb. 11.
- MacArthur, William L., Seattle, Wash. Shear for frangible materials. 2,423,601; July 8.
- MacArthur, William W., Gerrards Cross, and G. L. F. Welham, South Ruislip, assignors to The Fairey Aviation Company Limited, Hayes, Middlesex, England. Apparatus for flanging sheet metal strips. 2,422,838; June 24.
- Macaulay, Walter B., Oakland, assignor to Yuba Manufacturing Company, San Francisco, Calif. Multiple cell diaphragm jig with common actuating means. 2,416,450; Feb. 25.
- Maccaferri, Mario, New York, N. Y. Plastic clothespin. 2,429,557; Oct. 21.
- MacClatchie Manufacturing Company of California, assignee: *See*—  
Steele, Bryant.
- MacCluney, William R., Brooklyn, N. Y. Pelican hook. 2,419,650; Apr. 29.
- MacCluney, William R., Dearborn, Mich. Pelican hook. 2,422,916; June 24.
- MacCordy, Charles A., Fulton, N. Y. Receptacle for paper sheets. 2,431,131; Nov. 18.
- MacDonald, Frank J., Brookline, Mass., assignor to The B. F. Goodrich Company, New York, N. Y. Molding apparatus. 2,415,504; Feb. 11.
- MacDonald, George M., Coventry, England. Slide rule calculator. 2,426,362; Aug. 26.
- Macdonald, Hector A., Gravesend, Kent, assignor to W. T. Henley's Telegraph Works Company Limited, Westcott, Dorking, England. Floot. 2,415,490; Feb. 11.
- Macdonald, Hector A., Gravesend, assignor to W. T. Henley's Telegraph Works Company Limited, Westcott, Dorking, England. Instrument for measuring properties of rubber and rubberlike materials. 2,427,796; Sept. 23.
- MacDonald, Horace L., assignee: *See*—  
Alexander, Samuel A.
- MacDonald, James E., Latrobe, Pa. Checkerwork for furnaces. 2,432,779; Dec. 16.
- MacDonald, James E., assignor to McFeely Brick Company, Latrobe, Pa. Multiple brick furnace roof structure including individual facing blocks. 2,429,520; Oct. 21.
- MacDonald, Joseph A.: *See*—  
Boehm, Robert M., Hall, and MacDonald.
- MacDonald, Lawrence: *See*—  
Hales, John S., Murphy, and MacDonald.
- MacDonald, Maurice, assignor to The M. W. Kellogg Company, New York, N. Y. Relay valve apparatus. 2,426,779; Sept. 2.
- MacDonald, Richard A., Oshkosh, Wis., assignor to Flexograph, Inc. Phonograph stylus mount. 2,418,591; Apr. 8.
- Macdonald, William G.: *See*—  
Cooper, William A., and Macdonald.
- Macdonald, William G., assignor to William Cotton Limited, Loughborough, England. Straight bar knitting machine. 2,424,105; July 15.
- Macdonald, William G., and W. A. Cooper, assignors to William Cotton Limited, Loughborough, England. Automatic welt turning apparatus. 2,417,509; Mar. 18.
- MacDowell, Louis G.: *See*—  
Guest, Howard R., MacDowell, and McNamee.  
McNamee, Raymond W., and MacDowell.
- MacDuff, Stanley I., assignor to Bendix Aviation Corporation, South Bend, Ind. Fluid pressure control system. 2,420,890; May 20.
- Macey, Joseph, Rahway, and L. S. McKee, Roselle, N. J. Brake beam and bottom rod support. 2,433,773; Dec. 30.
- MacFadden, Glenn E., Westlake, assignor to John C. Virden Company, Cleveland, Ohio. Light fixture. 2,416,633; Feb. 25.
- MacFadden, Wilford C., Philadelphia, Pa., assignor to Cinch Manufacturing Corporation, Chicago, Ill. Terminal panel. 2,420,754; May 20.
- MacFarland, William A., Bridgewater, and C. H. Cutter, Wellesley, Mass. Heat-resistant composition. 2,430,404; Nov. 4.
- MacGeorge, William D., Drexel Hill, Pa., assignor to The Baldwin Locomotive Works. Electromagnetic motion responsive device. 2,427,866; Sept. 23.
- MacGregor, Ethel A., assignee: *See*—  
MacGregor, Peter.
- MacGregor, James H., Bocking Braintree, assignor to Courtaulds Limited, London, England. Improving the dyeing properties of cellulosic textiles by treatment with formaldehyde and a guanidine salt of an alpha-beta unsaturated carboxylic acid. 2,417,312; Mar. 11.
- MacGregor, Peter, assignor to E. A. MacGregor, Detroit, Mich. Punch. 2,424,474; July 22.
- MacGregor, Peter G.: *See*—  
Dodelin, Frederick A., and MacGregor.
- MacGregor, Wallace F., deceased, Racine, Wis., by R. D. Miller, special administrator, assignor to J. I. Case Company, Racine, Wis. Combination harvester-thresher. 2,430,298; Nov. 4.
- Machado, Anthony B.: *See*—  
Friden, Carl M., and Machado.
- Machado, John J., San Leandro, Calif. Receptacle attachment for children's vehicles. 2,418,717; Apr. 8.
- Machin, Donald W.: *See*—  
Spencer, Kenneth A., and Machin.
- Machine & Tool Designing Company, assignee: *See*—  
Pecker, Joseph S.
- Machlet, George A. F., Elizabeth, N. J. Measuring and control apparatus. 2,414,314; Jan. 14.
- Machlett Laboratories, Inc., assignee: *See*—  
Skehan, Joseph W.  
Skehan, Joseph W., and Magnusson.
- MacInnes, Robert H.: *See*—  
Muir, William P., and MacInnes.
- Mack, Edward L., New York, N. Y. Separable fastener receptacle with precompressed spring for airplane cowlings or the like. 2,417,207; Mar. 11.
- Mack, Francis J., Camden, N. J. Buckle and strap. 2,427,797; Sept. 23.
- Mack, John K.: *See*—  
Farmer, Carl, and Mack.
- Mack, John L., Sr., Chicago, Ill. Garment hanger. 2,419,723; Apr. 29.
- Mack Manufacturing Corporation, assignee: *See*—  
Benning, Walter F.  
James, Franklin E.
- Mack, Norman A., Riverside, assignor to Roberts & Porter, Inc., Chicago, Ill. Apparatus for applying a tubular fabric cover to rolls. 2,426,401; Aug. 26.
- Mack, Norman A., Riverside, assignor to Roberts & Porter, Inc., Chicago, Ill. Sleeve assembling apparatus for lithographic rolls. 2,431,407; Nov. 25.
- Mack, Sterling C., Bangor, Pa., assignor to Julius Kayser & Co., Brooklyn, N. Y. Full-fashioned knitting machine. 2,433,568; Dec. 30.
- Mack, Wayne E., Martins Ferry, Ohio, assignor, by mesne assignments, to Wheeling Steel Corporation, Wheeling, W. Va. Fastening together sheets of expanded metal. 2,415,830; Feb. 18.
- Mackall, James H., Akron, Ohio. Garter. 2,413,984; Jan. 7.
- MacKay, James E., Street, assignor to C. & J. Clark Limited, Somerset, England. Last for shoes. 2,426,516; Aug. 26.
- MacKay, John, Jersey City, N. J. Sewing accessory. 2,432,914; Dec. 16.
- Mackay, Kenneth M., and W. J. Sims, Rugby, England, assignors to General Electric Company. Control device. 2,420,548; May 13.
- Macke, Robert A., Westfield, and H. J. Zoeller, Union, N. J., assignors to Standard Oil Development Company. Refining waxes. 2,429,727; Oct. 28.
- MacKendrick, David B., New York, N. Y. Electric heating pad control. 2,421,953; June 10.
- MacKendrick, David B., New York, N. Y. Flexible electric heater and an apparatus and method for making the same. 2,423,196; July 1.
- MacKenzie, Albert K., Northwood, assignor to Amac Refinements Limited, Chesham Bois, England. Sanitary cabinet with means for dispensing papers. 2,421,342; May 27.
- MacKenzie, Charles A.: *See*—  
Rust, John B., and MacKenzie.
- MacKenzie, Charles A., Upper Montclair, N. J., assignor to Montclair Research Corporation. Textile treating compounds containing silicon and making same. 2,415,017; Jan. 28.
- Mackenzie, Franklin H.: *See*—  
Liben, William, and Mackenzie.
- Mackenzie, Kenneth D., Oceanside, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Operating internal-combustion engines. 2,431,875; Dec. 2.



- MacKenzie, Neal T., and H. E. Hall, assignors to General Timber Service, Inc., St. Paul, Minn. Treating lumber and other wood products. 2,430,641; Nov. 11.
- MacKenzie, Neil J., Superior, Wis. Shackle. 2,420,256; May 6.
- Mackey, Alexander S., Ottawa, Ontario, Canada, assignor to Scovill Manufacturing Company, Waterbury, Conn. Helix feed lipstick holder. 2,432,998; Dec. 23.
- Mackey, Alexander S., Ottawa, Ontario, Canada, assignor to Scovill Manufacturing Company, Waterbury, Conn. Rotary lipstick holder. 2,433,999; Dec. 23.
- Mackey, Frank C., Laurel, Md. Drying, preheating, burning, and cooling ceramicware. 2,418,650; Apr. 8.
- Mackey, Richard C., Antioch, Calif. Sugar container and dispenser. 2,423,784; July 8.
- Mackie, James, and Sons Limited, assignee: *See*—Mackie, John P.
- Mackie, John P., assignor to James Mackie and Sons Limited, Belfast, Northern Ireland. Machine for winding yarn. 2,417,258; Mar. 11.
- Mackie, John P., assignor to James Mackie and Sons Limited, Belfast, Northern Ireland. Machine for winding yarn. 2,431,876; Dec. 2.
- Mackin, John J., assignor to Leslie J. Kelly, Green Bay, Wis. Producing vinegar. 2,423,897; July 15.
- Mackin, Reuel F., Wink, assignor to Lamtex Equipment Corporation, Fort Worth, Tex. Insert apparatus for oil well casings. 2,432,028; Dec. 2.
- MacKinnon, John H., Larchmont, N. Y. Trench-digging machine. 2,417,313; Mar. 11.
- Macklanburg, Louis A., Oklahoma City, Okla. Window sash anchoring mechanism. 2,428,976; Oct. 14.
- Mackley, Paul C.: *See*—Wells, Arthur F., Jr., and Mackley.
- Macklin, Donald J.: *See*—Bachman, Benjamin B., and Machlin.
- Mackmann, Arthur, and B. S. Nelson, assignors to Foote Bros. Gear and Machine Corporation, Chicago, Ill. System of toothed gearing. 2,432,246; Dec. 9.
- Mackmann, Arthur, and W. E. Walsh, assignors to Foote Bros. Gear and Machine Corporation, Chicago, Ill. Gear treating machine. 2,433,468; Dec. 30.
- Mackta, Leo, U. S. Army, Brooklyn, N. Y. Speed indicator. 2,426,228; Aug. 26.
- MacLagan, James A., Forest Park, and T. A. Walsh, Chicago, Ill., assignors to Pioneer Trust & Savings Bank of Chicago, as trustee. Automatic foul line keeper. 2,425,254; Aug. 5.
- MacLagan, James A., Forest Park, and T. A. Walsh, Chicago, Ill., assignors to Pioneer Trust & Savings Bank of Chicago, as trustee. Photoelectric control for game devices. 2,425,255; Aug. 5.
- MacLagan, James A., Forest Park, and T. A. Walsh, Chicago, Ill., assignors to Pioneer Trust & Savings Bank of Chicago, as trustee. Automatic foul line keeper. 2,425,256; Aug. 5.
- MacLagan, James A., Forest Park, and T. A. Walsh, Chicago, Ill., assignors to Pioneer Trust & Savings Bank of Chicago, as trustee. Automatic foul line keeper. 2,425,257; Aug. 5.
- MacLagan, James A., Forest Park, and T. A. Walsh, Chicago, Ill., assignors to Pioneer Trust & Savings Bank of Chicago, as trustee. Photoelectric control for game devices. 2,425,258; Aug. 5.
- MacLaren, Fred B., Jr., U. S. Army, and F. H. Shepard, Jr., Madison, N. J., assignors to The Bristol Company, Waterbury, Conn. Conductance-responsive electron tube system. 2,422,574; June 17.
- MacLean, Alexander F.: *See*—Faden, Joseph H., and MacLean.
- MacLean-Fogg Lock Nut Company, assignee: *See*—Doke, Ernest G.
- MacManus, John, Yonkers, assignor to Cushman's Sons, Inc., New York, N. Y. Filling apparatus. 2,414,235; Jan. 14.
- MacManus, Paul L., New York, N. Y. Pressure cap for decanter units of coffee makers. 2,432,323; Dec. 9.
- MacMaster, Malcolm D., Woodside, Pa., assignor to C. V. Hill & Company, Inc., Trenton, N. J. Refrigerated display case. 2,421,896; June 10.
- MacMasters, Majel M.: *See*—Bice, Claude W., and MacMasters.
- MacMullen, Clinton W., Syracuse, N. Y., assignor to Röhm & Haas Company, Philadelphia, Pa. Pentahalophenoxyalkanois. 2,416,263; Feb. 18.
- MacMullen, Clinton W., and H. A. Bruson, assignors to Röhm & Haas Company, Philadelphia, Pa. Quaternary ammonium haloethers. 2,416,264; Feb. 18.
- MacMullen, Clinton W., and H. A. Bruson, assignors to Röhm & Haas Company, Philadelphia, Pa. Amino ethers and method of preparing same. 2,416,265; Feb. 18.
- MacMullin, Robert B., Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Cell for the electrolysis of magnesium chloride fusions. 2,432,431; Dec. 9.
- MacNeille, Stephen M., Oak Ridge, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Ortho pseudo stereo range finder. 2,432,432; Dec. 9.
- Macon, James R.: *See*—Wernlund, Christian J., and Macon.
- MacPheat, Alexander M.: *See*—Liss, August S., and MacPheat.
- MacPherson, Earle S., assignor to General Motors Corporation, Detroit, Mich. Internal-combustion engine. 2,428,886; Oct. 14.
- MacPherson, Floyd, assignor of forty-nine percent to M. E. MacPherson and fifty percent to C. G. Gunderson, Des Plaines, Ill. Key case. 2,433,526; Dec. 30.
- MacPherson, Hugh D., West New Brighton, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Testing system for impulse generators. 2,419,580; Apr. 29.
- MacPherson, Margaret E., assignee, et al.: *See*—MacPherson, Floyd.
- MacSorley, Olin L., Palmyra, N. J., assignor to Radio Corporation of America. Control system for automatic selector mechanism. 2,431,408; Nov. 25.
- Macuga, Stephen J.: *See*—Leum, Leonard N., Macuga, and Kreps.
- Macy, James C., New Cumberland, assignor to Aircraft-Marine Products Inc., Harrisburg, Pa. Connector. 2,416,335; Feb. 25.
- Madan, Edward K., Maplewood, N. J. Tray. 2,424,475; July 22.
- Madden, Baxter C., Jr., San Francisco, Calif. Gage-marking device. 2,415,434; Feb. 11.
- Madden, George G., and R. G. Whitford, Chicago, Ill.; said Madden assignor to said Whitford. Cradle bed. 2,429,834; Oct. 28.
- Maddock, Alan J., assignor to Standard Telephones and Cables Limited, London, England. Application of insulating material to electric cables. 2,429,635; Oct. 28.
- Maddock, Alan J., London, England, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Amplifying arrangement. 2,433,380; Dec. 30.
- Maddock, Ralph B.: *See*—Dye, Harry M., and Maddock.
- Maddox, Stanley V., Cheylesmore, Coventry, assignor to H. M. Hobson Limited, London, England. Servomotor. 2,429,189; Oct. 14.
- Madely, Frederick J., Montreal, Quebec, Canada, assignor to Western Precipitation Corporation, Los Angeles, Calif. Centrifugal separator. 2,433,774; Dec. 30.
- Mader, Joseph, assignor to Maremont Automotive Products, Inc., Chicago, Ill. Disc mounting. Re. 22,924; Oct. 7.
- Mader, Joseph, assignor to Maremont Automotive Products, Inc., Chicago, Ill. Snow plow. 2,432,780; Dec. 16.
- Madland, Thorvald, Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Lifting device. 2,427,566; Sept. 16.
- Madsen, Carl J., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electronic frequency multiplier. 2,414,541; Jan. 21.
- Madsen, Nils, San Pedro, Calif. Method of sharpening lawn mowers. 2,425,106; Aug. 5.
- Madsen, Soren, Bergenfield, J. F. O'Brien, Englewood, N. J., and C. D. Keith, Lake Mahopac, N. Y.; I. M. Keith, administratrix of said C. D. Keith, deceased; said Madsen assignor to I. M. Keith, as administratrix. Machine for transferring bottles from a carrier swingable in an arcuate vertical path to a vertically oscillatory receptacle carrying member. 2,431,265; Nov. 18.
- Madson, Harold R., Glen Ellyn, assignor to Welding Apparatus Company, Chicago, Ill. Welder's helmet. 2,416,764; Mar. 4.
- Maeser, Mieth, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Gun platform. 2,421,794; June 10.
- Magann, Merritt W., St. Louis, and W. A. McElvain, Maplewood, assignors to Diagraph-Bradley Stencil Machine Corporation, St. Louis, Mo. Fountain brush. 2,417,370; Mar. 11.
- Magdeburger, Edward C., assignee: *See*—Barrett, Charles G.
- Magdeburger, Edward C., Washington, D. C. Manifold for internal-combustion engines. 2,423,602; July 8.
- Magdsick, Henry H., East Cleveland, Ohio, assignor to General Electric Company. Multiflash lamp. 2,422,428; June 17.
- Mageoch, Nelson H., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Article coating apparatus. 2,421,343; May 27.
- Mageoch, Nelson H., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Assembling machine. 2,423,036; June 24.
- Mager, Eric L., Leominster, assignor to Sylvania Electric Products Inc., Salem, Mass. Fluorescent electric discharge lamp. 2,419,902; Apr. 29.
- Magill, Franklin R., Mount Lebanon, Pa. Automatic self-cleaning water strainer. 2,429,417; Oct. 21.
- Magill, Lloyd G.: *See*—McCorquodale, Wilmer E., and Magill.
- McCorquodale, Wilmer E., Jr., Magill, and Hagy.
- Magill, Paul L.: *See*—Hansley, Virgil L., and Magill.
- Magill, Paul La F., Ransomville, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Halogen-yielding compositions. 2,430,233; Nov. 4.
- Maginley, Clare J., Danbury, Conn. Educational appliance. 2,418,718; Apr. 8.



- Magnaflex Corporation, assignee: *See*—  
 Clarke, John E.  
 de Forest, Taber.  
 Doane, Foster B.  
 Ellis, Greer.  
 Pruitt, John G., and Oberdorf.
- Magnani, Arthur: *See*—  
 Julian, Percy L., Cole, Magnani, and Meyer.
- Magnavox Company, assignee: *See*—  
 Koonz, John C., Quinell, and Severance.
- Magnavox Company, The, assignee: *See*—  
 Fridham, Edwin S.  
 Quinell, la V. Edward, Koonz, and Severance.
- Magnetic Analysis Corporation, assignee: *See*—  
 Kellerman, Frederick.  
 Zuschlag, Theodore.
- Magnetic Devices, Inc., assignee: *See*—  
 Price, Osborne I.
- Magnetone, Inc., assignee: *See*—  
 Begun, Semi J.
- Magnetos Lucifer S. A., assignee: *See*—  
 Girard, Georges.
- Magnus, Carl E. and L. L., Chicago, Ill. Method of and device for extracting hairs by using adhesive tape. 2,423,245; July 1.
- Magnus, Elmer G.: *See*—  
 Wagner, Harold H., and Magnus.
- Magnus, Eric S., assignee: *See*—  
 Monrad, Robert T.
- Magnus, Finn H., Glen Ridge, assignor to International Plastic Harmonica Corporation, Newark, N. J. Method of and mold for making integral reed plates and reeds. 2,416,451; Feb. 25.
- Magnus, Louise L.: *See*—  
 Magnus, Carl E. and L. L.
- Magnusson, Bror K. M.: *See*—  
 Skehan, Joseph W., and Magnusson.
- Magoffin, James E.: *See*—  
 Brimer, Marshall R., Magoffin, and Von Bramer.
- Magor Car Company, assignee: *See*—  
 Lunde, Einar O.
- Magos, John P., Wilmette, assignor to Crane Co., Chicago, Ill. Liner for gun barrels. 2,426,972; Sept. 2.
- Magoun, George L., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Alkylating aromatic compounds. 2,429,887; Oct. 28.
- Magram, Sidney J., Baltimore, Md. Starting mixture. 2,421,029; May 27.
- Magrane, John K., Highland Park, A. R. Esterly, Metuchen, and R. E. Davies, Plainfield, N. J., assignors to Catalin Corporation of America. Cast polymerization of mixtures of diallyl phthalate and an acrylic ester. 2,426,402; Aug. 26.
- Magrum, Gervase M., Buffalo, N. Y., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Hydraulic damping device cylinder construction. 2,419,651; Apr. 29.
- Maguire, John J., assignor to Field and Flint Co., Brockton, Mass. Method of making insoles. 2,422,027; June 10.
- Magyar, Frank: *See*—  
 Van Epps, John N., Kraus, and Magyar.
- Maha, Otto J.: *See*—  
 Peterson, Victor W., and Maha.
- Mahaffey, Jesse L., Wenonah, N. J. Safety trestle. 2,430,642; Nov. 11.
- Mahan, John E.: *See*—  
 Schulze, Walter A., and Mahan.
- Mahan, John E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Synthesis of amides. 2,421,030; May 27.
- Mahan, John E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Process for synthesis of thioamides. 2,421,031; May 27.
- Mahan, John E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of acetonitrile. 2,432,532; Dec. 16.
- Mahan, Louis F., Iowa City, Iowa, W. C. Hasselhorn, and E. H. Ziebold, assignors of two-thirds to Cook Electric Company, Chicago, Ill., and one-third to L. F. Mahan. Universal bomb hoisting band. 2,433,523; Dec. 30.
- Mahler, George T., Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y. Treatment of dross for the recovery of zinc. 2,433,615; Dec. 30.
- Mahler, Joseph: *See*—  
 Land, Edwin H., Mahler, and Ryan.
- Mahler, Paul: *See*—  
 Freund, Ernest H., and Mahler.
- Mahler, William, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slice delivery and arranging apparatus for slicing machines. 2,426,835; Sept. 2.
- Mahlmeister, Raymond A., assignor to The Sheffield Corporation, Dayton, Ohio. Grinding contours. 2,419,457; Apr. 22.
- Mahnke, Kurt: *See*—  
 Schaeichlin, Walter, and Mahnke.
- Mahnke, Kurt, Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system for winch drives. 2,414,473; Jan. 21.
- Mahoney, John R., Oak Ridge, Tenn., and H. J. Bichsel, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electronic control device for forming impulses. 2,426,037; Aug. 19.
- Maico Company, Incorporated, The, assignee: *See*—  
 Darr, Harold W.
- Maiden Form Brassiere Company, Inc., assignor: *See*—  
 Coleman, Joseph A.
- Maienshein, John F., Parkville, Md., assignor to The Brown Instrument Company, Philadelphia, Pa. Liquid density measuring apparatus. 2,418,592; Apr. 8.
- Maier, Curtis E., Elmhurst, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Aluminum powder and resin spot facing material. 2,421,154; May 27.
- Maier, Howard A.: *See*—  
 Peck, William F., Schenk, and Maier.
- Maletta, Louis J., Bristol, Conn. Fish lure. 2,431,181; Nov. 18.
- Maigis, James T., assignor to American Hatters and Furriers Company, Incorporated, Danbury, Conn. Fur cutting machine. 2,417,771; Mar. 18.
- Maillet, Jeannette V., Brownville Junction, assignor of one-half to P. J. Maillet, Brownville, Maine. Mending hook for stockings. 2,418,417; Apr. 1.
- Maillet, Philip J., assignee: *See*—  
 Maillet, Jeannette V.
- Maillet, Raymond, Paris 16 E, France; vested in the Attorney General of the United States. Geophysical prospecting. 2,420,672; May 20.
- Main, Andrew, Cleveland, Ohio. Fare box construction. 2,430,473; Nov. 11.
- Maino, Alfred J., New Bedford, Mass. Heat dissipating cot for textile rolls. 2,421,426; June 3.
- Main-Smith, John D., and E. C. Jones, Farnborough, England. Matt black paint composition. 2,422,429; June 17.
- Mainwal, Dong M. G., Detroit, Mich. Screen. 2,430,518; Nov. 11.
- Mainwaring, John L., assignor to Clark Manufacturing Company, Cleveland, Ohio. Blowdown device. 2,431,057; Nov. 18.
- Maitlen, Harry D., Long Beach, Calif. Cleaning rod for welding torches. 2,429,581; Oct. 21.
- Majer, Frank G.: *See*—  
 Borgerd, William F., Majer, Knopp, and Bennett.
- Majer, Frank G., Berwyn, Ill., assignor to International Harvester Company. Armature brush. 2,421,795; June 10.
- Majneri, Ludwig A., Grosse Pointe, assignor to The Warner Aircraft Corporation, Detroit, Mich. Hydraulic brake construction. 2,414,753; Jan. 21.
- Majoros, Frank P.: *See*—  
 Katz, Julius, and Majoros.
- Mako, Dave, Catonsville, and R. H. George, Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Multiple processing frame. 2,422,307; June 17.
- Makowsky, J., Corporation, assignee: *See*—  
 Van Rosen, Robert.
- Maky, Walter, assignor to The Parker Appliance Company, Cleveland, Ohio. Elbow pipe coupling. 2,413,878; Jan. 7.
- Malaguti, Evo, Wellesley, Mass. Apparatus for the sharpening of cutters. 2,428,363; Aug. 26.
- Malcolm, R., Messrs., Limited, assignee: *See*—  
 Lobelle, Marcel J. O.
- Malcolm, Robert L., and W. Z. Whipple, assignors to Chicago Eye Shield Company, Chicago, Ill. Industrial eye-shield. 2,427,918; Sept. 23.
- Malcolm, Scott: *See*—  
 Mitchell, Percival H., and Malcolm.
- Malden Spinning & Dyeing Company, The, assignee: *See*—  
 Sawyer, Norman D.
- Malek, Edward W.: *See*—  
 Streicker, Seymour F., and Malek.
- Malek, Sidney K., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control device. 2,414,764; Jan. 21.
- Malen, Jarly C., U. S. Navy. Pneumatic tire device. 2,426,628; Sept. 2.
- Malhiot, Clarence J., Oak Park, assignor to F. B. Redington Co., Chicago, Ill. Wrapping machine. 2,426,314; Aug. 26.
- Malina, Frank J., and M. Summerfield, Pasadena, assignors to Aerojet Engineering Corporation, Azusa, Calif. System of propulsion. 2,431,132; Nov. 18.
- Maling, Roy, West Roxbury, Mass. Footwear. 2,419,785; Apr. 29.
- Maling, Roy, Chestnut Hill, Mass. Open-toe shoe. 2,421,796; June 10.
- Maling, Roy, Chestnut Hill, Mass. Platform shoe. 2,427,798; Sept. 23.
- Malke, Sven, assignor to A. O. Smith Corporation, Milwaukee, Wis. Electric resistance welding fixture. 2,424,892; July 29.
- Malkemus, John D., Allendale, N. J. Mono-substituted dialkanol piperazines. 2,421,707; June 3.
- Malko & Lock Machine Products, assignee: *See*—  
 Malko, Stephen.
- Malko, Stephen, assignor to Malko & Lock Machine Products, Chicago, Ill. Applicator. 2,425,384; Aug. 12.
- Mallan, Jane, executrix: *See*—  
 Mallan, Robert.
- Mallan, Robert, deceased, New York, N. Y.; J. Mallan, executrix. Portable range unit with separately controlled flues. 2,417,314; Mar. 11.
- Mallard, Logan L., Norfolk, Va. Charging gas-expansion chambers of ice molds. 2,425,259; Aug. 5.
- Mallard, Logan L., assignor of one-half to H. C. Hofheimer, II, Norfolk, Va. Ice cube tray. 2,416,934; Mar. 4.



- Mallett, John D.: *See*—  
Mieher, Walter W., and Mallett.
- Mallinckrodt Chemical Works, assignee: *See*—  
Farr, Henry V.  
Homeyer, August H.
- Malling, Leonard R., Douglaston, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Tunable ultra high frequency apparatus. 2,415,141; Feb. 4.
- Malling, Leonard R., San Diego, Calif., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Balanced ultra-high-frequency generator. 2,431,762; Dec. 2.
- Mallory, Edward B., Tenafly, N. J. Waste purification apparatus having superposed aerating and clarifying chambers. 2,413,838; Jan. 7.
- Mallory, Edward B., Tenafly, N. J. Regenerative digester. 2,430,519; Nov. 11.
- Mallory, Gerald D., Akron, Ohio, assignor to Wingfoot Corporation. Suit. 2,414,051; Jan. 7.
- Mallory, Marion, Detroit, Mich. Internal combustion engine. Re. 2,2863; Apr. 8.
- Mallory, Marion, Detroit, Mich. Carburetor for internal-combustion engines. 2,415,435; Feb. 11.
- Mallory, Marion, Detroit, Mich. Device for throttling internal-combustion engines. 2,415,505; Feb. 11.
- Mallory, Marion, Detroit, Mich. Internal-combustion engine. 2,415,506; Feb. 11.
- Mallory, Marion, Detroit, Mich. Internal-combustion engine. 2,415,507; Feb. 11.
- Mallory, Marion, Detroit, Mich. Engine governor. 2,415,508; Feb. 11.
- Mallory, Marion, Detroit, Mich. Engine governor. 2,415,509; Feb. 11.
- Mallory, Marion, Detroit, Mich. Ignition distributor for internal-combustion engines. 2,415,510; Feb. 11.
- Mallory, Marion, Detroit, Mich. Ventilated ignition distributor for internal-combustion engines. 2,415,511; Feb. 11.
- Mallory, Marion, Detroit, Mich. Engine governor. 2,416,110; Feb. 18.
- Mallory, Marion, Detroit, Mich. Temperature control for internal-combustion engines. 2,420,436; May 13.
- Mallory, Marion, Detroit, Mich. Degasser for internal-combustion engines. 2,420,786; May 20.
- Mallory, Marion, Detroit, Mich. Engine governor. 2,424,836; July 29.
- Mallory, Marion, Detroit, Mich. Two-cycle internal-combustion engine. 2,425,157; Aug. 5.
- Mallory, Marion, Detroit, Mich. Multiple cylinder engine throttle control. 2,429,270; Oct. 21.
- Mallory, Marion, Detroit, Mich. Engine governor. 2,431,182; Nov. 18.
- Mallory, Marion, Detroit, Mich. Engine speed governor. 2,431,816; Dec. 2.
- Mallory, Marion, Detroit, Mich. Engine governor. 2,432,166; Dec. 9.
- Mallory, P. R., & Co., Inc., assignee: *See*—  
Booe, James M.  
Brady, Robert L., and Wall.  
Hensel, Franz R.  
Hensel, Franz R., and Larsen.  
Holt, Matthew L., and Black.  
Holt, Matthew L., and Nielsen.  
Huettner, Clarence.  
Puerer, George O.  
Smith, Cleveland S., Jr., and Blumenthal.  
Wall, Alexander C.  
Whitesell, Robert O.
- Mallouf, John, Las Vegas, N. Mex. Garment press having a steaming device. 2,422,917; June 24.
- Mallory, John J., Cleveland Heights, Ohio, assignor to General Electric Company. Apparatus for coating the inner walls of bulbs. 2,415,512; Feb. 11.
- Malluk, Assad M., New York, N. Y. Footwear with water-resistant slide-fastener closure. 2,422,249; June 17.
- Malluk, Assad M., New York, N. Y. Boot with expansible top. 2,426,700; Sept. 2.
- Malm, Harry F., Portland, Oreg. Utility trailer. 2,433,229; Dec. 23.
- Malm, Henry, New York, N. Y. Rubber footwear with front pull tab. 2,433,135; Dec. 23.
- Malmquist, Oscar V., Minneapolis, Minn. Inertia-operated stop signal. 2,433,469; Dec. 30.
- Malo, Edward J., Benton Harbor, Mich. Closing flap for envelopes and the like. 2,420,963; May 20.
- Malone, Carl S.: *See*—  
Varon, Max A., and Malone.
- Malone, Homer E., assignor to Perfex Corporation, Milwaukee, Wis. Combination control. 2,426,629; Sept. 2.
- Malone, Homer E., Milwaukee, and C. Hotchkiss, St. Francis, assignors to Perfex Corporation, Milwaukee, Wis. Combustion control. 2,414,112; Jan. 14.
- Malone, Homer F., assignor to Stewart-Warner Corporation, Chicago, Ill. Pressure switch. 2,421,797; June 10.
- Maloney, William T., Clinton, N. Y. Zirconium silicate polishing material and preparing same. 2,427,799; Sept. 23.
- Malooof, Milton: *See*—  
Pitre, Antonio S., Lauer, Malooof, and Rogers.
- Malsbary Manufacturing Company, assignee: *See*—  
Taylor, Walter W.
- Malseed, Harry F., St. Louis, Mo. Sliding cutoff gauge and measuring device for circular saws. 2,426,780; Sept. 2.
- Maltby, Kenneth R., Garden City, Mich. Automatic machine tool. 2,414,826; Jan. 28.
- Malter, Louis, Princeton, N. J., assignor to Radio Corporation of America. Electron discharge device with beam deflecting resonator. 2,415,749; Feb. 11.
- Malthaner, Sylvester A., Erie, Pa. Tire rim mounting. 2,414,156; Jan. 14.
- Malthouse, Ernest G., Sheffield, England. Erection of brickwork structures. 2,428,374; Oct. 7.
- Mamaux, Harry O., Pittsburgh, Pa. Ice bag. 2,415,956; Feb. 18.
- Mamlin, Morris W., Pine Bluff, and R. E. Welker, Laurinburg, N. C. Face protector for fire fighters. 2,421,427; June 3.
- Mample, Adolph Z., Glen Rock, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Coaxial cable and making same. 2,420,712; May 20.
- Mance, Eugene B., assignee et al.: *See*—  
Piper, Harry K.
- Mance, Lady E., assignee et al.: *See*—  
Piper, Harry K.
- Mancini, Michael W., Pittsburgh, Pa., assignor to All American Aviation, Inc., Wilmington, Del. Arm for aerial pickup systems. 2,433,136; Dec. 23.
- Manderscheid Co., The, assignee: *See*—  
Manderscheid, James J., Ratkovich, and Kovacic.  
Manderscheid, James J., J. Ratkovich, and V. Kovacic, assignors to The Manderscheid Co., Chicago, Ill. Work holder for polishing machines. 2,422,430; June 17.
- Mandl, Siegmund: *See*—  
Brumder, Herbert P., and Mandl.
- Maneval, Richard L.: *See*—  
Busacker, John W., and Maneval.
- Mangan, Joseph B., Wethersfield, Conn. Clothesline apparatus. 2,424,837; July 29.
- Manger, Charles F., G. A. Buswell, and R. Peberdy, assignors to The Bentley Engineering Company Limited, Leicester, England. Circular knitting machine. 2,423,989; July 15.
- Mangnall, Arthur R., assignor to The Hydraulic Engineering Company Limited, Chester, England. Construction of machine frameworks. 2,416,058; Feb. 18.
- Manhattan Scalloping and Embroidery Works, Inc., assignee: *See*—  
Fogel, Jack L.
- Manildi, Joseph F., Pasadena, Calif., assignor, by mesne assignments, to Howe & Fant, Inc., South Norwalk, Conn. Correction of Selsyn transmitter errors. 2,432,029; Dec. 2.
- Manitowoc Shipbuilding Company, assignee: *See*—  
West, John D.
- Mank, John J.: *See*—  
Tobey, Solomon, Mank, and Zallea.
- Mankin, Edward T., Richmond, Va. Kiln system and operation. 2,428,169; Sept. 30.
- Manley, Albert M., Boston, assignor of one-half to P. G. Reynolds, Milton, Mass. Nonspill liquid-holding device. 2,431,573; Nov. 25.
- Manley, John C.: *See*—  
Lewis, Arthur P., and Manley.
- Mann, Arthur S., Kankakee, assignor to Paramount Textile Machinery Co., Chicago, Ill. Hosiery drying form. 2,433,470; Dec. 30.
- Mann, Cecil A., Dayton, assignor to H. C. Smith, Cincinnati, Ohio. Spherical fluid operated rotary motor of the axially moving sliding vane type. 2,418,081; Mar. 25.
- Mann, Cecil A., Dayton, assignor to H. C. Smith, Cincinnati, Ohio. Fluid displacement device of the gear type. 2,431,817; Dec. 2.
- Mann, Cecil E., Pontiac, Mich. Ladder attachment. 2,432,781; Dec. 16.
- Mann, John, assignor to Goulds Pumps, Inc., Seneca Falls, N. Y. Pump. 2,430,299; Nov. 4.
- Mann, Joseph, Philadelphia, Pa., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Combined seaming and pinking machine. 2,427,867; Sept. 23.
- Mann, Thomas B., Upton, Wirral, England. Separation of vegetable pigments. 2,428,740; Oct. 7.
- Mann, William, Grosse Pointe, Mich., assignor to The Budd Company, Philadelphia, Pa. Brake element. 2,418,719; Apr. 8.
- Manney, David H., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Breather plug for electric motors. Re. 2,2890; June 17.
- Manning, Clarence R., Vestal, assignor to International Business Machines Corporation, New York, N. Y. Control mechanism for dispensing apparatus. 2,431,058; Nov. 18.
- Manning, Dennis J.: *See*—  
Engel, Frank A., and Manning.
- Manning, Fred W., Palo Alto, Calif. Production of filaments and fabrics from fluids. 2,433,000; Dec. 23.
- Manning, Maxwell & Moore, Incorporated, assignee: *See*—  
Allen, Earle F., and Burrows.  
Conrad, Albert G.  
Conrad, Albert G., and Hiller.  
Kahn, Samuel.  
Moore, George E., and Smith.  
Turner, Jacob L.



- Manoog, John C.: *See*—  
Sepavich, Victor F.  
Sepavich, Victor F., and Manoog.
- Man-Sew Corporation, assignee: *See*—  
Sigoda, Victor J.  
Sigoda, Victor J. and J.
- Mansfield, Coy H., assignee, et al.: *See*—  
Browne, Paul W.
- Mansfield, F., & Sons Company, The, assignee: *See*—  
Nelson, Julius R.
- Mansfield, George E., South Haven, Mich., assignor to Everett Piano Company. Burial vault. 2,431,183; Nov. 18.
- Mansfield, Judson H., assignor to Greenlee Bros. & Co., Rockford, Ill. Multiple unit machine tool. 2,429,938; Oct. 28.
- Mansfield, Vaughn, Memphis, Tenn. Air control for locomotives. 2,415,256; Feb. 4.
- Mansfield, Wilfred P., and J. White, Slough, England, assignors to M. Kadenacy, Summit, N. J. Two-stroke cycle internal-combustion engine. 2,431,266; Nov. 18.
- Mansford, Hugh L., Ickenham, assignor to Electric & Musical Industries Limited, Hayes, England. Amplifier circuits. 2,424,893; July 29.
- Manson, Frank G., and J. J. Maskey, Dayton, Ohio. Life raft. 2,413,985; Jan. 7.
- Manson, Rose, New York, N. Y. Garment. 2,427,868; Sept. 23.
- Mantilla, Carlos, and J. T. Graffin, Lima, Peru. Safety fuse outlet plug. 2,423,512; July 8.
- Mantle, Burr W., Pittsford, N. Y., assignor to American Brake Shoe Company, Wilmington, Del. Pump. 2,427,060; Sept. 9.
- Mantle, Hermon L., Painesville, assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Removal of water from aqueous solutions. 2,424,663; July 29.
- Mantle Lamp Company of America, The, assignee: *See*—  
Jacob, Frederick N., and Kirk.
- Manuel, Charles J., Durham, N. H. Cribbage board. 2,432,167; Dec. 9.
- Manufacturers Electronic Developments, Inc.: *See*—  
Lavoie, Stephen D.
- Manufacturers Machine & Tool Co., Inc., assignee: *See*—  
Boecking, Ewald.
- Manus, George K., Los Angeles, Calif. Pull-over garment. 2,425,480; Aug. 12.
- Mapes Consolidated Manufacturing Company, assignee: *See*—  
De Reamer, William J.
- Mapes, Daniel, West Caldwell, assignor to Specialties Development Corporation, Bloomfield, N. J. Test means for high-pressure fluid medium containers. 2,414,113; Jan. 14.
- Mapes, Daniel, West Caldwell, assignor to Specialties Development Corporation, Bloomfield, N. J. High-pressure gaseous oxygen package. 2,426,630; Sept. 2.
- Mapes, Daniel, West Caldwell, assignor to Specialties Development Corporation, Bloomfield, N. J. Wire tensioning device. 2,426,631; Sept. 2.
- Mapes, Daniel, West Caldwell, and E. Du Pont, assignors to Specialties Development Corporation, Bloomfield, N. J. Apparatus for discharging fluids under pressure. 2,417,082; Mar. 11.
- Mapp, Alfred G., Cheltenham, England, assignor to Rotol Limited. Internal micrometer. 2,428,234; Sept. 30.
- Mappin, Walter L., New Westminster, British Columbia, Canada. Ship davit. 2,415,016; Jan. 28.
- Marancik, Joseph V.: *See*—  
Ogorzaly, Henry J., Martin, and Marancik.
- Marasko, Edward J., assignor to The Weatherhead Company, Cleveland, Ohio. Chucking fixture. 2,418,082; Mar. 25.
- Marathon Corporation, assignee: *See*—  
Farrell, Robert A., and Wagner.  
Graebner, Winfred H., and Flom.
- Marble, Jarvis C., assignee, et al.: *See*—  
Boestad, Gustav K. W.
- Marboe, Evelyn C., State College, Pa., assignor to Glass Science, Incorporated, New York, N. Y. Deposition of metal on glass from metal formates. 2,430,520; Nov. 11.
- Marburg, Edgar, Pittsburgh, Pa., assignor to Carnegie Illinois Steel Corporation. Sectional hot top. 2,433,775; Dec. 30.
- Marbury, Ralph E., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Series capacitor. 2,428,576; Oct. 7.
- Marcell, Reginald C., Thames Ditton, assignor to D. Napier & Son Limited, London, England. Fastening device for connecting two separable members. 2,433,138; Dec. 23.
- March, Cecil C., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Resilient abrasive disk. 2,414,474; Jan. 21.
- March, Laurel A., Fort Wayne, Ind., assignor to General Electric Company. Composite conductor for dynamo-electric machines. 2,433,671; Dec. 30.
- Marchal, Neville L., Sr., New Orleans, La. Fender or cushion. 2,433,569; Dec. 30.
- Marchand, Adolph, Jackson Heights, N. Y. Bathroom accessory. 2,414,755; Jan. 21.
- Marchand, Jean J. M. L., The Hague, Netherlands; vested in the Alien Property Custodian. Container for distributing and sorting machines. 2,416,398; Feb. 25.
- Marchand, Nathan: *See*—  
Alford, Andrew, and Marchand.
- Marchand, Nathan, New York, N. Y., assignor to Federal Telephone and Radio Corporation. Phase shifting means. 2,414,475; Jan. 21.
- Marchand, Nathan, New York, N. Y., assignor to Federal Telephone and Radio Corporation. Radio receiver. 2,416,336; Feb. 25.
- Marchand, Nathan, New York, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Unidirectional antenna. 2,421,032; May 27.
- Marchand, Nathan, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Antenna structure. 2,426,632; Sept. 2.
- Marchand, Nathan, New York, N. Y., assignor to Federal Telephone and Radio Corporation, East Newark, N. J. Pulse landing system. 2,433,381; Dec. 30.
- Marchant Calculating Machine Company, assignee: *See*—  
Avery, Harold T.  
Dustin, Howard M.
- Marchese, John B., Sharpsburg, Pa. Pump control. 2,430,775; Nov. 11.
- Marchmont, William T., Chiswick, assignor to Evershed and Vignoles Limited, London, England. Electrical apparatus for indicating liquid levels. 2,416,059; Feb. 18.
- Marcheph & Co., Inc., assignee: *See*—  
Goodman, Leo A.
- Marco Chemicals Inc., assignee: *See*—  
Gould, Charles.  
Muskat, Irving E.
- Marco, Vincent A., assignee: *See*—  
Aves, Fred J.
- Marco, Vincent A., Beverly Hills, Calif. Tell-tale and testing light. 2,424,573; July 29.
- Marco, Vincent A., Beverly Hills, Calif. Signal light. 2,424,574; July 29.
- Marcum, Charles R.: *See*—  
Schneider, William, and Marcum.
- Marcus, Morris L., Pittsburgh, Pa. Earring. 2,417,117; Mar. 11.
- Marcy, Grosvenor D., Newton Highlands, assignor to Boston Woven Hose & Rubber Company, Cambridge, Mass. Method and apparatus for vulcanizing strip material. 2,418,976; Apr. 15.
- Marder, Estella P., Nottingham, and W. N. Green, West Bridgford, Nottingham, assignors to Byard Manufacturing Company, Limited, Nottingham, England. Cap for wear. 2,417,986; Mar. 25.
- Marek, Leroy F., Lexington, Mass., assignor to Arthur D. Little, Inc. Preparing substantially anhydrous magnesium chloride. 2,417,772; Mar. 18.
- Marek, Leroy F., Lexington, assignor to Arthur D. Little, Inc., Cambridge, Mass. Making carbon bisulfide. 2,424,894; July 29.
- Maremont Automotive Products, Inc., assignee: *See*—  
Mader, Joseph.
- Mares, Joseph R., Webster Groves, assignor to Monsanto Chemical Company, St. Louis, Mo. Producing decorative articles. 2,428,977; Oct. 14.
- Marette, Ralph T., and W. R. Richards, Cleveland, assignors to The Aro Equipment Corporation, Bryan, Ohio. Vapor detector. 2,427,291; Sept. 9.
- Margaria, Rodolfo, Milan, Italy; vested in the Attorney General of the United States. Breathing apparatus for respiration at high altitudes. 2,432,627; Dec. 16.
- Margolin, Meyer, Elgin, Ill. Ventilated midsole. 2,432,533; Dec. 16.
- Margolis, Louis, Washington, D. C. Lighting fixture. 2,418,131; Apr. 1.
- Margon Corporation, assignee: *See*—  
Cohn, David.
- Margot, Alfred: *See*—  
Martin, Henry, and Margot.
- Margulis, Peter H., New York, N. Y. Footwear. 2,426,403; Aug. 26.
- Marhoefer, Laurence J.: *See*—  
Vidal, Eugene L., and Marhoefer.
- Marhoefer, Laurence J., Haddon Heights, and W. A. Taylor, Wildwood, N. J., and E. L. Vidal, Washington, D. C., assignors to Vidal Corporation. Forming laminated hollow structures. 2,420,488; May 13.
- Marhoefer, Lawrence J., Haddon Heights, assignor to Vidal Corporation, Camden, N. J. Wing structure for gliders. 2,430,643; Nov. 11.
- Marick, Louis, Grosse Pointe Farms, Mich., assignor to United States Rubber Company, New York, N. Y. Static free brush. 2,426,315; Aug. 26.
- Marick, Louis, Grosse Pointe Farms, Mich., assignor to United States Rubber Company, New York, N. Y. Heated wiper. 2,427,502; Sept. 16.
- Marien, Melvin W.: *See*—  
Frisby, Frank D., and Marien.
- Marien, Melvin W., assignor to Ramsey Accessories Manufacturing Corporation, St. Louis, Mo. Composite sealing ring. 2,420,047; May 6.
- Marin, Mario, assignee: *See*—  
Gazolas, Jack.
- Marine Products Company, assignee: *See*—  
Fernstrum, Robert W.
- Marini, Frank A.: *See*—  
Luzietti, Celestino and A., and Marini.
- Marini, Herman: *See*—  
Stroud, Charles E., and Marini.



- Marino, Anthony, New York, N. Y. Clip lock inclined baby bottle holder. 2,421,458; June 3.
- Marinsky, Davis, assignee: *See*—  
Morin, Louis H.
- Marion Power Shovel Company, assignee: *See*—  
Borsini, Frederick H.
- Maris, Harry B., Riverdale, Md. Photoelastic blast pressure gauge. 2,415,436; Feb. 11.
- Marisic, Milton M., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Preparing an inorganic oxide gel. 2,418,232; Apr. 1.
- Marisic, Milton M., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Production of gases containing hydrogen and carbon monoxide. 2,430,432; Nov. 4.
- Marisic, Milton M., Northfield, assignor to The Pure Oil Company, Chicago, Ill. Catalytic cracking of hydrocarbons. 2,428,715; Oct. 7.
- Marisic, Milton M., Woodbury, and A. C. Schmitt, Wenonah, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Forming a silica-containing hydrogel. 2,419,272; Apr. 22.
- Mark, Jacob G., Brookline, assignor to Dewey and Almy Chemical Company, North Cambridge, Mass. Scale resistant concrete and cement. 2,420,144; May 6.
- Mark, Jacob G., and D. Rubinstein, Brookline, assignors to Dewey and Almy Chemical Company, North Cambridge, Mass. Producing a free-flowing high solids aqueous dispersion of a butadiene-styrene copolymer. 2,418,782; Apr. 8.
- Markarian, Moushy: *See*—  
Brooks, Lester A., and Markarian.
- Markem Machine Company, assignee: *See*—  
Robbins, Charles F.
- Marker, Russell E., Mexico City, Mexico, assignor to Parke, Davis & Company, Detroit, Mich. Steroidal hormone intermediates. 2,418,181; Apr. 1.
- Marker, Russell E., Mexico City, Mexico, assignor to Parke, Davis & Company, Detroit, Mich. Steroidal hormone intermediates and preparation of the same. 2,420,489; May 13.
- Marker, Russell E., Mexico City, Mexico, assignor to Parke, Davis & Company, Detroit, Mich.  $\Delta^6$ -pregnenediols and producing the same. 2,420,490; May 13.
- Marker, Russell E., Mexico City, Mexico, and E. J. Lawson, East Greenbush, N. Y., assignors to Parke, Davis & Company, Detroit, Mich. Preparing progesterone. 2,420,491; May 13.
- Marker, Russell E., Mexico City, Mexico, and E. L. Wittle, assignors to Parke, Davis & Company, Detroit, Mich. Steroid compounds and preparing the same. 2,430,988; Nov. 18.
- Markkula, Raymond F., Los Angeles, Calif. Artificial knee joint. 2,433,571; Dec. 30.
- Markkula, Raymond F., Los Angeles, assignor to American Braces, Oakland, Calif. Leg brace knee lock. 2,433,570; Dec. 30.
- Markman, George F., Renwick, Iowa. Electric fence insulator. 2,423,785; July 8.
- Marks, Alvin, Beechhurst, G. Weiss, Sunnyside, and A. R. Miller, Forest Hills, Long Island, N. Y.; said Weiss and said Miller assignors to said Marks. Impregnating a polyvinyl polarizing sheet with tetraethyl ortho silicate. 2,432,113; Dec. 9.
- Marks, Barnard M.: *See*—  
Christ, Robert E., and Marks.
- Marks, Henry C., Bloomfield, N. J., assignor to Wallace & Tiernan Products, Inc., Belleville, N. J. Detection of oxidizing or reducing substances by electrode depolarization. 2,414,411; Jan. 14.
- Marksberry, Raymond D., assignor of one-third to M. Hughey, Akron, and one-third to R. G. Lutz, Cuyahoga Falls, Ohio. Decalcomania manufacture. 2,426,462; Aug. 26.
- Markus, Frederick E., Belmont, Mass. Furniture. 2,428,087; Sept. 30.
- Markus, Peter: *See*—  
Veszi, Gabor A., and Markus.
- Markwood, Paul W., assignor to American Enka Corporation, Enka, N. C. Unwinding packages of rayon. 2,432,916; Dec. 16.
- Marlet Barrera, José, San Cugat del Valles, Spain. Spool-changing mechanism for looms. 2,429,977; Nov. 4.
- Marley Company, Inc., The, assignee: *See*—  
Ketchum, Eugene R.
- Mart, Leon T.
- Marlin Firearms Company, The, assignee: *See*—  
Jenkinson, Robert L.
- Marlo Company, assignee: *See*—  
Menzl, Leon.
- Marman Products Company, Inc., assignee: *See*—  
Woolsey, Theodore A.
- Maron, Irving M., assignee: *See*—  
Deutsch, Irving.
- Marple, Kenneth E., E. C. Shokal, and T. W. Evans, Oakland, assignors to Shell Development Company, San Francisco, Calif. Production of aromatic hydroxy ethers. 2,428,235; Sept. 30.
- Marple, Kenneth E., and E. C. Shokal, Oakland, assignors to Shell Development Company, San Francisco, Calif. Stabilized polymers of diallyl esters of dicarboxylic acids. 2,433,616; Dec. 30.
- Marquand, Carl B., Columbus, Ohio, and T. W. Kethley, Decatur, Ga. Antivescant preparations. 2,432,114; Dec. 9.
- Marquardt, Otto: *See*—  
Somes, Howard E., Jr., and Marquardt.
- Marquette, Ernest D., St. Albans, Vt. Water heater. 2,419,273; Apr. 22.
- Marquette Metal Products Company, The, assignee: *See*—  
Gleitz, Herbert, Thyreen, and Miller.
- Hardy, Gordon W.
- Sacchini, Columbus R.
- Marquis, Harry G., New York, N. Y. Ice tray appliance. 2,429,521; Oct. 21.
- Marquis, John F., and C. T. Weibler, assignors to Operadio Manufacturing Co., St. Charles, Ill. Electrodynamic loud-speaker. 2,423,037; June 24.
- Marr, George M., New York, N. Y. Electric heater. 2,425,702; Aug. 12.
- Marr, George M., New York, N. Y. Apertured reflector fan-electric heater. 2,433,137; Dec. 23.
- Marrison, Warren A., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Recorder system with electromagnetically attracted electric stylus. 2,433,382; Dec. 30.
- Marrone, John C., Woodbury, Conn., assignor to A. M. Meincke & Son, Inc. Starch for tub sizing paper. 2,433,285; Dec. 23.
- Mars, Albert and M. M., Cleveland, Ohio. Pipe coupling or joint. 2,423,655; July 8.
- Mars, Michael M.: *See*—  
Mars, Albert and M. M.
- Mars, Solomon, New York, N. Y. Shoulder mark. 2,420,257; May 6.
- Marschak, Howard J., Chicago, Ill. Speed computing and map reading device. 2,424,763; July 29.
- Marshall, Alvin A., Chicago, Ill. Chick feeder. 2,430,234; Nov. 4.
- Marseilles, William M., Clinton, Mo. Recoil absorber for guns. 2,420,492; May 13.
- Marsh, Francis E., and L. A. Casanova, Wilkensburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Vapor electric device. 2,422,575; June 17.
- Marsh, Harold A., Boston, Mass., assignor to Link Aviation, Inc., Binghamton, N. Y. Training device. 2,420,048; May 6.
- Marsh, Harry S.: *See*—  
Ross, Elliott P., and Marsh.
- Marsh, John, North Tonawanda, and J. P. Bly, Buffalo, N. Y.; said Bly assignor to said Marsh. Cap applying implement. 2,415,896; Feb. 18.
- Marsh, John T.: *See*—  
Foulds, Robinson P., and Marsh.
- Marshall, Donald E., Allwood, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Ignitron, seal, and making. 2,420,829; May 20.
- Marshall, Donald E., Summit, and F. R. Clark, Leonia, assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Method and apparatus for tight-wrap packaging. 2,424,406; July 22.
- Marshall, Herman R., Carrollton, Ga. Dasher for churns. 2,421,798; June 10.
- Marshall, Joseph C., Baldwin, H. F. May, Valley Stream, and C. S. Whitney, Jr., Brooklyn, assignors to The Teleregister Corporation, New York, N. Y. Printing telegraph station identification transmitter system. 2,419,581; Apr. 29.
- Marshall, Leland S., Dayton, Ohio. Instrument flying trainer attachment for simulating radio static. 2,415,831; Feb. 18.
- Marshall, Leonard J., Tenaflly, N. J., assignor to Combustion Engineering Company, Inc., New York, N. Y. Radiant steam generator. 2,424,476; July 22.
- Marshall, Morris D., Arlington, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Preparation of sols. 2,433,776; Dec. 30.
- Marshall, Morris D., Arlington, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Preparation of sols. 2,433,777; Dec. 30.
- Marshall, Morris D., Arlington, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Preparation of sols. 2,433,778; Dec. 30.
- Marshall, Morris D., Arlington, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Preparation of sols. 2,433,779; Dec. 30.
- Marshall, Morris D., Arlington, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Preparation of hydrocarbon sols. 2,433,780; Dec. 30.
- Marshall, Tola A.: *See*—  
Bonorden, Allen R., Koos, Kreeck, Large, and Marshall.
- Marshall, Tola A., Floral Park, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Circuit for locking service observing teletypewriter during supervisory signal reception. 2,424,244; July 22.
- Marshall, Wilbert P., Cleveland Heights, Ohio. Crystal indexing fixture. 2,416,703; Mar. 4.
- Marshall, William A., Jr., Oak Park, assignor to Stewart-Warner Corporation, Chicago, Ill. Cabin pressure control apparatus. 2,424,764; July 29.
- Marshall, William E., Bethlehem, Pa., assignor to The American Rolling Mill Company, Middletown, Ohio. Apparatus for and method of coating metal strip at high speeds. 2,428,525; Oct. 7.
- Marshall, William E., Bethlehem, Pa., assignor to The American Rolling Mill Company, Middletown, Ohio. Apparatus for hot coating of metal strip and the like. 2,430,474; Nov. 11.



- Marshall, William E., Bethlehem, Pa., assignor to The American Rolling Mill Company, Middletown, Ohio. Hot coating metal strip. 2,430,475; Nov. 11.
- Marshall, William H., Hermosa Beach, Calif. Drinking glass. 2,431,059; Nov. 18.
- Marsilius, Newman M., Bridgeport, Conn. Hand miller. 2,421,459; June 3.
- Marsilius, Newman M., Trumbull, Conn. Milling machine. 2,422,112; June 10.
- Marsilius, Newman M., Trumbull, Conn. Removable guide pin. 2,433,617; Dec. 30.
- Marsland, John E.: *See—*  
Johnson, Ava J., Souders, and Marsland.
- Mart, Leon T., Mission Township, Johnson County, assignor to The Marley Company, Inc., Kansas City, Kans. Flexible coupling. 2,431,409; Nov. 25.
- Martello, Norman E., Turtle Creek, Pa., assignor to Hall Laboratories, Inc., Pittsburgh, Pa. Well drilling mud and process. 2,414,381; Jan. 14.
- Marten, Elmer W., Seattle, Wash. Building construction. 2,419,843; Apr. 29.
- Martenet, Louis, Neuchatel, Switzerland; vested in the Attorney General of the United States. Apparatus for detecting defects in electrical systems. 2,422,644; June 17.
- Martens, Edward R.: *See—*  
Tamm, Robert E., and Martens.
- Martens, Maurice J., East Moline, assignor to Deere & Company, Moline, Ill. Reversible wheel. 2,424,106; July 15.
- Martenson, Carl, Waltham, Mass. Tool for raising overcoils on hair springs. 2,426,404; Aug. 26.
- Marthinsen, Mads, Michigan City, Ind. Antiskid device for vehicles. 2,432,329; Dec. 9.
- Martin, Adolph G., assignee: *See—*  
Kipke, Harry G.
- Martin, Alfred M., Park Ridge, Ill. Loose-leaf binder. 2,421,799; June 10.
- Martin Band Instrument Company, The, assignee: *See—*  
Gillespie, Earl J.
- Martin Brothers Box Co., The, assignee: *See—*  
Cann, Harley S.
- Martin, Carl A., Negaunee, Mich. Primer. 2,423,837; July 15.
- Martin, Charles C., Cleveland Heights, assignor to David Round & Son, Garfield Heights, Ohio. Friction responsive mechanism. 2,414,960; Jan. 28.
- Martin, Charles H., Huntington Park, assignor to H. B. and S. Rapp, Co-partners doing business as Towner Manufacturing Co., Santa Ana, Calif. Tractor-conveyed implement and hitch therefor. 2,414,114; Jan. 14.
- Martin, Charles L., Overland, assignor to Carter Carburetor Corporation, St. Louis, Mo. Dual carburetor. 2,421,800; June 10.
- Martin, Desiax B., Des Moines, Iowa. Automotive power take-off. 2,424,360; July 22.
- Martin, Edward J., Pleasant Ridge, and R. N. Frawley, Phoenix, Ariz., and C. E. Grinstead, Detroit, Mich., assignors to General Motors Corporation. Torque measuring device. 2,415,513; Feb. 11.
- Martin, Emma L., Dunbar, Pa. Washable fabric lunch bag. 2,425,683; Aug. 12.
- Martin, Erle, West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Making bearing bushing on molded blades. 2,423,246; July 1.
- Martin, Erle, West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Propeller feathering control. 2,427,567; Sept. 16.
- Martin, Erle, West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Composite blade. 2,431,184; Nov. 18.
- Martin, Erle, and G. T. Lampton, West Hartford, Conn., and E. E. Vincent, Springfield, Mass., assignors to United Aircraft Corporation, Hartford, Conn. Aluminum propeller blade with steel shank. 2,418,418; Apr. 1.
- Martin, Esidore: *See—*  
Stewart, William H., and Martin.
- Martin Fireproofing Corporation, assignee: *See—*  
Belko, Lloyd S.
- Martin, Frank S., Providence, R. I., assignor to United States Rubber Company, New York, N. Y. Vinyl resin compositions containing factice. 2,426,316; Aug. 26.
- Martin, Frederick C., Guttenberg, N. J. Producing tall oil drying oils. 2,421,842; June 10.
- Martin, Friedrich, Mulheim-Ruhr, and W. Gottschall and H. Velde, Oberhausen-Holten, Germany; vested in the Attorney General of the United States. Refining hydrocarbon mixtures. 2,422,627; June 17.
- Martin, George, New Hyde Park, N. Y. Wheeled mobile container apparatus. 2,425,107; Aug. 5.
- Martin, Glenn L., Company, The, assignee: *See—*  
Elliott, Daniel S.  
Engelhardt, Richard A.  
Floyd, J. F. Babardy.  
Gammack, James.  
Gray, Reid B., and De Weese.  
Griswold, Owen H.  
Hill, Thomas C.  
Larsen, Agnew E.  
Miller, Leslie T., Salmon, and Zitzla.  
Sorg, Earl H.  
Taylor, Thomas L., and Bell.  
Veit, Hermann E., and Miles.  
Weber, Louis.
- Martin, Gustav J.: *See—*  
Urist, Harold, and Martin.
- Martin, Harold M., Schenectady, N. Y., assignor to General Electric Company. Rotation indicating signal system and control device. 2,422,973; June 24.
- Martin, Henry, and O. Neracher, assignors to the firm of J. R. Geigy A. G., Basel, Switzerland. Manufacture of 4-aminobenzene-N<sup>2</sup>-(3',4'-Dimethylbenzoyl)-sulfonamide. 2,417,004; Mar. 4.
- Martin, Henry, and F. Häfliger, assignors to J. R. Geigy A. G., Basel, Switzerland. Manufacture of P-aminobenzene sulfone-N<sup>2</sup>-acylamides. 2,417,005; Mar. 4.
- Martin, Henry, F. Häfliger, and O. Neracher, assignors to J. R. Geigy A. G., Basel, Switzerland. Manufacture of acylsulfonamides. 2,417,006; Mar. 4.
- Martin, Henry, and A. Margot, assignors to the firm J. R. Geigy A. G., Basel, Switzerland. Basic esters of monoalkyl isobutyl acetic acids. 2,417,208; Mar. 11.
- Martin, Henry, F. Häfliger, and K. Gätzl, assignors to the firm J. R. Geigy A. G., Basel, Switzerland. Alpha-substituted aralkyl esters of amino carboxylic acids. 2,417,773; Mar. 18.
- Martin, Henry, Basel, H. H. Zaeslin, Riehen, near Basel, R. Hirt, and A. Staub, assignors to J. R. Geigy A. G., Basel, Switzerland. Preparation of halogen substituted aminoarylsulphonic acid derivatives. 2,424,477; July 22.
- Martin, Henry, and F. Häfliger, assignors to J. R. Geigy A. G., Basel, Switzerland. Basic derivatives of  $\alpha$ -substituted aryloxy acetic acids and their manufacture. 2,428,978; Oct. 14.
- Martin, Henry, and R. Hirt, assignors to J. R. Geigy A. G., Basel, Switzerland. P-aminobenzene-sulfonamides and their manufacture. 2,429,207; Oct. 21.
- Martin, Henry, and H. Gysin, assignors to J. R. Geigy A. G., Basel, Switzerland. N<sup>2</sup>(alpha, alpha-dimethyl, beta-phenyl-propionyl) sulfanilamides. 2,429,835; Oct. 28.
- Martin, Henry K., Ironwood, Mich., assignor to Reserve Mining Company, Babbitt, Minn. Magnetic dewatering and concentrating means for magnetic separators. 2,422,113; June 10.
- Martin, Homer Z.: *See—*  
Campbell, Donald L.  
Murphree, Eger V., Tyson, Campbell, and Martin.  
Ogorzaly, Henry J., Martin, and Marancik.  
Tyson, Charles W., Campbell, Martin, and Murphree.
- Martin, Homer Z., Cranford, N. J., assignor to Standard Oil Development Company. Catalytic reactions. 2,414,883; Jan. 28.
- Martin, Homer Z., Roselle, N. J., assignor to Standard Oil Development Company. Catalytic hydrocarbon conversion starting up procedure. 2,420,049; May 6.
- Martin-Hurst, William F. F.: *See—*  
Green, William E., and Martin-Hurst.
- Martin-Hurst, William F. F., Sunbury-on-Thames, England. Thermostatic device for controlling for cooling purposes, the flow of fluids. 2,423,398; July 1.
- Martin, James, Higher Denham, near Uxbridge, England. Mechanism for retracting and automatically locking undercarriages of aircraft. 2,422,576; June 17.
- Martin, James, Higher Denham, near Uxbridge, England. Retractable undercarriage for aircraft. 2,422,577; June 17.
- Martin, James, Higher Denham, near Uxbridge, England. Hood for the cockpits of aeroplanes. 2,424,245; July 22.
- Martin, James L.: *See—*  
Breakfield, Durward E., and Martin.
- Martin, James V., Rochelle Park, N. J. Steel spring tire. 2,432,672; Dec. 16.
- Martin, Jesse A., North Little Rock, Ark. Railroad tie. 2,431,133; Nov. 18.
- Martin, John: *See—*  
Holt, Ray G., and Martin.
- Martin, Joseph C., U. S. Army. Retractable aircraft undercarriage. 2,413,986; Jan. 7.
- Martin, Margaret J., assignee: *See—*  
Martin, Stoddard B.
- Martin, Mervin E.: *See—*  
Haney, Clifford I., and Martin.  
Haney, Clifford I., Martin, and Rosenthal.  
Seymour, George M., and Martin.
- Martin-Parry Corporation, assignee: *See—*  
Buquor, Adolph P.
- Martin, Perry S.: *See—*  
Klein, Gustav, and Martin.
- Martin, Philip W., Huntington Park, Calif. Externally fired perforating gun. 2,433,231; Dec. 23.
- Martin, Samuel M.: *See—*  
Frankwich, Alexander C., and Martin.
- Martin, Sida S., executrix: *See—*  
Boynton, Alexander.
- Martin, Sidney L., and C. F. P. Bovington, London, England, assignors, by mesne assignments, to General Electric Company, Schenectady, N. Y. Electric incandescent lamp getter. 2,431,185; Nov. 18.
- Martin, Stoddard B., Cleveland, Ohio; Central National Bank of Cleveland, executor of said S. B. Martin, deceased, assignor to M. J. Martin. Pusher. 2,433,230; Dec. 23.
- Martin, Stuart T., Jr., Arlington, Va., assignor to Radio Corporation of America. Cavity resonator magnetron. 2,422,028; June 10.



- Martin, Thomas B.: *See*—  
Haines, John F., and Martin.
- Martin, Thomas B., and K. L. Berninger, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Dual rotation propeller. 2,421,514; June 3.
- Martin, Thomas S., Ferndale, Mich. Lawn sprinkler. 2,414,052; Jan. 7.
- Martin, Valentine, New York, N. Y. Clip and earring combined. 2,416,588; Feb. 25.
- Martin, W. H., assignee: *See*—  
Wahle, Adolph.
- Martin, Wade B., Ramsey, N. J., assignor to American Telephone and Telegraph Company. Apparatus for indicating teletypewriter speeds. 2,421,954; June 10.
- Martin, Walter R., L. Linder, and H. J. Blythe, Long Beach, Calif., assignors, by mesne assignments, to said Martin. Crane weight and radius indicator. 2,418,593; Apr. 8.
- Martin, William, Dayton, Ohio. Expanding tool and flexible shaft for removing dents from tubing. 2,423,458; July 8.
- Martin, William O., assignor to William O. Martin, Inc., Fort Smith, Ark. Brake slack adjuster. 2,433,139; Dec. 23.
- Martin, William O., Inc., assignee: *See*—  
Martin, William O.
- Martindale, John W. *See*—  
Westfahl, Jerome C., Sears, and Martindale.
- Martinek, Anthony: *See*—  
McKay, Herbert C., Martinek, and Foster.
- Martinez, John M.: *See*—  
Franz, Arvel O., Martinez, and Koppelman.
- Martinez, Pedro F., Barcelona, Spain. Apparatus for twisting and winding yarn. 2,431,617; Nov. 25.
- Martinson, John N., assignee, et al., trustee: *See*—  
Melrose, Adolph E.
- Marton, Ladislaus, Menlo Heights, Calif., assignor to Research Corporation, New York, N. Y. Electron beam monochromator. 2,429,558; Oct. 21.
- Marty, Amos R., Springfield, Ohio. Hygienic vibrator. 2,413,879; Jan. 7.
- Marty, Amos R., Marion, Ohio. Manual massaging device. 2,424,699; July 29.
- Marty, Frank A., Flushing, N. Y. Masking paper such as for lithography. 2,429,271; Oct. 21.
- Marty, Meinrad, Zurich, assignor to E. Merian, Basel, Switzerland. Body with movable parts. 2,421,279; May 27.
- Martz, William M., Indianapolis, Ind., assignor to General Motors Corporation, Detroit, Mich. Formation of a strong bond between a ferrous metal surface and an electrodeposit of silver. 2,431,947; Dec. 2.
- Martz, William M., Indianapolis, Ind., assignor to General Motors Corporation, Detroit, Mich. Apparatus for electrodepositing metal on bearing shells and the like. 2,431,948; Dec. 2.
- Martz, William M., Indianapolis, Ind., assignor to General Motors Corporation, Detroit, Mich. Apparatus for electrodepositing the inside of bearing shells and the like. 2,431,949; Dec. 2.
- Marvel Engineering Company, assignee: *See*—  
Newman, Walter J.
- Marvel Equipment Corporation, assignee: *See*—  
Floraday, Burton S.
- Marvill Package Company, assignee: *See*—  
Hamill, Ray E.
- Marvin, Fred, Barberton, Ohio. Fruit picker. 2,415,648; Feb. 11.
- Marx, Joseph P., Hartford, Wis. Muffler. 2,416,452; Feb. 25.
- Marx, Louis, & Company, Inc., assignee: *See*—  
Campbell, Laurie J.
- Maryland Baking Company, Inc., assignee: *See*—  
Cutler, Jacob.
- Glassner, Mitchell.
- Maryland Paper Products Company, Inc., assignee: *See*—  
Moore, Paul C., Jr.
- Maryland Plastics, Inc., assignee: *See*—  
Davis, Samuel R.
- Marziani, Joseph, Philadelphia, Pa. Heat and pressure applying device. 2,414,157; Jan. 14.
- Masbruch, Henry, Platteville, Wis. Halter. 2,422,308; June 17.
- Maschinenfabrik H. Hauser A.-G., assignee: *See*—  
Butscher, Karl.
- Maschinenfabrik Oerlikon, assignee: *See*—  
Gantenbein, Andreas, and Jackle.
- Maschinenfabrik Scharer, assignee: *See*—  
Siegenthaler, Walter.
- Storsand, Bjarne.
- Masci, Joseph N., New Brunswick, N. J., assignor to Johnson & Johnson. Producing sterile packages. 2,433,056; Dec. 23.
- Masich, Anthony M., Winston-Salem, N. C. Adjustable guide for conveyor systems. 2,425,158; Aug. 5.
- Maskell, Thomas W., assignee: *See*—  
Miller, Harry A.
- Maskey, James J.: *See*—  
Manson, Frank G., and Maskey.
- Maskey, James J., Detroit, Mich. Release coupling for parachutes. 2,422,839; June 24.
- Maslin, Philip S.: *See*—  
Brown, Donald P., and Maslin.
- Mason, Arthur C., Paterson, N. J. Machine for forming spherical bodies. 2,413,880; Jan. 7.
- Mason Box Company, The, assignee: *See*—  
Rhodes, Russell I.
- Mason, Charles R., Ballston Spa, and L. A. Burton, Schenectady, N. Y., assignors to General Electric Company. Electromagnetic device. 2,414,961; Jan. 28.
- Mason, Collins, Beverly Hills, Calif. Fruit juice extractor. 2,419,688; Apr. 29.
- Mason, Edwin W., Wyckoff, N. J. Printing tape dispenser. 2,432,202; Dec. 9.
- Mason, Frank E.: *See*—  
Renouf, Ralph R., and Mason.
- Mason, Frank E., Seattle, Wash. Petroleum product cracking apparatus. 2,431,060; Nov. 18.
- Mason, J. H., assignee, et al.: *See*—  
Matthews, Jessie R., and Davidson.
- Mason, P. H., assignee, et al.: *See*—  
Matthews, Jessie R., and Davidson.
- Mason, Robert C., Pittsburgh, Pa. Tire cross chain. 2,424,478; July 22.
- Mason, Ruric C., Wilkesburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Mercury vapor tube. 2,427,732; Sept. 23.
- Mason, W. D., assignee, et al.: *See*—  
Matthews, Jessie R., and Davidson.
- Mason, Warren P.: *See*—  
Bond, Walter L., and Mason.
- Hall, John A., and Mason.
- Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave filter. 2,414,115; Jan. 14.
- Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Compressional wave radiator and receiver. 2,414,827; Jan. 28.
- Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Radiation absorber. 2,415,832; Feb. 18.
- Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Vibration damping circuit. 2,416,337; Feb. 25.
- Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency selective system. 2,416,338; Feb. 25.
- Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Piezoelectric crystal mounting. 2,417,426; Mar. 18.
- Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave transmission network. 2,421,033; May 27.
- Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Prismatic radiating navigational system. 2,422,691; June 24.
- Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency selective apparatus. 2,423,459; July 8.
- Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency-modulated crystal oscillator. 2,424,246; July 22.
- Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Oscillator. 2,424,576; July 29.
- Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave transmission networks. 2,426,633; Sept. 2.
- Mason, Warren P., West Orange, and H. J. McSkimin, Lyndhurst, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Crystal microphone. 2,433,383; Dec. 30.
- Masonite Corporation, assignee: *See*—  
Boehm, Robert M., and Hall.
- Boehm, Robert M., Hall, and MacDonald.
- Boehm, Robert M., and Ladon.
- Spence, Oswald.
- Varner, Alvie E., and Pettingill.
- Mass, Morris, New York, N. Y. Colorimeter. 2,421,344; May 27.
- Massa, Frank, Cleveland Heights, Ohio, assignor to Radio Corporation of America. Apparatus for locating sound sources. 2,414,695; Jan. 21.
- Massa, Frank, Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Vibrational energy transmitter or receiver. 2,427,062; Sept. 9.
- Massecar, Aubrey W., Huntington Park, assignor to E. M. Massecar, Los Angeles, Calif. Automatic shut-off valve. 2,426,364; Aug. 26.
- Massecar, Ester M., assignee: *See*—  
Massecar, Aubrey W.
- Massey-Harris Co. Ltd., assignee: *See*—  
Carroll, Thomas.
- Johnston, Howard M.
- Massierer, Walter, Philadelphia, Pa. Special purpose chuck. 2,428,375; Oct. 7.
- Massion, Jack, Los Angeles, Calif. Lather maker. 2,413,925; Jan. 7.
- Massonneau, Robert F., Scarsdale, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Counting circuit. 2,417,427; Mar. 18.



- Mast, Gifford M., and E. R. Sharp, assignors to The Jam Handy Organization, Inc., Detroit, Mich. Adjustable lens mount for projection apparatus. 2,429,164; Oct. 14.
- Master Electric Company, The, assignee: *See*—  
Beeman, Lyle  
Carlson, John T.
- Masters, Robert W., Erlton, N. J., assignor to Radio Corporation of America. Antenna. 2,430,353; Nov. 4.
- Masterson, Norma B., Pittsfield, Mass., and E. A. Gould, Cleveland, Ohio. Convertible and demountable gymnastic chair. 2,429,939; Oct. 28.
- Matarazzo, Ralph F., Medford, Mass. Preserving peeled white potatoes. 2,420,322; May 13.
- Matheny, Harry R., Highland Park, and R. Keefer, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Track for track-laying vehicles. 2,430,354; Nov. 4.
- Matheny, Willard R., assignor to N. F. Hamly, Chicago, Ill. Composite weatherstrip. 2,419,322; Apr. 22.
- Mather, Irwin E., and A. C. Allen, Chicago, and S. J. Budlane, Moline, assignors to Stewart-Warner Corporation, Chicago, Ill. Rate changing mechanism. 2,416,453; Feb. 25.
- Mathes, Richard E.: *See*—  
Anderson, Warren A., and Mathes.
- Mathes, Richard E., Silver Spring, Md., assignor to Radio Corporation of America. Producing smooth acceleration in positive drive clutches. 2,427,292; Sept. 9.
- Mathes, Robert C., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relay. 2,414,476; Jan. 21.
- Mathes, Roger A.: *See*—  
Jones, Paul C., and Mathes.
- Mathes, Roger A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Reaction product of alkyleneimine with ammonium dithiocarbamate. 2,422,578; June 17.
- Matheson, Lorne A., and R. F. Boyer, assignors to The Dow Chemical Company, Midland, Mich. Vinylidene chloride polymer compositions stable to light. 2,429,165; Oct. 14.
- Mathewson, Wilfred B., North Weymouth, assignor to United Mattress Machinery Co. Inc., Quincy, Mass. Tufting button. 2,421,280; May 27.
- Mathey, Alcide E.: *See*—  
Scully, Frank P., and Mathey.
- Mathey, Joseph W., assignor to Truscon Steel Company, Youngstown, Ohio. Joint and forming the same. 2,416,458; Feb. 25.
- Mathieson Alkali Works, Inc., The, assignee: *See*—  
Erickson, Edwin R., and Michalek.  
Gardiner, William C.  
Hampel, Clifford A.  
Hutchinson, Willis S., and Derby.  
Leonard, Laurence E.  
MacMullin, Robert B.  
Richardson, Chester N.  
Soule, Edward C., and Robson.  
Stossel, Ernest, and Zerner.  
Taylor, Maurice C.  
Vincent, George P.  
Weiler, John E.
- Mathis, Waddy T., Hamden, Conn. Liquid-measuring dispenser. 2,428,577; Oct. 7.
- Mathot, Suzanne R., assignee: *See*—  
Daiotel, Maurice A.
- Mathys, Max A., assignor to Ex-Cell-O Corporation, Detroit, Mich. Hydraulic power unit. 2,416,339; Feb. 25.
- Mathys, Max A., assignor to Ex-Cell-O Corporation, Detroit, Mich. Hydraulic control system for machine tools and the like. 2,427,970; Sept. 23.
- Matlack, Thomas M., and G. D. Hutchinson, Jamesburg, N. J. Dishwasher. 2,418,360; Apr. 1.
- Matlock, Henry W.: *See*—  
Walton, George M., and Matlock.
- Matlock, Henry W., Garfield Heights, assignor to Air-Maze Corporation, Cleveland, Ohio. Liquid filter valve structure. 2,430,578; Nov. 11.
- Matlock, John D., Hope, assignor of fifty per cent to W. T. Matlock, Arkadelphia, Ark. Service brake mechanism and brake-controlled driving motor vehicles. 2,426,365; Aug. 26.
- Matlock, William T., assignee: *See*—  
Matlock, John D.
- Matney, C. M., assignee, et al.: *See*—  
Hartsfield, Frank E.
- Matson, Ivan M., Los Angeles, Calif. Bypass for luminous tube signs. 2,423,197; July 1.
- Matson, Leslie E., Jr.: *See*—  
Lesnick, Robert N., and Matson.
- Matson, Rudolph M., St. Paul, Minn. Cube cutting apparatus. 2,429,559; Oct. 21.
- Matuszak, Maryan P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Liquid-vaporizing unit. 2,428,916; Oct. 14.
- Matte, Andrew L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Two-tone radio telegraph transmission bias elimination. 2,427,363; Sept. 16.
- Matter, Albert J., Park Ridge, Ill. Quick latch jig. 2,422,114; June 10.
- Matteson, Arch R., and P. G. Hebner, Seattle, Wash. Cigarette maker. 2,425,888; Aug. 19.
- Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley wire support and attachment therefor. 2,426,151; Aug. 19.
- Matthews, Arthur F., Ferguson, R. D. McClure, and E. Siroky, University City, Mo., assignors to Curtiss-Wright Corporation. Engine combustion air control system. 2,429,208; Oct. 21.
- Matthews, Benjamin H.: *See*—  
Wilson, Robert A., and Matthews.
- Matthews, Bryan H. C., Cambridge, England. Apparatus for effecting navigational calculations. 2,424,178; July 15.
- Matthews, George A., assignor to The Detroit Edison Company, Detroit, Mich. Apparatus for protecting power lines. Re. 22,872; Apr. 29.
- Matthews, George A., assignor to The Detroit Edison Company, Detroit, Mich. Electrical distribution system. Re. 22,873; Apr. 29.
- Matthews, Jas. H., & Co., assignee: *See*—  
King, William R.
- Matthews, Jessie R., and W. A. Davidson, assignors of seventeen one-hundredths to P. H. Mason, W. D. Mason, and J. H. Mason, Norfolk, Va. Object marker. 2,422,115; June 10.
- Matthews, W. N., Corporation, assignee: *See*—  
Birkenmaier, Theodore.
- Matthies, William H., Hackensack, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Time controlled register for automatic telephone systems. 2,428,376; Oct. 7.
- Matthysse, Irving F.: *See*—  
Rogoff, Julian, and Matthysse.
- Matthysse, Irving F., New York, N. Y., assignor to Burndy Engineering Company, Inc. Insulator supported adjustable bus clamp. 2,415,649; Feb. 11.
- Mattias, Anthony J., Crompton, and H. J. Fish, Nooseneck Hill, R. I. Drilling jig. 2,430,025; Nov. 4.
- Mattikow, Morris, New York, N. Y., assignor, by mesne assignments, to B. Clayton, Houston, Tex., doing business as Refining Unincorporated. Refining of glyceride oils and recovery of byproducts. 2,415,301; Feb. 4.
- Mattox, William J.: *See*—  
Benedict, Wayne L., and Mattox.
- Mattox, William J., assignor to Universal Oil Products Company, Chicago, Ill. Manufacture of butadienes. 2,414,962; Jan. 28.
- Mattox, William J., La Grange, assignor to Universal Oil Products Company, Chicago, Ill. Manufacture of a polycyclic hydrocarbon. 2,420,143; May 6.
- Mattox, William J., La Grange, assignor to Universal Oil Products Company, Chicago, Ill. Catalytic reforming of mixed gasolines. 2,427,800; Sept. 23.
- Mattox, William J., La Grange, assignor to Universal Oil Products Company, Chicago, Ill. Manufacture of polycyclic hydrocarbons. 2,431,763; Dec. 2.
- Mattox, William J., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Conversion of a normally gaseous olefin other than ethylene to isobutane. 2,422,692; June 24.
- Mattson, David W., Minneapolis, Minn. Bottle carrier. 2,415,598; Feb. 11.
- Matulaitis, Victor E., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Power transmission control means. 2,425,889; Aug. 19.
- Matulaitis, Victor E., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Power transmission control means. 2,425,890; Aug. 19.
- Matuszak, Maryan P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Purification of hydrofluoric acid. 2,414,884; Jan. 28.
- Matuszak, Maryan P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Alkylation of hydrocarbons. 2,416,013; Feb. 18.
- Matuszak, Maryan P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Preparation of catalysts comprising supported chromium oxide. 2,418,270; Apr. 1.
- Matuszak, Maryan P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Alkylation of isoparaffins by means of normal olefins in the presence of hydrofluoric acid. 2,426,559; Aug. 26.
- Matuszak, Maryan P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Alkylation process. 2,427,293; Sept. 9.
- Matuszak, Maryan P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Resolution of aqueous hydrofluoric acid. 2,428,524; Oct. 7.
- Matuszak, Maryan P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of paraffins. 2,432,030; Dec. 2.
- Matuszak, Maryan P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Alkylation process. 2,432,482; Dec. 9.
- Matuszak, Maryan P., Bartlesville, Okla., and G. H. Morey, Terre Haute, Ind., assignors to Phillips Petroleum Company. Chromium oxide catalyst and its preparation. 2,418,309; Apr. 1.
- Maude, John H., Montreal, Quebec, assignor to Dominion Engineering Works Limited, Lachine, Quebec, Canada. Hoist drum. 2,420,050; May 6.
- Maudslay Motor Company Limited, The, assignee: *See*—  
Lightowler, William A.
- Mauerer, Leopold, Chicago, assignor to Jefferson Electric Company, Bellwood, Ill. Core construction for electromagnetic apparatus. 2,431,950; Dec. 2.



- Mauerer, Leopold, Chicago, assignor to Jefferson Electric Company, Bellwood, Ill. Terminal bushing. 2,431,951; Dec. 2.
- Mauge, Marcel R., Boulogne-Billancourt, France, assignor to International Standard Electric Corporation, New York, N. Y. Long distance telephone signaling system. 2,424,577; July 29.
- Maughan, Matthew W., Fairfield, assignor to Remington Arms Company, Inc., Bridgeport, Conn. Incendiary compositions. 2,430,068; Nov. 4.
- Maurer, Elmer E., Cleveland, Ohio. Space heater. 2,432,917; Dec. 16.
- Maurer, J. A., Inc., assignee: *See*—Maurer, John A., Jr.
- Maurer, John A., Jr., assignor to J. A. Maurer, Inc., New York, N. Y. Impulse recording optical system. 2,426,366; Aug. 26.
- Maurer, John A., Jr., assignor to J. A. Maurer, Inc., New York, N. Y. Variable density recording optical system. 2,426,367; Aug. 26.
- Maurer, Spencer B., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Cement or refractory material gun and supply system for same. 2,419,410; Apr. 22.
- Mauro, Eugene, New York, N. Y. Protecting cap. 2,422,116; June 10.
- Mauro, Oswald G.: *See*—Dons, Eddie M., and Mauro.
- Maushardt, Milton R., Piedmont, Calif. Optical device for indicating correct operating speed of phonograph turntables. 2,418,651; Apr. 8.
- Mavity, Julian M., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Metal halide catalysis of hydrocarbons. 2,418,419; Apr. 1.
- Mavor, John B., Glasgow, Scotland, assignor to Joy Manufacturing Company, Franklin, Pa. Apparatus for mining. 2,420,755; May 20.
- Mavor, John B., Glasgow, Scotland, assignor to Joy Manufacturing Company, Franklin, Pa. Mining machine. 2,425,108; Aug. 5.
- Mawdsley's Limited, assignee: *See*—Minchin, Cecil W. H.
- Minchin, Cecil W. H., and Parsons.
- Mawhirter, Glenn E., Pawnee Rock, Kans. Piston and rod connection. 2,427,061; Sept. 9.
- Max, Fritz, Easton, Pa., and D. I. Randall, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Anthrimide carbazole thioxanthenes derived from 3,2-(S)-1'-2'-(S)-6'-halogen thioxanthenes. 2,428,758; Oct. 7.
- Max, Fritz, Easton, Pa., and D. I. Randall, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Anthraquinone thioxanthone carbazoles in which the anthraquinone thioxanthone nucleus is linked to the carbazole nucleus through an amide linkage. 2,428,759; Oct. 7.
- Maxfield, Joseph P., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electromechanical signal translating device. 2,418,132; Apr. 1.
- Maxim, Hiram H., assignor to The Maxim Silencer Company, Hartford, Conn. Snow plow. 2,431,410; Nov. 25.
- Maxim Silencer Company, The, assignee: *See*—Bourne, Roland B.
- Maxim, Hiram H.
- Maxson, Clarence G.: *See*—May, Adam J., and Maxson.
- Maxson, Clarence G., assignor to Ritter Company, Inc., Rochester, N. Y. Headrest. 2,429,472; Oct. 21.
- Maxson, Gordon J.: *See*—Laird, Alfred W., and Maxson.
- Maxson, Gordon J., Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Heat-treating apparatus. 2,413,987; Jan. 7.
- Maxson, Lisle J., and F. B. Gross, U. S. Navy. Catapult. 2,413,723; Jan. 7.
- Maxson, Lisle J., U. S. Navy, and F. B. Gross, Langley, Va. Airplane catapult. 2,413,724; Jan. 7.
- Maxson, W. L., Corporation, The, assignee: *See*—Maxson, William L.
- Maxson, William L., West Orange, N. J., assignor to The W. L. Maxson Corporation, New York, N. Y. Apparatus for cooling under ultra violet radiation and vacuum conditions. 2,425,816; Aug. 19.
- Maxwell, Donald E., Syracuse, N. Y., assignor to General Electric Company. Pulse generating circuit. 2,415,302; Feb. 4.
- Maxwell, Donald E., Syracuse, N. Y., assignor to General Electric Company. Pulse generating circuit. 2,416,111; Feb. 18.
- Maxwell, Donald E., Syracuse, N. Y., assignor to General Electric Company. Pulse generating circuit. 2,431,952; Dec. 2.
- Maxwell, Howard, Schenectady, N. Y., assignor to General Electric Company. Dynamoelectric machine. 2,428,236; Sept. 30.
- Maxwell, James C., Wilmington, N. C. Tie pin. 2,427,468; Sept. 16.
- Maxwell, Kenneth E., Martinez, assignor to Shell Development Company, San Francisco, Calif. Insecticidal compositions. 2,418,652; Apr. 8.
- May, Adam J., and C. G. Maxson, assignors to Ritter Company, Inc., Rochester, N. Y. Headrest means. 2,429,473; Oct. 21.
- May & Baker Limited, assignee: *See*—Barber, Harry J.
- Barber, Harry J., and Wragg.
- Newbery, George, and Easson.
- May, Donald R.: *See*—Dixon, James K., and May.
- May, Donald R., Stamford, and J. K. Dixon, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y. Production of aromatic compounds. 2,422,169; June 10.
- May, Edward, Fort Worth, Tex., assignor to Armour and Company, Chicago, Ill. Knife holder for meat grinders and the like. 2,431,267; Nov. 18.
- May, George, Wembley, assignor to Dufay-Chromex Limited, London, England. Structural element made from paper and like sheets. 2,428,979; Oct. 14.
- May, Harold F.: *See*—Marshall, Joseph C., May, and Whitney.
- May, Harold F., Valley Stream, assignor to The Teleregister Corporation, New York, N. Y. Registering system. 2,432,324; Dec. 9.
- May, John F., Erie, Pa. Garment hanger. 2,422,493; June 17.
- May, Merle H., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Condition responsive device. 2,414,756; Jan. 21.
- May, Richard W., Cedar Rapids, Iowa, assignor to Collins Radio Company. Keying relay. 2,423,838; July 15.
- May, Sam, assignor of one-half to R. T. Moloney, Chicago, Ill. Coin control. 2,426,781; Sept. 2.
- May, Thomas L., assignor, by mesne assignments, to Reliance Hydraulic Press, Inc., New York, N. Y. Press. 2,433,672; Dec. 30.
- Mayberry, John H., Corpus Christi, Tex. Stroboscopic tuning apparatus. 2,415,215; Feb. 4.
- Mayer, Albert A., Little Falls, N. J., assignor to J. F. Trommer, Inc., Brooklyn, N. Y. Shipping carton for bottles. 2,423,332; July 1.
- Mayer, Everett, Detroit, Mich. Fishhook sharpener. 2,426,892; Sept. 2.
- Mayer, George J., New Berlin, Wis. Luggage carrier. 2,425,629; Aug. 12.
- Mayer, Gottfried O., and E. C. Sloan, Madison, Wis., assignors to Oscar Mayer & Co., Inc., Chicago, Ill. Composite food package. 2,424,536; July 22.
- Mayer, John K.: *See*—Reed, Isaac N., and Mayer.
- Mayer, John L., Kansas City, Mo. Window guard. 2,422,840; June 24.
- Mayer, John L., Kansas City, Mo. Refuse bag holder. 2,425,260; Aug. 5.
- Mayer, Julius, Forest Hills, N. Y. Adjustable trouser display form. 2,418,083; Mar. 25.
- Mayer, Leo E., Ephrata, Wash. Rotary valve. 2,433,471; Dec. 30.
- Mayer, Lucien, Erquelinnes, Belgium. Apparatus for surfacing and polishing hard materials. 2,429,418; Oct. 21.
- Mayer, Maurice W., Baytown, Tex., assignor to Standard Oil Development Company. Butylene dehydrogenation process. 2,426,893; Sept. 2.
- Mayer, Michael, Cleveland, Ohio. Spreader tool. 2,424,407; July 22.
- Mayer, Oscar, & Co., Inc., assignee: *See*—Mayer, Gottfried O., and Sloan.
- Mayer, Perry E., Audubon, N. J., assignor to The Sherwin-Williams Company, Cleveland, Ohio. Manufacture of iron hydrate. 2,429,209; Oct. 21.
- Mayer, Richard, New Rochelle, N. Y., assignor to Universal Match Corporation, St. Louis, Mo. Combination cigarette container and lighter. 2,419,458; Apr. 22.
- Mayes, Marjorie, San Francisco, Calif. Table lamp. 2,415,514; Feb. 11.
- Mayes, Martin, Richmond, Mo. Piston and sealing ring therefor. 2,428,031; Sept. 30.
- Mayfield, Herbert D., Middlebourne, W. Va. Musical call signal telephone attachment. 2,431,574; Nov. 25.
- Mayle, Louis F., Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Protective apparatus. 2,433,702; Dec. 30.
- Maynard, Arthur H., assignor to Boston Wire Stitcher Company, Warwick, R. I. Fastener-applying implement. 2,420,258; May 6.
- Maynard, Arthur H., assignor to Boston Wire Stitcher Company, Warwick, R. I. Fastener-applying implement. 2,420,830; May 20.
- Maynard, Carl W., Jr., and E. G. Wiest, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Printing pastes containing new diazamine compounds. 2,416,187; Feb. 18.
- Maynard, Carl W., Jr., and E. G. Wiest, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Diazamine compounds. 2,422,359; June 22.
- Maynard, Thomas V.: *See*—Gay, Harry S., and Maynard.
- Mayne, Robert A., Dayton, Ohio. Blower. 2,419,411; Apr. 11.
- Mayne, Robert A., Dayton, Ohio. Blower. 2,431,648; Nov. 25.
- Mayne, Robert A., Dayton, and H. G. Dybvig, near Dayton, Ohio; said Dybvig assignor to said Mayne. Centrifugal fan. 2,431,647; Nov. 25.
- Mayne, Walter W., and K. A. Murphy, Pasadena, assignors, by mesne assignments, to Pre-Pak Freezer Corporation, Los Angeles, Calif. Apparatus for freezing liquids. 2,426,368; Aug. 26.



- Mayner, Stanley, Cleveland, assignor of one-fourth to T. S. Mayner, Willoughby Township, Lake County, Ohio. Turbine type hydraulic torque converter. 2,432,115; Dec. 9.
- Mayner, Thomas S., assignee: *See*—Mayner, Stanley.
- Mayo, Robert D., Flint, Mich. Lifeboat. 2,431,061; Nov. 18.
- Mays, Emlen G., Howe, Idaho. Automatic unloading device for buckrake hay stackers. 2,431,877; Dec. 2.
- Mays, Wilburt W., Philadelphia, Pa. Bottle closure retainer. 2,418,039; Mar. 25.
- Maytag Company, The, assignee: *See*—Smith, Thomas R.
- Mazzarelli, Augustine M., assignor to H. L. Burkitt, New York, N. Y. Applicator. 2,416,705; Mar. 4.
- Mazzeo, Rocco, Emerson, N. J. Float-valve assemblage. 2,426,782; Sept. 2.
- McAbee, Frances R., assignor to McAbee Industries Incorporated, Westport, Conn. Lady's garment. 2,417,371; Mar. 11.
- McAbee, Frances R., assignor to McAbee Industries, Incorporated, Westport, Conn. Garment. 2,421,955; June 10.
- McAbee Industries, Incorporated, assignee: *See*—McAbee, Frances R.
- McAfee, Jerry, Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons at high cracking temperature. 2,420,145; May 6.
- McAfee, Jerry, Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Conversion of fluid hydrocarbons. 2,422,793; June 24.
- McAlevy, Ambrose: *See*—Hamblet, Clement H., and McAlevy.
- McAlevy, Ambrose, D. E. Strain, and F. S. Chance, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Curing substituted monolefin hydrocarbon polymers with polyvalent metal salts. 2,416,060; Feb. 18.
- McAlevy, Ambrose, D. E. Strain, and F. S. Chance, Jr., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Curing of polymers of substituted monolefinic hydrocarbons with polyvalent metal compounds. 2,416,061; Feb. 18.
- McAlinden, Hugh O.: *See*—Cole, Harold E., McAlinden, and Banks.
- McAllister, Sumner H.: *See*—Cheney, Harry A., and McAllister.
- Crawford, Chester C., Ross, and McAllister.
- McAllister, Sumner H., Lafayette, C. C. Crawford, El Cerrito, and W. E. Ross, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Isomerizing hydrocarbons. 2,417,698; Mar. 18.
- McAllister, Sumner H., Lafayette, Calif., and C. C. Crawford, Bartlesville, Okla., assignors to Shell Development Company, San Francisco, Calif. Isomerizing naphthenes and paraffins in a hydrocarbon mixture. 2,417,699; Mar. 18.
- McAllister, Sumner H., Lafayette, Calif., and C. C. Crawford, Bartlesville, Okla., assignors to Shell Development Company, San Francisco, Calif. Isomerizing paraffins and naphthenes in a mixed feed. 2,420,086; May 6.
- McAnallen, Lee V., Battle Creek, Mich. Pump. 2,432,247; Dec. 9.
- McAninch, Odell G., Lynn, Mass., assignor to General Electric Company. High-frequency thermocouple. 2,431,953; Dec. 2.
- McArthur, Elmer D., Schenectady, N. Y., assignor to General Electric Company. Space resonant system. 2,416,567; Feb. 25.
- McArthur, Elmer D., Schenectady, N. Y., assignor to General Electric Company. Ultra high frequency converter of the space-resonant type. 2,418,518; Apr. 8.
- McArthur, Elmer D., Schenectady, N. Y., assignor to General Electric Company. Ultra high frequency space resonant system. 2,421,635; June 3.
- McArthur, Elmer D., Schenectady, N. Y., assignor to General Electric Company. Ultra high frequency magnetron of the resonator type. 2,423,716; July 8.
- McArthur, Elmer D., Schenectady, and R. J. Bondley, Scotia, N. Y., assignors to General Electric Company. Tunable magnetron. 2,421,636; June 3.
- McArthur, Herbert A., Libertyville, and J. B. Decker, Evanston, assignors, by mesne assignments, to R. Crown, Evanston, Ill. Milking machine pulsator. 2,419,844; Apr. 29.
- McArthur, James E., San Francisco, Calif. Clamp comb. 2,425,435; Aug. 12.
- McArthur, Warren, Bantam, Conn., assignor, by mesne assignments, to Reconstruction Finance Corporation, New York, N. Y. Arm rest. 2,419,412; Apr. 22.
- McArthur, Warren, Bantam, Conn., assignor, by mesne assignments, to Reconstruction Finance Corporation, New York, N. Y. Attaching device. 2,422,693; June 24.
- McArthur, Warren, Bantam, Conn., assignor, by mesne assignments, to Warren McArthur Corporation. Locking device for seats and the like. 2,429,190; Oct. 14.
- McArthur, Warren, Corporation, assignee: *See*—McArthur, Warren.
- McAuliffe, Patrick, New York, N. Y. Musical instrument. 2,425,436; Aug. 12.
- McBee Company, The, assignee: *See*—Connor, Roger.  
Keefe, Lincoln M.  
Welk, Nelson S.  
Welk, Nelson S., and Carpenter.
- McBee, Earl T.: *See*—Ligett, Waldo B., McBee, and Lindgren.
- McBerty, Frank R., Mansfield, assignor to The North Electric Manufacturing Company, Galion, Ohio. Telephone exchange apparatus. 2,415,437; Feb. 11.
- McBeth, Freeman M., Harrisburg, Pa. Blanching machine. 2,418,519; Apr. 8.
- McBride, Jesse E., Highland Park, assignor to Palmer-Bee Company, Detroit, Mich. Apron conveyer. 2,416,634; Feb. 25.
- McBride, John W., Burbank, Calif. Stringed instrument. 2,422,360; June 17.
- McBride, Lewis M., Arcadia, Calif. Knife sharpener. 2,432,534; Dec. 16.
- McBride, Lewis M., Arcadia, Calif. Knife sharpener. 2,432,535; Dec. 16.
- McCabe, Albert P.: *See*—Harrison, Edgar, and McCabe.
- McCabe, Russell, assignor to The Udylyte Corporation, Detroit, Mich. Tool head. 2,424,479; July 22.
- McCaffrey, Marion P., assignee, et al.: *See*—Coleman, Clarence C.
- McCaffrey Ruddock Tagline Corporation, The, assignee: *See*—Ruddock, William.
- McCaban, John H., Canton, Ohio. Shoe insole construction. 2,424,107; July 15.
- McCaleb, John D., Baltimore, and J. J. Reis, Jr., Catonsville, Md., assignors to Pittsburgh Plate Glass Company. Dissolving cellulosic esters. 2,421,897; June 10.
- McCalla, David, Wisconsin Rapids, Wis. Bottle carrier. 2,419,413; Apr. 22.
- McCandless, William, Toledo, Ohio. Float operated rheostat. 2,423,603; July 8.
- McCann, Charles S., assignor to Walker Manufacturing Company of Wisconsin, Racine, Wis. Oil filter. 2,427,733; Sept. 23.
- McCann, Chris, Roseburg, Ore. Gauge for measuring chest expansion. 2,428,980; Oct. 14.
- McCann, Gilbert D., Jr., Pittsburgh, and H. E. Criner, Forest Hills, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Analyzer. 2,420,891; May 20.
- McCann, Gordon, Oakland, Calif. Water heating and steam generating unit. 2,427,150; Sept. 9.
- McCann, John F., Longmeadow, Mass., assignor to Chain Belt Company, Milwaukee, Wis. Chain bushing and side plate construction. 2,431,702; Dec. 2.
- McCann, John F., Longmeadow, Mass., assignor to Chain Belt Company, Milwaukee, Wis. Chain construction. 2,431,764; Dec. 2.
- McCann, Judith, New York, N. Y. Earring. 2,414,382; Jan. 14.
- McCann, Ronald A., Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway switch and signal control and interlocking apparatus. 2,425,109; Aug. 5.
- McCarl, Howard H., Sheffield, Ala. Protective cuff. 2,425,333; Aug. 12.
- McCarter, John J.: *See*—Bennett, James B., and McCarter.
- McCarter, William L., Hanford, Calif., assignor of one-half to C. H. Farrington, Portland, Ore. Mounting and registering printing elements. 2,428,428; Oct. 7.
- McCarthy, Henry J., Danvers, assignor to Sylvania Electric Products Inc., Salem, Mass. Electrode construction for high-frequency electronic devices. 2,419,903; Apr. 29.
- McCarthy, Henry J., Danvers, assignor to Sylvania Electric Products Inc., Salem, Mass. Glass to metal seal. 2,422,628; June 17.
- McCarthy, Henry J., Danvers, assignor to Sylvania Electric Products Inc., Salem, Mass. Ultra high frequency tube of the resonator type. 2,423,426; July 1.
- McCarthy, Henry J., Danvers, assignor to Sylvania Electric Products Inc., Salem, Mass. Electric discharge lamp and starting device. 2,426,229; Aug. 26.
- McCarthy, John A., Beverly Hills, Calif. Hanger. 2,417,397; Mar. 11.
- McCarthy, Joseph L., Seattle, Wash. Production of useful products by micro-organisms acting upon prepared sulfite waste liquor. 2,430,355; Nov. 4.
- McCarthy, Patrick G.: *See*—Lynam, John E., and McCarthy.
- McCarthy, Patrick J., Los Angeles, Calif. Juicer. 2,414,053; Jan. 7.
- McCarthy, Paul R., and E. S. Francis, Allison Park, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Corrosion preventive compositions. 2,433,572; Dec. 30.
- McCarthy, Timothy F., Indiana, Pa. Scraper loader apparatus. 2,414,412; Jan. 14.
- McCart, Everett B., Alton, Ill. Unloading and loading apparatus. 2,417,700; Mar. 18.
- McCart, John O., U. S. Navy. Optical aligner. 2,425,750; Aug. 19.
- McCart, Lourdes V.: *See*—Johnson, Roy W., McCart, and Pawelsky.



- McCarty, Lourdes V., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Mounting means. 2,414,236; Jan. 14.
- McCaskell, William M., Los Angeles, Calif. Float type water heater. 2,432,918; Dec. 16.
- McCasky Register Company, The, assignee: *See*—West, Fletcher L.
- McCaslin, James F., Cleveland, Ohio. Trigger pull for small arms. 2,424,247; July 22.
- McCaslin, W. L.: *See*—Dyrek, John E., and McCaslin.
- McCaughy, Joseph, assignor to Abbotts Dairies, Incorporated, Philadelphia, Pa. Nut applicator. 2,433,140; Dec. 23.
- McChesney, Cuyler S., Kenmore, assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y. Tire element supply mechanism. 2,418,783; Apr. 8.
- McClain, Edward F., Jr., Washington, D. C. Phonograph reproducer. 2,430,476; Nov. 11.
- McClain, Joseph W., Schenectady, N. Y., assignor to General Electric Company. Current responsive switch. 2,426,038; Aug. 19.
- McClain, Joseph W., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 2,432,782; Dec. 16.
- McClain, Marvin P., Richmond, Va., assignor of one-half to J. N. Johnson, Baltimore, Md. Fastening device. 2,422,841; June 24.
- McClary, Harold W., assignor to Washington Veneer Company, Olympia, Wash. Production of plywood products. 2,418,233; Apr. 1.
- McClatchey, Marvin R., Jr., Atlanta, Ga. Shipping tags, labels or the like and method of making the same. 2,424,621; July 29.
- McCleary, Rush F., and S. M. Roberts, Beacon, assignors, by mesne assignments, to The Texas Company, New York, N. Y. Composition of matter. 2,417,118; Mar. 11.
- McClellan, Cyril E., Catonsville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. High-efficiency multivibrator circuits. 2,416,188; Feb. 18.
- McClellan, Cyril E., Catonsville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Reflector for electromagnetic radiation. 2,422,579; June 17.
- McClellan, Cyril E., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Frequency modulation detector. 2,420,892; May 20.
- McClellan, Marcus E., and J. R. West, assignors to Dain Manufacturing Co. of Iowa, Ottumwa, Iowa. Plunger for baling presses. 2,428,672; Oct. 7.
- McClelland, William H.: *See*—Miller, Fred M., Shape, McClelland, and Fay.
- McClew, John W., and O. A. Pearce, Liverpool, England, assignors to Automatic Electric Laboratories, Inc., Chicago, Ill. Relay allotter for finder switches. 2,424,281; July 22.
- McClintock, Raymond K., Emporium, Pa. Gas turbine. 2,419,689; Apr. 29.
- McClure, Carroll D., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Timing device for recorders. 2,424,622; July 29.
- McClure, Daniel R., Jr., Los Angeles, Calif. Mechanical toy. 2,423,198; July 1.
- McClure, Glenn T., McKeesport, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake apparatus. 2,424,480; July 22.
- McClure, Robert D., Jr.: *See*—Matthews, Arthur F., McClure, and Siroky.
- McClure, Robert W., San Diego, Calif. Chisel. 2,422,202; June 17.
- McCollough, Jack A.: *See*—Eitel, William W., and McCollough.
- McCollum, Henry J. D.: *See*—Williams, Lynn A., Jr., and McCollum.
- McCollum, Henry J. D., deceased; T. McCollum, executrix, assignor to Stewart-Warner Corporation, Chicago, Ill. Heating system. 2,414,828; Jan. 28.
- McCollum, Henry J. D., deceased; T. McCollum, executrix, assignor to Stewart-Warner Corporation, Chicago, Ill. Heating apparatus. 2,414,829; Jan. 28.
- McCollum, Henry J. D., deceased; T. McCollum, executrix, assignor to Stewart-Warner Corporation, Chicago, Ill. Self-operated internal-combustion heater for heating air. 2,414,830; Jan. 28.
- McCollum, Henry J. D., deceased; T. McCollum, executrix, assignor to Stewart-Warner Corporation, Chicago, Ill. Self-operated forced air heater. 2,415,064; Jan. 28.
- McCollum, Henry J. D., deceased; T. McCollum, executrix, assignor to Stewart-Warner Corporation, Chicago, Ill. Altitude compensating heating system. 2,416,935; Mar. 4.
- McCollum, Henry J. D., deceased; T. McCollum, executrix, assignor to Stewart-Warner Corporation, Chicago, Ill. Cast internal-combustion heater for heating air. 2,417,315; Mar. 11.
- McCollum, Henry J. D., deceased; T. McCollum, executrix, assignor to Stewart-Warner Corporation, Chicago, Ill. Internal-combustion heater. 2,417,603; Mar. 18.
- McCollum, Henry J. D., deceased; T. McCollum, executrix, assignor to Stewart-Warner Corporation, Chicago, Ill. Heater having means for diverting and igniting a fuel-air mixture. 2,417,604; Mar. 18.
- McCollum, Henry J. D., deceased; T. McCollum, executrix, assignor to Stewart-Warner Corporation, Chicago, Ill. Air heater having air temperature responsive ignition control. 2,418,182; Apr. 1.
- McCollum, Henry J. D., deceased; T. McCollum, executrix, assignor to Stewart-Warner Corporation, Chicago, Ill. Aircraft heater with air-driven fuel pump. 2,418,720; Apr. 8.
- McCollum, Henry J. D., deceased; T. McCollum, executrix, assignor to Stewart-Warner Corporation, Chicago, Ill. Wall-mounted ram-type aircraft heater. 2,422,694; June 24.
- McCollum, Henry J. D., deceased; T. McCollum, executrix, assignor to Stewart-Warner Corporation, Chicago, Ill. Hot-air heater having means to re-circulate cooled gases. 2,424,765; July 29.
- McCollum, Henry J. D., deceased; T. McCollum, executrix, assignor to Stewart-Warner Corporation, Chicago, Ill. Internal-combustion airplane heater. 2,425,630; Aug. 12.
- McCollum, Henry J. D., deceased; Thelma McCollum, executrix, assignor to Stewart-Warner Corporation, Chicago, Ill. Aircraft heating apparatus. 2,427,221; Sept. 9.
- McCollum, Henry J. D., deceased; T. McCollum, executrix, assignor to Stewart-Warner Corporation, Chicago, Ill. Fluid fuel internal-combustion air heater. 2,433,618; Dec. 30.
- McCollum, John, Oakland, Calif. Cargo moving device. 2,420,001; May 6.
- McCollum, Thelma, executrix: *See*—McCollum, Henry J. D.
- Williams, Lynn A., Jr., and McCollum.
- McComb, David J., Emsworth, Pa., assignor to Curtiss-Wright Corporation. Manufacture of propeller blades. 2,421,956; June 10.
- McCombie, Horace R., Torrance, and R. L. Kittle, Long Beach, assignors to Shell Development Company, San Francisco, Calif. Prevention of emulsions during extraction of olefins with metal salt solutions. 2,418,183; Apr. 1.
- McCombie, John T.: *See*—Jones, Ewart R. H., and McCombie.
- McConaghy, James W., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Pumping mechanism. 2,418,184; Apr. 1.
- McConaghy, James W., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Sealing device. 2,418,185; Apr. 1.
- McConica, Thomas H., III, assignee: *See*—Griswold, Thomas, Jr., and McConica.
- McConnaughey, Kenneth E., West Lafayette, Ind. Mixer. 2,421,345; May 27.
- McConnel, William G., Baltimore, Md., assignor to Bendix Aviation Corporation, South Bend, Ind. Frequency modulated rotating radio beacon. 2,420,605; May 13.
- McConnell, Andrew J., Albany, N. Y., assignor to General Electric Company. Carrier current protective relaying system. 2,419,904; Apr. 29.
- McConnell, Elliott B., Shaker Heights, assignor to The Standard Oil Company, Cleveland, Ohio. Removing sulphur from mineral oil. 2,414,963; Jan. 28.
- McCool, William A., Washington, D. C. Method and apparatus for determining the resonant frequencies of networks. 2,431,339; Nov. 25.
- McCord, Claude M., Memphis, Tenn. Wiper and valve for register box windows. 2,423,604; July 8.
- McCormack, Alex A., Fairview, assignor to Industrial Rayon Corporation, Cleveland, Ohio. Fluid supply and removal connection for thread-advancing reels. 2,418,653; Apr. 8.
- McCormack, Leonard J., Teaneck, N. J., assignor to The New York Association for the Blind, Incorporated, New York, N. Y. Needle holder. 2,415,957; Feb. 18.
- McCormack, Patrick F., West Rutland, Vt. Sand-blast shield. 2,418,893; Apr. 15.
- McCormick, Darwin M.: *See*—Evans, George H., Klopsch, and McCormick.
- McCormick, Darwin M., Springfield, C. B. Barbour, Yeadon, and W. K. Griesinger, Drexel Hill, Pa. Acid refining viscous hydrocarbon oil. 2,418,784; Apr. 8.
- McCormick, Francis A.: *See*—Wilske, Julius E., Jackson, and McCormick.
- McCormick, George, Redwood City, and B. M. Brown, Palo Alto, Calif. Derailment safety guard. 2,431,062; Nov. 18.
- McCormick, George C., Newton, Mass. Malleable annealing basket. 2,430,521; Nov. 11.
- McCormick, J. S., Co., The, assignee: *See*—Cutler, Day E.
- McCormick, James A., Kalamazoo, Mich., assignor to Fruit and Produce Packing, Incorporated, Indianapolis, Ind. Method of and container for packing fruit and the like. 2,426,783; Sept. 2.
- McCorquodale, Wilmer E., Jr., Ardentown, Del., and L. G. Magill, Chester, assignors to Sun Oil Company, Philadelphia, Pa. Distillation of crude petroleum. 2,426,110; Aug. 19.
- McCoy, Carl J., Orcutt, Calif. Pipe handling apparatus. 2,425,292; Aug. 12.
- McCoy, Clarence E., Clarendon Hills, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Control apparatus. 2,432,919; Dec. 16.



- McCoy, Claudius T., Narberth, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Electrical system. 2,424,481; July 22.
- McCoy, Claudius T., Narberth, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Electrical amplifier. 2,429,419; Oct. 21.
- McCoy, Frederic C.: *See*—  
Knowles, Edwin C., and McCoy.  
Knowles, Edwin C., McCoy, and Patterson.
- McCoy, Lowell R., Detroit, assignor to Wyandotte Chemicals Corporation, Wyandotte, Mich. Noncaking laundry sour composition. 2,426,836; Sept. 2.
- McCoy, Rowley D., Bronxville, N. Y., assignor to Sperry Gyroscope Company, Inc. Phase responsive apparatus. 2,429,636; Oct. 28.
- McCoy, Selwyn O.: *See*—  
Yeager, Henry M., and McCoy.
- McCray Refrigerator Company, assignee: *See*—  
Greiling, David J.
- McCreary, Harold J.: *See*—  
Kessler, Frank, and McCreary.
- McCreary, Harold J., Lombard, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Impulsing circuit. 2,420,713; May 20.
- McCreary, Harold J., Lombard, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Distortion correcting impulse repeater. 2,422,309; June 17.
- McCreary, Marcus, Dexter, Mo. Fishline reel. 2,429,637; Oct. 28.
- McCreath, David, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Modification of filaments, etc., derived from synthetic linear polyamides. 2,425,334; Aug. 12.
- McCrimmon, Alex, Wilson, N. C. Rat trap. 2,426,973; Sept. 2.
- McCroquodale, Wilmer E., Jr., Ardentown, Del., L. G. Magill, Chester, and J. D. Hagy, Wallingford, assignors to Sun Oil Company, Philadelphia, Pa. Extraction of saponifiable acids. 2,422,794; June 24.
- McCrory, Kenneth W., Kansas City, Mo. Electric fence controller. 2,423,990; July 15.
- McCulley, Burdette W., Montrose, Colo. Saw filer. 2,427,412; Sept. 16.
- McCulloch, Robert P., Fox Point, and J. L. Ryde, Milwaukee, Wis., assignors, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Valve. 2,421,346; May 27.
- McCulloch, Thomas B., Baytown, Tex., assignor to Standard Oil Development Company. Aviation motor fuel. 2,429,133; Oct. 14.
- McCulloch, Winfield H., U. S. Navy, Baytown, Tex. Valve. 2,432,536; Dec. 16.
- McCullough, Frank, Detroit, Mich. Drill jig. 2,418,234; Apr. 1.
- McCullough, G. C., assignee: *See*—  
Hayes, Albert N.
- McCullough, Jack A.: *See*—  
Eitel, William W., and McCullough.  
Eitel, William W., McCullough, and Howes.
- McCullough, Jack A., Millbrae, assignor to Eitel-McCullough, Inc., San Bruno, Calif. Multigrid electron tube. 2,431,765; Dec. 2.
- McCullough, Paul J.: *See*—  
Steuber, Charles H., and McCullough.
- McCullough, Paul J., assignor to J. Pavelka, St. Louis, Mo. Electric circuit control. 2,414,315; Jan. 14.
- McCullough, Paul J., assignor to J. Pavelka, St. Louis, Mo. Electric toaster. 2,416,014; Feb. 18.
- McCullough, Paul J., assignor to J. Pavelka, St. Louis, Mo. Electric iron. 2,431,186; Nov. 18.
- McCullough, William E., Detroit, Mich. Journal bearing. 2,426,940; Sept. 2.
- McCune, Francis K., Marblehead, Mass., assignor to General Electric Company. Screen brightness measurement photometer. 2,431,575; Nov. 25.
- McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake control apparatus. 2,417,209; Mar. 11.
- McCurdy, Howard, Walnut Park, Calif. Means including a helical ramp for centrifugally separating solids from liquids. 2,425,110; Aug. 5.
- McCurdy, Kenneth A., Hempstead, N. Y. Steam generator. 2,419,582; Apr. 29.
- McCutchen, Joseph K., Ellijay, Ga. Tufting machine. 2,423,605; July 8.
- McCutchen, Joseph K., Ellijay, Ga. Tufting machine. 2,423,606; July 8.
- McCutchen, Joseph K., Ellijay, Ga. Machine for making elongated tufts. 2,423,607; July 8.
- McCutchen, Joseph K., Ellijay, Ga. Looping machine. 2,423,608; July 8.
- McDade, Ralph M., Mebane, N. C. Precooling milking container. 2,418,310; Apr. 1.
- McDaniel, James M., Oklahoma City, Okla. Pumping apparatus. 2,429,940; Oct. 28.
- McDaniel, Roy J.: *See*—  
Meador, Louis V., and McDaniel.
- McDavitt, Marcellus B., Hartsdale, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Testing and indicating system. 2,419,583; Apr. 29.
- McDermott, Henry J., Prospect Park, Pa., assignor to American Viscose Corporation, Wilmington, Del. Wind-ing machine. 2,414,054; Jan. 7.
- McDermott, J. Ray & Co., Inc., assignee: *See*—  
Wiley, Marney B.
- McDermott, John K., Pittsburgh, Pa. Adjustable valve guide. 2,420,183; May 6.
- McDermott, Paul F., Martinsville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Method and apparatus for making flexible insulation. 2,425,293; Aug. 12.
- McDermott, Paul F., Martinsville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Filter element. 2,426,405; Aug. 26.
- McDonald, Charles C., Houston, Tex. Window blind lock. 2,428,170; Sept. 30.
- McDonald, David, Birmingham, Ala. Motor vehicle jack. 2,415,018; Jan. 28.
- McDonald, David, Birmingham, Ala. Window guard fastener. 2,424,361; July 22.
- McDonald, James D., Erie, Pa., assignor to General Electric Company. Dynamoelectric machine and driving connection. 2,429,067; Oct. 14.
- McDonald, Sterling B., Naperville, Ill., assignor, by mesne assignments, to Push-Back Chair Co., Los Angeles, Calif. Theatre chair. 2,430,356; Nov. 4.
- McDonald, William H., assignor to The Nurre Companies, Inc., Bloomington, Ind. Table construction. 2,423,247; July 1.
- McDonnell Aircraft Corporation, assignee: *See*—  
Platt, Haviland H.  
Platt, Haviland H., and Le Page.  
Utsch, Albert.
- McDonnell, Harry E., Steubenville, Ohio. Metallurgical apparatus. 2,418,654; Apr. 8.
- McDonough, Everett G.: *See*—  
Evans, Ralph L., and McDonough.
- McDonough, John J., assignee, trustee: *See*—  
Heyer, Benjamin F. W.
- McDougall, Archibald D., Sacramento, Calif. Sportsman's glove. 2,432,325; Dec. 9.
- McDowall, Charles J., and D. Gerdan, Indianapolis, Ind., assignors to General Motors Corporation, Detroit, Mich. Counterweighted crankshaft. 2,419,274; Apr. 22.
- McDowell, Earle B., Scotia, and E. M. Gardiner, Schenectady, N. Y., assignors to General Electric Company. Photoelectric detecting apparatus. 2,419,459; Apr. 22.
- McDowell, James D., Humberstone, Ontario, Canada. Combined cabinet and extensible table. 2,429,362; Oct. 21.
- McDowell Manufacturing Company, assignee: *See*—  
Shera, John W.
- McDowell & Torrence Lumber Company, The, assignee: *See*—  
Haines, Malcolm E.
- McEachern, Andrew G., St. Petersburg, Fla. Baby chair. 2,428,088; Sept. 30.
- McElhose, Robert T., and R. R. Farrell, assignors to Universal Lubricating Systems, Inc., Oakmont, Pa. Swivel attachment for couplers. 2,423,069; June 24.
- McElvain, Samuel M., and H. Burkett, Madison, Wis. Barbituric compounds. 2,415,897; Feb. 18.
- McElvain, Samuel M., and M. A. Goese, Madison, Wis. Production of brompyridines. 2,418,977; Apr. 15.
- McElvain, William A.: *See*—  
Magann, Merritt W., and McElvain.
- McEnglevar Heat Treating and Manufacturing Company, Inc., assignee: *See*—  
Moudy, Robert T.
- McEntire, Kenneth R., assignor to J. C. Hockery, trustee for H. J. and F. L. Talge, Kansas City, Mo. Can opener. 2,427,734; Sept. 23.
- McEwen, Robert L.: *See*—  
Kauffmann, Hans O., McEwen, Shanley, and Hopkins.
- McFall, Thurlow E., assignor to Michigan Artercraft Company, Sparta, Mich. Extension table. 2,420,787; May 20.
- McFall, William W., River Forest, Ill. Garment hanger. 2,431,818; Dec. 2.
- McFarland, Artie F., assignor to McFarland Manufacturing Corporation, Houston, Tex. Jet washing apparatus. 2,428,917; Oct. 14.
- McFarland, Donald L., Milford, assignor to United Aircraft Corporation, East Hartford, Conn. Foldable step. 2,417,987; Mar. 25.
- McFarland, Forest R., Huntington Woods, assignor to Packard Motor Car Company, Detroit, Mich. King pin and spindle arrangement for steerable wheels. 2,417,316; Mar. 11.
- McFarland Manufacturing Corporation, assignee: *See*—  
McFarland, Artie F.
- McFarlane, James A., Jr., Richlands, Va. Die employed in reclaiming plastic bases of radio tubes. 2,429,836; Oct. 28.
- McFarlane, William D., Ste. Anne de Bellevue, and N. Nikolaiczuk, Macdonald College, assignors to The Ogilvie Flour Mills Co. Limited, Montreal, Quebec, Canada. Treating chick-hatchery waste to recover protein-fat concentrates. 2,418,311; Apr. 1.
- McFeaters, Harry L., New Castle, Pa., assignor to Pennsylvania Engineering Works. Ore roaster. 2,433,781; Dec. 30.
- McFeely Brick Company, assignee: *See*—  
MacDonald, James E.
- McGaffey, Neil F.: *See*—  
Phelan, Arthur J., Walden, and McGaffey.
- McGahey, Donald C., Cincinnati, Ohio; G. H. Scherer, administrator of said D. C. McGahey, deceased, assignor to M. C. McGahey, Elkhorn, Wis. Bean sprouting method and kit. 2,431,063; Nov. 18.



- McGahey, Mildred C., assignee: *See*—  
McGahey, Donald C.
- McGarvey, Alan R., Manheim Township, Lancaster County, and C. C. Callis, Lancaster Township, Lancaster County, assignors to Armstrong Cork Company, Lancaster, Pa. Method of making magnesia insulation. 2,423,839; July 15.
- McGarvey, Alan R., Manheim Township, Lancaster County, and C. C. Callis, Penn Township, Lancaster County, assignors to Armstrong Cork Company, Lancaster, Pa. Making magnesia insulation. 2,423,840; July 15.
- McGarvey, Alan R., Manheim Township, and C. C. Callis, Penn Township, Lancaster County, assignors to Armstrong Cork Company, Lancaster, Pa. Making magnesia insulation. 2,423,841; July 15.
- McGean Chemical Company, The, assignee: *See*—  
Waite, Virgil H., and Allport.
- McGeoch, Sarah N., Greenford, England, assignor to Imperial Chemical Industries Limited. Preparation of peanut protein. 2,424,408; July 22.
- McGiff, Raymond, New York, N. Y. Door hinge. 2,430,942; Nov. 18.
- McGill, Alrye U., Stuttgart, Ark. Mold-blanketing material. 2,416,836; Mar. 4.
- McGill, John H., Manchester, and L. B. Morgan, Baguley, England, assignors to Imperial Chemical Industries Limited. Coating fabric with polyvinyl chloride. 2,428,716; Oct. 7.
- McGill Manufacturing Company, assignee: *See*—  
Popp, Rudolf.
- McGill Manufacturing Company, Inc., assignee: *See*—  
Popp, Rudolf.
- McGinnis, Archibald B., assignor to Wheeling Stamping Company, Wheeling, W. Va. Plastic article. 2,417,510; Mar. 18.
- McGowan, Henri C., Augusta, Ga. Crutch armrest. 2,417,171; Mar. 11.
- McGowan, Michael E., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric lamp and bulb. 2,420,831; May 20.
- McGowan, Michael E., Bloomfield, and W. R. Umbach, Glen Ridge, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Apparatus for uniting leads to lamp contacts. 2,429,287; Oct. 21.
- McGrath, Henry G.: *See*—  
Passino, Herbert J., and McGrath.
- McGrath, William L., Syracuse, N. Y., assignor to The Brown Instrument Company, Philadelphia, Pa. Control system. 2,429,695; Oct. 28.
- McGraw Colorgraph Company, assignee: *See*—  
Ball, Joseph A.
- McGraw Electric Company, assignee: *See*—  
Olving, Bror G.  
Osterheld, Clark M.  
Riker, Burton M.  
Willman, Philip E.
- McGraw, Max, assignee: *See*—  
Ball, Joseph A.
- McGreal, Eldred B., Burbank, Calif. Measuring device. 2,415,257; Feb. 4.
- McGreal, Martin E.: *See*—  
Niederl, Joseph B. and V., and McGreal.
- McGregor, Rob R., Verona, and E. L. Warrick, Pittsburgh, Pa., assignors to Corning Glass Works, Corning, N. Y. Treating dimethyl silicone polymer with boric oxide. 2,431,878; Dec. 2.
- McGregor, Robert R.: *See*—  
Dilley, Donald C., and McGregor.
- McGrew, Edwin H.: *See*—  
Walter, John F., and McGrew.
- McGuffey, Orton S., assignor to Kold-Hold Manufacturing Company, Lansing, Mich. Making hold-over refrigeration plates. 2,416,015; Feb. 18.
- McGuire, Frank J., Bogota, N. J., assignor to The Linde Air Products Company. Method of and apparatus for flame hardening gear teeth. 2,425,751; Aug. 19.
- McGuire, Philip J., San Francisco, F. W. Brittain, Piedmont, and E. D. Rollins, Berkeley, assignors to Oliver United Filters Incorporated, Oakland, Calif. Treating oil refinery waste. 2,430,182; Nov. 4.
- McHaffie, Ivan R., Montreal West, Quebec, and H. R. L. Streight, Montreal, Quebec, Canada, assignors to E. I. du Pont de Nemours and Company, Wilmington, Del. Manufacture of high strength sulfuric acid. 2,415,142; Feb. 4.
- McHarness, Robert C.: *See*—  
Downing, Frederick B., Benning, and McHarness.
- McHenry, Douglas, Denver, Colo., assignor to United States of America, as represented by the Secretary of the Interior. Protective covering for bonded wire electric strain gages. 2,423,842; July 15.
- McHugh, James P., San Francisco, Calif. Device for anchoring cables and the like. 2,433,234; Dec. 23.
- McIlrath, James H., Hatfield, Pretoria, Transvaal, Union of South Africa. Mechanical device for converting rotary motion into reciprocatory motion, and vice versa. 2,431,493; Nov. 25.
- McIntosh, Frank H., Chevy Chase, Md. Making electron discharge devices. 2,415,360; Feb. 4.
- McIntosh, George R., San Francisco, assignor to Woolridge Manufacturing Company, Sunnyvale, Calif. Motor vehicle. 2,425,631; Aug. 12.
- McIntosh, Maurice D., Cleveland Heights, assignor to Louis S. Sanders, Shaker Heights, Ohio. Drawing medium and making the same. 2,425,068; Aug. 5.
- McIntosh, Robert D., River Forest, assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Portable hand-operated tube bending tool. 2,428,237; Sept. 30.
- McIntyre, John H., Cisco, Tex., assignor to International Harvester Company. Planter runner. 2,416,189; Feb. 18.
- McIntyre, Thomas, West New York, N. J. Quick detachable hose coupling. 2,431,268; Nov. 18.
- McIver, William K., Fort Wayne, Ind., assignor to General Electric Company. Double disc eddy current loudspeaker. 2,429,068; Oct. 14.
- McKay Company, The, assignee: *See*—  
Hardy, Wilbert E.  
Lee, Richard K.
- McKay, Herbert C., Eustis, Fla., A. Martinek, Allentown, Pa., and W. D. Foster, Eustis, Fla. Radiation-controlled release for aerial bombs or other loads. 2,432,920; Dec. 16.
- McKay, James B., Westport, Conn., assignor to The Dorr Company, New York, N. Y. Apparatus for automatically controlling discharge of settled particles in a hydraulic classifier. 2,425,551; Aug. 12.
- McKay, Leslie J., Orlando, Fla. Bench vise. 2,420,002; May 6.
- McKay, William J. A., and A. J. Koon, Grand Rapids, Mich. Chuck. 2,421,281; May 27.
- McKeag, Alfred H.: *See*—  
Jenkins, Henry G., McKeag, and Ranby.
- McKee, Floyd W., Salem, Ohio. Cleat for holding the electric cord on the handle of an electric carpet sweeper. 2,427,801; Sept. 23.
- McKee Glass Company, assignee: *See*—  
Poglein, Louis.
- McKee, Harry H., Chicago, Ill., assignor to Industrial Patents Corporation. Corned meat. 2,416,190; Feb. 18.
- McKee, Harry H., N. J. Dziedzic, and C. L. Straeten, assignors to Industrial Patents Corporation, Chicago, Ill. Meat treatment. 2,420,549; May 13.
- McKee, James E., Wilmington, Del., assignor to Chemical Construction Corporation, New York, N. Y. Method and apparatus for hydrolyzing acid sludges. 2,415,650; Feb. 11.
- McKee, James H., North Caldwell, N. J., assignor to Curtiss-Wright Corporation. Producing hollow propeller blade constructions. 2,431,064; Nov. 18.
- McKee, James H., North Caldwell, N. J., assignor to Curtiss-Wright Corporation. Plate component for propeller blades. 2,431,411; Nov. 25.
- McKee, James H., North Caldwell, N. J., assignor to Curtiss-Wright Corporation. Reinforced propeller blade. 2,433,433; Dec. 30.
- McKee, Lewis S.: *See*—  
Macey, Joseph, and McKee.
- McKellar, David H.: *See*—  
Langford, Cecil T., McKellar, and Davidson.
- McKellar, Ormond A., Toronto, Ontario, Canada. Cabinet having elevatable table top and racks. 2,429,638; Oct. 28.
- McKelvey, John J., trustee, assignee, et al.: *See*—  
Cheney, Franklin V.
- McKendry, Richard C., Dayton, Ohio. Dynamic tolerance method of testing bearings with means for carrying same into effect. 2,427,364; Sept. 16.
- McKenna, Anna D., administratrix: *See*—  
McKenna, Charles H.
- McKenna, Charles H., deceased, Buffalo, N. Y.; A. D. McKenna, administratrix. Barrel lifter. 2,416,016; Feb. 18.
- McKenna, George E., and G. R. Hettick, Phillips, Tex., assignor to Phillips Petroleum Company. Separation of hydrogen fluoride from water and organic contaminants by distillation and decantation. 2,425,752; Aug. 19.
- McKennon, Forrest L., New Orleans, La., and J. R. Lindquist, Los Angeles, Calif., assignors to United States of America, as represented by the Secretary of Agriculture. Compounding of rubber. 2,420,788; May 20.
- McKenzie, Alexander C., Beaverton, Ontario, and R. H. and R. J. Jones, Toronto, Ontario, Canada. Garment stretcher. 2,420,051; May 6.
- McKenzie, Ronald J., Danvers, assignor to Sylvania Electric Products Inc., Salem, Mass. Glow starter for electric discharge devices. 2,426,463; Aug. 26.
- McKeown, Michael: *See*—  
Der Mateosian, Edward, and McKeown.
- McKlennan, James D., Brooklyn, N. Y., assignor to Air Reduction Company, Incorporated. Torch holder assembly for gas cutting or welding machines. 2,416,399; Feb. 25.
- McKim, Burton, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,421,034; May 27.
- McKim, Francis L. W.: *See*—  
Cambron, Adrien, and McKim.
- McKinley, Benjamin P., Manatee County, Fla., assignor to McKinley-Muckenhaupt Co., Chicago, Ill. Electrically heated soldering device. 2,416,936; Mar. 4.
- McKinley, Joseph B., assignor to Gulf Research & Development Company, Pittsburgh, Pa. Production of 1,1,3-trimethylcyclopentane. 2,415,599; Feb. 11.



- McKinley, Joseph B., Pittsburgh, and D. R. Stevens, Wilkinsburg, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Polymerization of isobutylene. 2,415,438; Feb. 11.
- McKinley-Muckenaupt Co., assignee: *See*—  
McKinley, Benjamin P.
- McKinnis, Art C.: *See*—  
Doumani, Thomas F., Deery, and McKinnis.
- McKinnis, Art C., assignor to Union Oil Company of California, Los Angeles, Calif. Extractive distillation of hydrocarbon mixtures using hydrocarbon solvents. 2,433,286; Dec. 23.
- McKinnis, Ronald B., Winter Haven, Fla. Apparatus for filling containers. 2,421,708; June 3.
- McKinstry, William S.: *See*—  
Little, William E., and McKinstry.
- McKnight, Laurence J., Lakewood, Ohio. Lock. 2,422,795; June 24.
- McKnight, William C.: *See*—  
Olipin, Henry C., Gibson, and McKnight.
- McKune, Frank, San Francisco, Calif. Thermoresponsive latch and setting mechanism therefor. 2,426,039; Aug. 19.
- McLachlan, Dan, Jr., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. X-ray goniometer camera. 2,417,657; Mar. 18.
- McLain, William R., Chicago, Ill., assignor to Carnegie-Illinois Steel Corporation. Refractory bottom for metallurgical furnaces. 2,423,898; July 15.
- McLaren, John A., Los Angeles, Calif. Electric alarm and indicating device. 2,429,363; Oct. 21.
- McLarn, Ernest S., Manhasset, assignor to International Standard Electric Corporation, New York, N. Y. Clamping member for tipless cord connectors. 2,419,652; Apr. 29.
- McLarn, Ernest S., Manhasset, assignor to International Standard Electric Corporation, New York, N. Y. Manufacturing unitary multiple connections. 2,433,384; Dec. 30.
- McLarty, Gordon, Battle Creek, Mich. Fan assembly. 2,419,962; May 6.
- McLaughlin, F. L., assignee: *See*—  
Burke, James P.
- McLaughlin, Howard J., assignor of one-half to J. B. Hussey, Port Orchard, Wash. Dispensing means for pellets. 2,433,472; Dec. 30.
- McLaughlin, John R., New Brunswick, N. J., assignor, by mesne assignments, to Tampax Incorporated, New York, N. Y. Compression drum for forming cotton and the like. 2,416,706; Mar. 4.
- McLaughlin, Kenneth M., Summit, N. J., assignor to Radio Corporation of America. Electrical socket. 2,419,460; Apr. 22.
- McLean, Andrew: *See*—  
Traill, David, and McLean.
- McLean, David A.: *See*—  
Finch, Tudor R., and McLean.
- McLean, David A., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Composition for and method of extinguishing fires. 2,421,035; May 27.
- McLean, David A., Chatham, N. J., and H. C. Theurer, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Crystal detector mounting. 2,432,116; Dec. 9.
- McLean, Robert E., Fort Benning, Ga. Takedown type swinging wall bracket. 2,427,613; Sept. 16.
- McLellan, Kenneth M.: *See*—  
Burkholder, Alden H., Standley, and McLellan.
- Kline, Hayden B., and McLellan.
- McLellan, Kenneth M., assignor to Industrial Rayon Corporation, Cleveland, Ohio. Production of rayon. 2,427,993; Sept. 23.
- McLemore, Price C., Waugh, Ala., and V. Knudsen, Honolulu, Hawaii; said Knudsen assignor, by mesne assignments, to Flame Cultivation, Incorporated. Apparatus for flame cultivation of plants. Re. 22,836; Jan. 28.
- McLennan, Lester W., El Cerrito, assignor to Union Oil Company of California, Los Angeles, Calif. Lubricating composition. 2,417,428; Mar. 18.
- McLennan, Lester W., El Cerrito, assignor to Union Oil Company of California, Los Angeles, Calif. Complex basic soap greases. 2,417,429; Mar. 18.
- McLennan, Lester W., El Cerrito, assignor to Union Oil Company of California, Los Angeles, Calif. Lubricants. 2,417,430; Mar. 18.
- McLennan, Lester W., El Cerrito, assignor to Union Oil Company of California, Los Angeles, Calif. Lubricants. 2,417,431; Mar. 18.
- McLennan, Lester W., El Cerrito, assignor to Union Oil Company of California, Los Angeles, Calif. Lubricants. 2,417,432; Mar. 18.
- McLennan, Lester W., El Cerrito, assignor to Union Oil Company of California, Los Angeles, Calif. Lubricating composition. 2,417,433; Mar. 18.
- McLeod, John H., and J. R. Turner, assignors to Eastman Kodak Company, Rochester, N. Y. Workholder for use in grinding and polishing transmission surfaces of roof prisms. 2,420,606; May 13.
- McMahon, William W., assignor to Wingfoot Corporation, Akron, Ohio. Apparatus for filling tires with fluid. 2,415,019; Jan. 28.
- McMahon, Howard O., Lexington, assignor to Arthur D. Little, Inc., Cambridge, Mass. Apparatus for determining the vapor content of a gas. 2,429,474; Oct. 21.
- McMahon, William F., Riverside, Calif. Disk harrow. 2,420,437; May 13.
- McMains, Wren M., Richmond, Ind. Instruction cover for airplane windows. 2,417,317; Mar. 11.
- McMaster, Harold A., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Conductive coating for glass and application. 2,429,420; Oct. 21.
- McMath, Marl, Newport, Ky., assignor to Dayton Acme Co., Cincinnati, Ohio. Generator light. 2,424,700; July 29.
- McMichael, Floyd J., Orlando, Fla. Device for cooling by immersion in a chilled liquid. 2,427,869; Sept. 23.
- McMillan, Frank M.: *See*—  
de Simo, Martin, and McMillan.
- McMullen, John C., assignor to The Carborundum Company, Niagara Falls, N. Y. Refractories and making. 2,425,891; Aug. 19.
- McMurray, Harry G., Wakefield, assignor to Safety Box Toe Company, Holliston, Mass. Making shoes with safety box toes. 2,428,938; Oct. 14.
- McMurtry, Eugene M., Denver, Colo. Chipping hammer. 2,429,728; Oct. 28.
- McNab, John G.: *See*—  
Fleming, Charles L., Jr., and McNab.  
Zimmer, John C., and McNab.
- McNab, John G., Cranford, N. J., C. J. Wilson, Marysville, Mich., and C. Winning, Westfield, N. J., assignors to Standard Oil Development Company. Lubricating compositions. Re. 22,910; Sept. 2.
- McNab, John G., Cranford, and D. T. Rogers, Summit, N. J., assignors to Standard Oil Development Company. Compounded lubricating oil. 2,418,894; Apr. 15.
- McNab, John G., Cranford, N. J., C. J. Wilson, Norwalk, Conn., and C. Winning, Westfield, N. J., assignors to Standard Oil Development Company. Lubricating oil composition. 2,419,360; Apr. 22.
- McNab, John G., Cranford, and C. L. Fleming, Jr., Roselle Park, N. J., assignors to Standard Oil Development Company. Compounded lubricating oil. 2,420,893; May 20.
- McNabb, Louis A., Glenview, assignor to The Bell & Howell Company, Chicago, Ill. Motion picture machine. 2,418,361; Apr. 1.
- McNabb, Louis A., Glenview, assignor to The Bell & Howell Company, Chicago, Ill. Prefocused, quickly adjustable light slit for photoelectric sound heads. 2,421,637; June 3.
- McNabb, Louis A., Glenview, assignor to Bell & Howell Company, Chicago, Ill. Intermittent strip feed mechanism. 2,427,294; Sept. 9.
- McNairy, Jacob W., F. A. Rosenkrans, and A. E. Coombs, Bridgeport, Conn., assignors to General Electric Company. Control device for heater circuits. 2,429,475; Oct. 21.
- McNally, Dana R., Barneveld, N. Y., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Article gaging, ejecting, and refeed mechanism for die presses. 2,418,949; Apr. 15.
- McNally, James G.: *See*—  
Dickey, Joseph B., and McNally.
- McNally, James G., and J. B. Dickey, assignors to Eastman Kodak Company, Rochester, N. Y. Bicyclic compound containing a diphenylamine nucleus. 2,422,029; June 10.
- McNally, James O., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,413,725; Jan. 7.
- McNamara, Gordon G., Jr., Chicago, Ill., assignor to International Harvester Company. Tractor loading attachment. 2,417,560; Mar. 18.
- McNamara, Harold, Butler, Pa. Antiglare rear view mirror. 2,420,259; May 6.
- McNamara, William L., and F. Z. Fouse, assignors to Anchor Hocking Glass Corporation, Lancaster, Ohio. Article take-off or transfer apparatus. 2,421,515; June 3.
- McNamee, Raymond W.: *See*—  
Guest, Howard R., MacDowell, and McNamee.
- McNamee, Raymond W., South Charleston, W. Va., and L. G. MacDowell, Lakeland, Fla., assignors to Carbide and Carbon Chemicals Corporation. Glycol diethers. 2,425,042; Aug. 5.
- McNatt, Eugene M., Tulsa, Okla., assignor to Standard Oil Development Company. Integrating gradiometer. Re. 22,919; Sept. 23.
- McNeill, William C., Jr., Jamaica, Iowa. Loading machine. 2,427,971; Sept. 23.
- McNeill, H. H., Lumber Co., Inc., assignee: *See*—  
Brewer, Oscar Z.
- McNeill, Harry L., Denver, Colo. Specific gravity separation of solids in liquid suspension. 2,422,203; June 17.
- McNeill, Locksley D., Winnipeg, Manitoba, Canada. Cream separator. 2,428,429; Oct. 7.
- McNitt, Robert J., Perth Amboy, N. J. Method and apparatus for the purification of fused salt baths. 2,414,831; Jan. 28.
- McNitt, Robert J., Perth Amboy, N. J. Method and apparatus for purifying a molten light metal by precipitation of impurities. 2,424,179; July 15.
- McNulty, George M.: *See*—  
Zimmer, John C., and McNulty.
- McOscar, Morse, Napoleon, Ohio. Combined digging and loading device for tractors or the like. 2,415,515; Feb. 11.



- McPherson, Hal W., Chicago, Ill. Sewage disposal device for toilets. 2,414,964; Jan. 28.
- McPherson, Mina M., Coeur d'Alene, Idaho. Hair curler. 2,433,141; Dec. 23.
- McQuay-Norris Manufacturing Company, assignee: *See*—Wainwright, Nelson, and Mummert.
- McQueen, David M., Newark, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Photographic elements containing polyamide dye intermediate layers. 2,423,460; July 8.
- McQueen, David M., Newark, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. N-beta-cyanoethylalkanesulfonamides. 2,424,664; July 29.
- McQueen, David M., Newark, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Light-sensitive layers of N-monoaryldihydroxylamines and their nitrones and printing thereon. 2,426,894; Sept. 2.
- McQueen, David M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyamide color formers. 2,428,108; Sept. 30.
- McRae, James W., Arlington, Va., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Suppression of parasitic oscillations in high-frequency devices. 2,422,695; June 24.
- McSkimin, Herbert J.: *See*—Mason, Warren P., and McSkimin.
- McSkimin, Herbert J., Basking Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave filter. 2,429,639; Oct. 28.
- McSpadden, Donovan M.: *See*—Cook, James, McSpadden, and Thornburg.
- McStay Jackson and Company, assignee: *See*—Taylor, Charles C.
- McWherter, Paul V.: *See*—Furstoss, Ralph J., Krane, and McWherter.
- McWhirter, Eric M. S., H. Wolfson, R. H. Dunn, and S. C. Shepard, assignors to Standard Telephones and Cables Limited, London, England. Thermistor controlled relay circuits. 2,423,107; July 1.
- McWhirter, William C., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Emergency release for electric switch locks. 2,425,111; Aug. 5.
- McWhorter, Cullen J., Odessa, Tex. Gun perforator. 2,426,517; Aug. 26.
- McWilliams, Charles H., Tampa, Fla. Coin holder. 2,428,498; Oct. 7.
- Meacham, Larned A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Indicating apparatus. 2,414,477; Jan. 21.
- Meacham, Larned A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Submarine detection system. 2,418,846; Apr. 15.
- Meacham, Larned A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Range indicator. 2,422,204; June 17.
- Meacham, Larned A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Range indicator. 2,422,205; June 17.
- Meacham, Larned A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Timing circuit. 2,422,696; June 24.
- Meacham, Larned A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Viewing system. 2,422,697; June 24.
- Meacham, Lotta A., Laguna Beach, Calif. Platen scale for typewriters. 2,425,112; Aug. 5.
- Mead, Benjamin F., assignee: *See*—Ellberg, Ernest.
- Mead, Constance V., assignee: *See*—Mead, Marvin H.
- Mead Corporation, The, assignee: *See*—Browner, George R.
- Mead, Edward D., Caldwell, and F. M. Thomas, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Mechanical stop device. 2,417,434; Mar. 18.
- Mead Johnson & Company, assignee: *See*—Ellingson, Rudolph C.
- Mead, Lawrence C., Turlock, Calif. Releasable locking means for pivoting-traveling outer jaw wrenches. 2,420,714; May 20.
- Mead, Marvin H., Savannah, Ga., assignor of one-half to C. V. Mead. Inclosure for educating silkworms. 2,416,037; Feb. 18.
- Mead Specialties Company, Inc., assignee: *See*—Mead, Theodore E.
- Mead, Theodore E., Wilmette, Ill., assignor to Mead Specialties Company, Inc. Work holding apparatus. 2,421,957; June 10.
- Mead, Theodore E., Wilmette, Ill., assignor to Mead Specialties Company, Inc. Work holder. 2,428,496; Oct. 7.
- Meade, Reginald E.: *See*—Pollard, Henry L., Rodgers, and Meade.
- Meade, Reginald E., N. E. Rodgers, and H. L. Pollard, Appleton, Wis., assignors to Western Condensing Company, San Francisco, Calif. Preparing riboflavin from lacteal material. 2,433,232; Dec. 23.
- Meador, Jim C., Shreveport, La. Window molding. 2,419,653; Apr. 29.
- Meador, Louis V., and R. J. McDaniel, Vinton, Va. Tapered boring attachment. 2,431,269; Nov. 18.
- Meadors, Ansel R., Jr.: *See*—Knight, William B., and Meadors.
- Meadow, Jacob R.: *See*—O'Kelly, Arlie A., Meadow, and Woodward.
- Ray, Frederick E., Lee, and Meadow.
- Meadow, Jacob R., Memphis, Tenn., assignor to Socony-Vacuum Oil Company, Incorporated. Catalytic conversion of hydrocarbons. 2,430,724; Nov. 11.
- Meadows, Carl M.: *See*—Elkin, Milton, and Meadows.
- Meadows, Luther A., Portland, Oreg. Attachment for tongs. 2,415,898; Feb. 18.
- Meahl, Harry R., Schenectady, N. Y., assignor to General Electric Company. Attenuator for ultra high frequencies. 2,423,461; July 8.
- Meaker Company, The, assignee: *See*—Miller, Constantine G.
- Meakin, Edgar N., San Francisco, Calif. Recovery of fluids. 2,415,600; Feb. 11.
- Meakin, Edgar N., San Francisco, Calif. Pellet mill. 2,432,326; Dec. 8.
- Mealey, Raymond L., Watervliet, N. Y. Boring bar. 2,430,026; Nov. 4.
- Means, Winthrop J., Ridgewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Orienting device. 2,427,014; Sept. 9.
- Mebs, Erwin H., Johnstown, Pa., assignor to Carnegie-Illinois Steel Corporation. Apparatus for casting steel rolls. 2,431,879; Dec. 2.
- Mechanical Products, Inc., assignee: *See*—Kline, Herbert J., and Knapp.
- Mechanical Resuscitator, Inc., assignee: *See*—Rausch, Chester C.
- Mechur, Bert, and W. Riedler, New York, N. Y. Shoulder pad and method of making the same. 2,424,482; July 22.
- Medart, Fred, Manufacturing Company, assignee: *See*—Chervinka, George R.
- Meddock, Alvin A.: *See*—Trautman, Walter C., and Meddock.
- Medical & Industrial Equipment Limited, assignee: *See*—Tallev, Henry A. E.
- Medlin, William V., assignor to Shell Development Company, San Francisco, Calif. Operation of fluidized systems. 2,421,212; May 27.
- Medlock, Homer L.: *See*—Bowdoin, Fairbanks C., and Medlock.
- Medveckus, Vincent: *See*—Voliazzo, Jesse, and Medveckus.
- Mee, William A., Springfield, Ohio. Collision guard. 2,420,894; May 20.
- Meech, Ralph E., assignee: *See*—Minarik, Rudolph A.
- Meehan, Donald E., Washington, D. C. Barrel stand. 2,419,786; Apr. 29.
- Meek, John B.: *See*—Schroeder, Harry E., and Meek.
- Meek, John M.: *See*—Haine, Michael E., Meek, and Craggs.
- Meek, Melvin J., South Bend, Ind. Fishing weight. 2,428,497; Oct. 7.
- Meek, Melvin J., assignor of one-half to B. C. Hogquist, South Bend, Ind. Fish landing net. 2,420,087; May 6.
- Mees, Herman, Lodelinsart, assignor to Ateliers de Constructions Electriques de Charleroi, Brussels, Belgium. Mercury vapor current converter. 2,432,433; Dec. 9.
- Mefina, S. A., assignee: *See*—Hönger, Guido.
- Megal, Joseph J., assignor to P. C. Read, Milwaukee, Wis. Twisted belt agitator. 2,414,316; Jan. 14.
- Mehan, Thomas O., Park Ridge, and H. E. Hoee, assignors to Victor Adding Machine Co., Chicago, Ill. Transfer mechanism for calculating machines. 2,429,522; Oct. 21.
- Mehl, Robert F., Pittsburgh, assignor to Jessop Steel Company, Washington, Pa. Making composite metal bodies. 2,416,400; Feb. 25.
- Mehmel, William A.: *See*—Julich, Edward M., and Mehmel.
- Mehn, Carl L. and M. M., Gridley, Ill. Brake operating means for tractors. 2,418,186; Apr. 1.
- Mehn, Margaret M.: *See*—Mehn, Carl L. and M. M.
- Mehrlisch, Ferdinand P., assignor to Hawaiian Pineapple Company, Limited, Honolulu, Hawaii. Culture of pineapple plants. 2,428,335; Sept. 30.
- Meier, Ernst, assignor to Aktiengesellschaft Fuer Technische Studien, Zurich, Switzerland. Rotor for multi-stage turbo-machines. 2,427,614; Sept. 16.
- Meier, Hans: *See*—Pudelko, Richard, Meier, and Zings.
- Meier, Heinrich, assignor to Zellweger A. G. Apparate- und Maschinenfabriken Uster, Uster, Switzerland. Separating device for leased warp threads in weaving-preparing machines. 2,413,881; Jan. 7.
- Meier, Herbert H., Baytown, Tex., assignor to Standard Oil Development Company. Production of high quality Diesel fuel. 2,415,700; Feb. 11.
- Meier, Julian C., Detroit, Mich. Electrical appliance for making coffee. 2,422,580; June 17.
- Meincke, A. M., & Son, Inc., assignee: *See*—Marrone, John C.
- Meincke, Edward: *See*—Jones, Homer W., and Meincke.



- Meincke, Henry H., Howey-in-the-Hills, Fla. Fertilizer distributor. 2,418,271; Apr. 1.
- Meinel, William J.: *See*—  
D'Ardenne, Walter, H. D., Meinel, de Vore, and Wolf.
- Meinert, Richard N.: *See*—  
Watkins, Charles H., and Meinert.
- Meinert, Richard N., Westfield, and P. H. Holt, 2d, Summit, N. J., assignors to Standard Oil Development Company. Conversion of hydrocarbon oils. 2,419,323; Apr. 22.
- Meininger, Carl R., assignee, et al.: *See*—  
Dowling, Clinton.
- Meisenburg, Karl, assignor to Blaw-Knox Company, Pittsburgh, Pa. Subgrading machine. 2,416,401; Feb. 25.
- Meiser, Werner, Wuppertal-Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Preparations active against cocci infections. 2,426,276; Aug. 26.
- Meisser, Christian, Davos-Dorf, Switzerland. Rotor for centrifugal compressors. 2,429,324; Oct. 21.
- Meister, Leo, Irvington, N. J. Sealing flash holes of primers. 2,424,993; Aug. 5.
- Meister, Leo, Irvington, N. J. Gunsmith's vise. 2,427,365; Sept. 16.
- Meister, Leo T., Bradley Beach, N. J. Method and apparatus for testing centrifugally actuated members. 2,421,036; May 27.
- Meister, Walter F., Elizabeth, N. J., assignor to National Lead Company, New York, N. Y. Purification of titanium tetrachloride. 2,416,191; Feb. 18.
- Meitzler, Donald E., Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Injection system. 2,414,267; Jan. 14.
- Meitzler, Donald E., Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Accumulator fuel injection system. 2,421,843; June 10.
- Meitzler, Donald E., Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Fuel injection system. 2,421,844; June 10.
- Meitzler, Donald E., Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Injection system. 2,426,319; Aug. 26.
- Mekelburg, Earl F., Wauwatosa, Wis., assignor to Square D Company, Detroit, Mich. Plunger electromagnet. 2,433,703; Dec. 30.
- Mekelburg, Harold L.: *See*—  
Buerki, Christian E., and Melkelburg.
- Mekelburg, Harold L., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Cover fastening device. 2,420,184; May 6.
- Melamid, Michael, New York, N. Y. Producing wood tar and charcoal by successive direct and indirect heating steps. 2,429,272; Oct. 21.
- Melanson, Charles G., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Method of and machine for turning the platform covers of platform shoes. 2,414,885; Jan. 28.
- Melaven, Arthur D., and J. A. Bacon, assignors to The University of Tennessee Research Corporation, Knoxville, Tenn. Recovering rhenium. 2,414,965; Jan. 28.
- Melchior, Frederick C., New York, N. Y. Self-energizing airfoil. 2,427,972; Sept. 23.
- Meldahl, Horace S., Charleston, W. Va. Concealed basin furniture. 2,426,152; Aug. 19.
- Melichar, Joseph F., assignor to The Parker Appliance Company, Cleveland, Ohio. Valve assembly. 2,414,966; Jan. 28.
- Melichar, Joseph F., assignor to The Parker Appliance Company, Cleveland, Ohio. Hydraulic relief valve. 2,415,750; Feb. 11.
- Melick, George R., Southport, assignor to Remington Arms Company, Inc., Bridgeport, Conn. Sanding machine fixture. 2,432,434; Dec. 9.
- Mell, Clifford W., Moorestown, N. J., assignor to Radio Corporation of America. Forming engraved markings in a ferrous article. 2,415,361; Feb. 4.
- Mellen, William F.: *See*—  
Rogers, Harry, and Mellen.
- Mellers, Eric V.: *See*—  
Fallows, Leonard, and Mellers.
- Mellin, Oscar A., assignee, et al.: *See*—  
Roach, Edward.
- Mell-O-Chime and Signal Corporation, assignee: *See*—  
Zuckerman, Joseph S.
- Mellonis, Constantine, New York, N. Y. Fountain pen. 2,427,222; Sept. 9.
- Mellor Bromley and Co., Limited, assignee: *See*—  
Shortland, Arthur.
- Melnick, Daniel, New York, N. Y., assignor to Continental Foods, Inc., Hoboken, N. J. Composition and method. 2,426,634; Sept. 2.
- Melniczak, Alex, Camden, N. J. Double worker drill, reamer and countersink. 2,430,522; Nov. 11.
- Melody, Joseph F., Danbury, Conn. Hatting fur treatment. 2,429,476; Oct. 21.
- Melrose, Adolph E., Muskegon, Mich., assignor to A. E. Melrose, M. E. Johnson, M. S. Newman, B. H. Burwell, and J. N. Martinson, trustees. Rotary internal-combustion engine of the sliding abutment type. 2,421,898; June 10.
- Melrose, Adolph E., assignor to Hastings Manufacturing Company, Hastings, Mich. Making piston rings. 2,422,431; June 17.
- Melvill, Francis L., New York, N. Y. Contacting apparatus. 2,424,248; July 22.
- Melzian, Aldon L.: *See*—  
Anderson, Carl D., Leighton, Wilts, and Melzian.
- Meminger, Paul, Los Angeles, Calif. Electrode pad. 2,433,233; Dec. 23.
- Menachof, Oscar, assignee: *See*—  
Juhasz, Stephen.
- Menaul, Paul L., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Inhibiting well corrosion. 2,426,317; Aug. 26.
- Menaul, Paul L., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Inhibiting corrosion. 2,426,318; Aug. 26.
- Mendelsohn, Lewis I., Lynn, Mass., assignor to General Electric Company. Magnetic repulsion Geneva movement. 2,420,607; May 13.
- Mendenhall, Frank C., assignee: *See*—  
Mendenhall, Oscar L.
- Mendenhall, Oscar L., assignor of one-half to F. C. Mendenhall, Champaign, Ill. Walking-aid frame. 2,430,235; Nov. 4.
- Mendolia, Arthur I.: *See*—  
Thronson, Edgar A., and Mendolia.
- Mendoza, Mordecai: *See*—  
Beech, Walter F., and Mendoza.
- Menefee, Arthur B., Cumberstone, Md., and H. H. Greger, Washington, D. C. Producing sulphur and fertilizers. 2,416,663; Feb. 25.
- Menefee, Arthur B., Cumberstone, Md., and H. H. Greger, Washington, D. C. Recovery of sulphur from sulphur ores. 2,429,477; Oct. 21.
- Meneley, Carl A.: *See*—  
Bedford, Alda V., and Meneley.
- Menge, Herman J., Middle Village, N. Y. Protractor for use in navigation. 2,420,608; May 13.
- Menheneott, Frank M.: *See*—  
Stather-Dunn, Eustace, and Menheneott.
- Menking, Heinz, Rocky River, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Warp beam. 2,426,464; Aug. 26.
- Mennie, Robert S., Montclair, N. J. Rail lubricator. 2,428,171; Sept. 30.
- Menough, Paul S., Rocky River, Ohio. Annealing tray. 2,417,083; Mar. 11.
- Mentmore Manufacturing Co. Limited, assignee: *See*—  
Andrews, Arthur E., and Johnson.
- Menzel, Otto A., assignor to Western Hardware and Specialty Manufacturing Co., Milwaukee, Wis. Handled implement hanger. 2,413,839; Jan. 7.
- Menzies, William E., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Electric motor control. 2,418,235; Apr. 1.
- Menzl, Leon, Crestwood, assignor to Marlo Company, New York, N. Y. Teeth for roll scrapers and trash bar plates. 2,417,210; Mar. 11.
- Mercer, James A., Tuscaloosa, Ala. Helmet. 2,416,062; Feb. 18.
- Mercer, William R., Hightstown, N. J., assignor to Radio Corporation of America. Comparator circuit for radio locators. 2,419,025; Apr. 15.
- Mercer, William R., Hightstown, N. J., assignor to Radio Corporation of America. Frequency modulation distance determining system. 2,430,357; Nov. 4.
- Mercer, William R., Hightstown, N. J., assignor to Radio Corporation of America. Comparator circuit. 2,433,287; Dec. 23.
- Merchant, George A., River Forest, Ill. Apparatus for mining coal or similar mineral. 2,424,180; July 15.
- Mercier, Jean, New York, N. Y. Pipe coupling. 2,413,840; Jan. 7.
- Mercier, Jean, New York, N. Y. Unitary control for plural electric motors. 2,422,117; June 10.
- Mercier, Jean, New York, N. Y. Three-way valve. 2,426,941; Sept. 2.
- Mercier, Pierre E., Neuilly, France. Flexible coupling for exhaust conduits of internal-combustion engines. 2,423,462; July 8.
- Mercier, Pierre E., New York, N. Y. Engine, propeller and fan drive. 2,426,635; Sept. 2.
- Mercier, Stanley M., Bexley, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Bearing and shaft assembly. 2,430,236; Nov. 4.
- Merck & Co., Inc., assignee: *See*—  
Foster, Jackson W., and Woodruff.
- Harris, Stanton A.
- Ladenburg, Kurt, Babson, and Tishler.
- Newbery, George.
- Stiller, Eric T.
- Tishler, Max.
- Tishler, Max, and Wellman.
- Trenner, Nelson R.
- Weijlard, John.
- Weijlard, John, Tishler, and Erickson.
- Meredith, Frederick W., London, England, assignor to S. Smith & Sons (England) Limited. Flux valve. 2,414,654; Jan. 21.
- Mergenthaler Linotype Company, assignee: *See*—  
Burt, Harold A.
- Plastaras, James C.
- Merget, Andrew E.: *See*—  
Flowers, Alan E., and Merget.
- Merian, Emanuel, assignee: *See*—  
Marty, Meinrad.



- Meridian Clock Co. (Gt. Britain) Limited, assignee: *See*—  
Rosenfeld, Paul W.
- Merion, Howard D.: *See*—  
Detwiler, George T., Kulp, Moss, and Merion.
- Merit Engineering, Inc., assignee: *See*—  
Stevenson, Robert.
- Merkel, Joseph X., Louisville, Ky., assignor to Air Reduction Company, Incorporated. Rack and pinion mechanism. 2,429,696; Oct. 28.
- Merkur, Irving I., Bronx, N. Y. Reel end alarm. 2,420,832; May 20.
- Merline, Edward O., assignor to N. L. Boxwell, Detroit, Mich. Friction clutch. 2,429,837; Oct. 28.
- Mero, Ralph M.: *See*—  
Pearson, Paul E., and Mero.
- Mero, Ralph M., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Container sealing machine. 2,433,057; Dec. 23.
- Merrell, Edwin J., Eastchester, N. Y., assignor to Phelps Dodge Copper Products Corporation, Dover, Del. Electric device with electron barrier. 2,415,184; Feb. 4.
- Merrell, Wm. S., Company, The, assignee: *See*—  
Shelton, Robert S., and Van Campen.
- Merrett, Earle E., Two Rivers, and G. E. Froelich, Manitowoc, assignors to Hamilton Manufacturing Company, Two Rivers, Wis. Crib construction. 2,429,421; Oct. 21.
- Merriam, John W., Jenkintown, Pa. Flat tire carriage. 2,414,383; Jan. 14.
- Merrick, Layton T., Kansas City, Mo., assignor of one-half to Newman Manufacturing Company. Chemical cartridge and applicator therefor. 2,419,845; Apr. 29.
- Merrill, James A., Barberton, assignor to Wingfoot Corporation, Akron, Ohio. Fuel tank casing. 2,424,701; July 29.
- Merrill, Leslie M., assignee, et al.: *See*—  
Boestad, Gustav K. W.
- Merrill, Marcellus S., assignee: *See*—  
Becker, Ralph W.
- Merrill, Marcellus S., Denver, Colo. Apparatus for straightening frames and the like. 2,422,030; June 10.
- Merrill, Patterson D., assignor to M. B. Skinner Company, South Bend, Ind. Pipe fitting. 2,427,994; Sept. 23.
- Merriman, Henry H., assignor to H. D. Boardman, Jackson, Mich., as trustee. Ground clamp. 2,420,895; May 20.
- Merriman, Henry H., assignor to H. D. Boardman, Jackson, Mich. Rapid traverse pressure unit. 2,421,282; May 27.
- Merritt, Charles E., Columbia, Mo. Clip board. 2,417,879; Mar. 25.
- Merritt, Dale W.: *See*—  
Robertson, Archibald, and Merritt.
- Merritt, Glenn W., Bowerston, Ohio. Facility for parking and garaging airplanes. 2,427,802; Sept. 23.
- Merritt, William F., Middletown, N. Y. Tire chain. 2,427,973; Sept. 23.
- Merten, Eugen, Houston, Tex., assignor to Shell Development Company, San Francisco, Calif. Hydraulic well drilling device. 2,422,031; June 10.
- Merten, Eugene, Houston, Tex., assignor to Shell Development Company, San Francisco, Calif. Hydraulic ram system. 2,424,108; July 15.
- Mertens, Willi, Berlin-Zehlendorf, Germany; vested in the Attorney General of the United States. Hardening of polymers. 2,418,978; Apr. 15.
- Mertens, Willi, Berlin-Zehlendorf, Germany; vested in the Attorney General of the United States. Producing hard electrically insulating articles from polyisobutylene, styrene and divinyl benzene. 2,426,111; Aug. 19.
- Mertes, Richard W., Los Angeles, Calif., assignor to Union Oil Company of California. Petrolatum sulfonate. 2,416,192; Feb. 18.
- Mertins, William A.: *See*—  
Hanrahan, Emery M., and Mertins.
- Merwin, Harry H., Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Material handling apparatus. 2,421,347; May 27.
- Merwin, Harry H., Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Assembling apparatus. 2,423,038; June 24.
- Merwin, Harry H., Rutherford, and G. C. Spillman, Roselle, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Material serving apparatus. 2,430,358; Nov. 4.
- Merwin, Walter J.: *See*—  
Teter, John W., and Merwin.
- Merz, August, East Orange, N. J., assignor to American Cyanamid Company. Preparation of sulfuryl chloride. 2,431,880; Dec. 2.
- Merz, F. O., & Company, assignee: *See*—  
Merz, Frederick O.
- Merz, Frederick O., assignor to F. O. Merz & Company, Philadelphia, Pa. Combined pocketbook and accessory case. 2,419,846; Apr. 29.
- Mesaros, George, Linden, N. J. Circular cutting and ejecting die. 2,433,058; Dec. 23.
- Mesh, Theodore J., Easthampton, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Apparatus for testing spark plugs. 2,430,069; Nov. 4.
- Messenger, Harry P., Pomona, Calif. Cutter for machine tools. 2,419,081; Apr. 15.
- Messenger, Robert P., Kenilworth, and A. E. W. Johnson, Oak Park, Ill., assignors to International Harvester Company. Corn snapping and husking device. 2,424,181; July 15.
- Messer, John H., Pittsburgh, Pa. Protective cover for smoke pipes. 2,423,656; July 8.
- Messerschmidt, Charles, Westbrook, Conn. Ignition apparatus. 2,426,784; Sept. 2.
- Messing, Hjalmar S., New York, N. Y., and C. L. Durkee, Wausau, Wis. Fiber processing apparatus. 2,425,335; Aug. 12.
- Messinger, William, Philadelphia, Pa. Hydropneumatic accumulator. 2,426,320; Aug. 26.
- Messinger, William, Philadelphia, Pa. Antifriction thrust bearing. 2,430,359; Nov. 4.
- Messmore, Harold E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Producing asphaltic materials. 2,420,185; May 6.
- Messner, Carlton, assignor to Continental Motors Corporation, Muskegon, Mich. Fuel injector pump structure. 2,421,899; June 10.
- Messner, Richard: *See*—  
Koehl, Charles R., and Messner.
- Mesta Machine Company, assignee: *See*—  
Iversen, Lorenz.
- Metal Box Company Limited, The, assignee: *See*—  
Davies, Rowland.
- Metal Hydrides, Incorporated, assignee: *See*—  
Alexander, Peter P.
- Metal Textile Corporation, assignee: *See*—  
Ellis, Norman S.
- Goodloe, Alfred M.
- Metal & Thermit Corporation, assignee: *See*—  
Begtrup, Edward F.
- Hirschland, Herbert E., and Ricklin.
- Lowenheim, Frederick A., and Sternfels.
- Metals Controls Corporation, assignee: *See*—  
Durst, George.
- Metals & Controls Corporation, assignee: *See*—  
Bolesky, John D., and Buell.
- Buell, Lewis W.
- Durst, George.
- Gunn, Townsend M., and Wilhelm.
- Savolainen, Unto U.
- Schrump, Jewett F.
- Vaughan, Victor G.
- Metals Recovery Company, assignee: *See*—  
Kek, Walter E.
- Metalwash Machinery Company, assignee: *See*—  
Zademach, Erich R., and Clarke.
- Zademach, Erich R., Clarke, and Ford.
- Metcalfe, Thomas P., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Manufacture of cyanuric chloride. 2,414,655; Jan. 21.
- Met-Elec Corporation, assignee: *See*—  
Reitan, John A.
- Meter Recorder Company, assignee: *See*—  
Pearson, William J.
- Metropolitan-Vickers Electrical Company, assignee: *See*—  
Baumann, Karl.
- Haine, Michael E., Meek, and Craggs.
- Metropolitan-Vickers Electrical Company Limited, assignee: *See*—  
Baumann, Karl.
- Dodds, John M., and Scoles.
- Flurschein, Cedric H.
- Holmes, Phyllis.
- Partington, Walter.
- Metsger, Alfred D., U. S. Navy. Suction servomotor with follow-up device. 2,423,843; July 15.
- Mettler, Hal C., Alhambra, assignor of one-half to L. Spencer, South Pasadena, Calif. Controller for mobile glow discharge systems. 2,423,814; July 8.
- Mettrick, Arthur, Bellmore, and D. Hook, New York, N. Y. Drilling jig. 2,419,223; Apr. 22.
- Metz, Adolphe N. F.: *See*—  
Séchaud, Roger G., and Metz.
- Metzendorf, Joseph L.: *See*—  
Eisenberg, George M., and Metzendorf.
- Metzger, Emerson, Berrien Springs, Mich. Belt type fruit grader with adjustable grading apertures. 2,429,560; Oct. 21.
- Metzger, Floyd J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Production of 1,3-butylene glycol. 2,419,275; Apr. 22.
- Metzger, Floyd J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Continuous production of aldol. 2,433,524; Dec. 30.
- Metzger, William J., East Cleveland, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Coupler shank and yoke connection. 2,431,576; Nov. 25.
- Metzler, Phares H., Seattle, Wash. Slip-sinker. 2,425,069; Aug. 5.
- Metzner, Albert W., assignor to The Standard Register Company, Dayton, Ohio. Pin type feeding device. 2,414,478; Jan. 21.
- Metzner, Albert W., assignor to The Standard Register Company, Dayton, Ohio. Imprinting machine. 2,416,707; Mar. 4.



- Meyer, Alphonse J., Mountain Top, Pa. Trouser creaser. 2,420,493; May 13.
- Meyer, Bernard, Jersey City, N. J. Cigarette dispenser. 2,427,149; Sept. 9.
- Meyer, Charles A., Drexel Hill, and D. Bradbury, Prospect Park, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Wing-mounted jet-propulsion system with controllable discharge outlet. 2,420,323; May 13.
- Meyer, Charles A., Drexel Hill, and A. H. Redding, Swarthmore, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Fuel injector mounting for combustion chambers. 2,422,214; June 17.
- Meyer, Edward, Sioux Falls, and T. J. Poppe, Parker, S. Dak.; said Poppe assignor to said Meyer. Earth moving scraper. 2,418,041; Mar. 25.
- Meyer, Edward P., Freeport, Ill. assignor, by mesne assignments, to First Industrial Corporation, Wilmington, Del. Electric snap switch. 2,425,159; Aug. 5.
- Meyer, Edwin W.: *See*—  
Julian, Percy L., Cole, Magnani, and Meyer.  
Julian, Percy L., Cole, and Meyer.  
Riegel, Byron, Meyer, Gouley, and Beiswanger.
- Meyer, Ewald F., St. Cloud, Minn. Method and apparatus for tagging garments. 2,421,548; May 27.
- Meyer, Fritz, assignor to Gebrüder Bühler, Uzwil, Switzerland. Load transfer apparatus for loose material. 2,416,489; Feb. 25.
- Meyer, George D., Cincinnati, Ohio. Scouring applicator. 2,416,635; Feb. 25.
- Meyer, George G., Potrero, Calif. Animal trap. 2,424,362; July 22.
- Meyer, Gerard A., Gates, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Hardening metallic films. 2,424,043; July 15.
- Meyer, Harry A., assignor to American Blower Corporation, Detroit, Mich. Inlet vanes and control. 2,430,523; Nov. 11.
- Meyer, Howard G., assignor to Acco Products, Inc., Long Island City, N. Y. File folder. 2,429,422; Oct. 21.
- Meyer, Josef, Dietikon, Switzerland. Abrading machine for peeling potatoes. 2,416,837; Mar. 4.
- Meyer, Leonard S., Toledo, Ohio, assignor, by mesne assignments, to Libby-Owens-Ford Glass Company. Making cores for casting light metal alloys. 2,422,118; June 10.
- Meyer, Michel J., Paris, France; vested in the Attorney General of the United States. Ball-and-socket joint for control transmissions. 2,424,409; July 22.
- Meyer, Paul E., Hartford, Conn. Bathing float with propelling appliance. 2,430,360; Nov. 4.
- Meyer, Robert L., East Cleveland, Ohio. Cargo lash fastener. 2,431,819; Dec. 2.
- Meyer, Robert N., Chicago, Ill. Projection navigational instrument. 2,423,513; July 8.
- Meyer, Robert O., assignee: *See*—  
Stretz, Frank L.
- Meyer, Ronald E.: *See*—  
Otto, Ferdinand P., and Meyer.
- Meyer, Stephen E., Hayden, Ariz. Multiple cell flotation apparatus including recycling means. 2,419,497; Apr. 22.
- Meyer, Vernon H., and J. C. Cantley, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Gyroscope. 2,415,899; Feb. 18.
- Meyer, Walter O.: *See*—  
Eaton, Bruce G., Jr., Meyer, Cannon, and Raiche.
- Meyer, William: *See*—  
Krone, Howard C., and Meyer.
- Meyerhoefer, Carl E., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y. Brake for electric motors. 2,429,325; Oct. 21.
- Meyers, Bernard C., Barberton, Ohio, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Purifying metal halides. 2,415,958; Feb. 18.
- Meyers, Charles O., Bartlesville, Okla., assignor to Phillips Petroleum Company. Absorption oil reclaimers. 2,417,007; Mar. 4.
- Meyers, Charles O., Bartlesville, Okla., assignor to Phillips Petroleum Company. Removing metal halide vapors from a hydrocarbon reaction product. 2,428,981; Oct. 14.
- Meyers, Cornelius W., Portland, Oreg. Hydraulic valve tester. 2,426,406; Aug. 26.
- Meyers, Edward C., Long Beach, Calif. Ice skate. 2,414,967; Jan. 28.
- Meyers, Sidney E., New York, N. Y., assignor to Vulcan Soot Blower Corporation. Reciprocating expandable chamber motor with pilot controlled distributing valve. 2,420,896; May 20.
- Meyers, Sidney E., New York, N. Y., assignor to Vulcan Soot Blower Corporation. Automatic pneumatic control and energizing system for reversible air motors. 2,431,187; Nov. 18.
- Meyers, W. F., Company, assignee: *See*—  
Sneva, Ingolf.
- Meyers, Willard F., Demarest, N. J., assignor to Wright Aeronautical Corporation. Scavenge pump drive. 2,416,193; Feb. 18.
- Meyerson, Joseph J., Montclair, N. J., and H. Buchsbaum, assignors to S. Buchsbaum & Company, Chicago, Ill. Garment sustaining means. 2,430,070; Nov. 4.
- Meyerson, Louis B., deceased, by Sanit-All Products Corporation, Greenwich, Ohio, assignee. Sterilizer. Re. 22,832; Jan. 21.
- Mica Insulator Company, assignee: *See*—  
Griffith, Robert L., and Pickney.
- Micafil Ltd., assignee: *See*—  
Wirth, Otto.
- Michael, Stephen E.: *See*—  
Birkinslaw, John H., and Michael.
- Michaelis, Robert: *See*—  
Coulthard, Charles E., Short, and Michaelis.
- Michels Art Bronze Company, The, assignee: *See*—  
Michaels, Frank L.
- Michaels, Frank L., Fort Thomas, assignor to The Michaels Art Bronze Company, Covington, Ky. Counting attachment for parking meters. 2,429,478; Oct. 21.
- Michaels, John I., Wichita, Kans. Pickup bed for tractors. 2,425,892; Aug. 19.
- Michalek, John C.: *See*—  
Erickson, Edwin R., and Michalek.
- Michelman, Joseph, Portsmouth, Ohio. Recovering values from vegetable tanned leather. 2,418,655; Apr. 8.
- Michelman, Nathan, Brooklyn, N. Y. Making tapered tubes. 2,418,312; Apr. 1.
- Michelot, Leonard, San Jose, Calif., assignor to Continental Can Company, Inc., New York, N. Y. Water-cooled solder splash guard. 2,426,837; Sept. 2.
- Michener, William E.: *See*—  
Vilter, Ernest F., Michener, Kraatz, Ruess, and Bach.
- Michiana Products Corporation, assignee: *See*—  
Nygren, Carl.
- Michigan Arterfact Company, assignee: *See*—  
McFall, Thurlow E.
- Michigan Chrome & Chemical Company, assignee: *See*—  
Leidy, Orvis H.
- Michigan Tool Company, assignee: *See*—  
Hall, Calvin E.  
Pelphrey, Harry.
- Mick, Douglas E., Jonesville, assignor to General Motors Corporation, Detroit, Mich. Hardness testing machine. 2,427,151; Sept. 9.
- Micromatic Hone Corporation, assignee: *See*—  
Ellis, Rollo G.  
Kline, John E.
- Micuta, George R., Bridgeport, Conn. Nut lock. 2,427,684; Sept. 23.
- Mid-Continent Petroleum Corporation, assignee: *See*—  
Dons, Eddie M., and Mauro.
- Middel, Hendrik D., Schenectady, N. Y., assignor to General Electric Company. Rectifier type controller. 2,414,317; Jan. 14.
- Middel, Hendrik D., Schenectady, N. Y., assignor to General Electric Company. Phase sensitive modulator. 2,414,318; Jan. 14.
- Middleby-Marshall Oven Company, assignee: *See*—  
Nalbach, John R.
- Middlemiss, Joseph E., Philadelphia, Pa., assignor to United States of America, as represented by the Secretary of War. Mechanical time fuse. 2,420,324; May 13.
- Middler, Alexander J., Detroit, Mich. Front drive toy vehicle. 2,423,248; July 1.
- Middleton, Donald R., assignee, et al.: *See*—  
Bixby, William H.
- Middleton, Edmund B., Woodbridge, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cyanine dyes containing a sulfamate anion. 2,430,845; Nov. 11.
- Middleton, Edmund B., Woodbridge, and G. A. Dawson, Stelton, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Cyanine dye intermediates, dyes, and their preparation. 2,424,483; July 22.
- Middleton, Edmund B., Woodbridge, and G. A. Dawson, Stelton, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Silver halide emulsions sensitized with cyanine dyes containing a benzothio-phenothiazole nucleus. 2,424,484; July 22.
- Middleton, Leslie H., Lucas, Ohio. General control device housing. 2,418,895; Apr. 15.
- Middleton, Leslie H., Toledo, and E. A. Kern, Weston, Ohio. Bellows operated rheostat. 2,423,609; July 8.
- Midgett, Rollie L., Fort Worth, Tex. Self locking gas valve. 2,415,701; Feb. 11.
- Midgley, Albert H., Northwood, and D. J. Grey, Swanley, England. Fuze and setting mechanism therefor. 2,415,362; Feb. 4.
- Midland Motor Cylinder Company Limited, assignee: *See*—  
Woolley, Frederick A.
- Midland Steel Products Company, The, assignee: *See*—  
Wallace, Robert H., and Knudsen.
- Midtling, Carl R., and H. S. Young, Jr., U. S. Navy. Securing inner and outer sleeves to hose ends. 2,427,685; Sept. 23.
- Mid-West Refineries, Inc., assignee: *See*—  
Ernest, Joseph C.
- Midwest Rubber Reclaiming Company, assignee: *See*—  
Le Beau, Ree V.
- Mieher, Walter W., Mineola, and J. D. Mallett, Garden City, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Directive antenna. 2,429,640; Oct. 28.
- Miescher, Karl, Riehen, and J. Heer, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. Separation and purification of stereoisomeric hydrophenanthrene carboxylic acids and cyclic homologues thereof. 2,429,166; Oct. 14.
- Miss, Fred, Gary, Ind. Centrifugal pump. 2,419,905; Apr. 29.



- Miesse, Jules, Brussels, Belgium. Crankshaft grinding machine. 2,424,109; July 15.
- Miessner, Benjamin F., Harding Township, Morris County, N. J., assignor to Miessner Inventions, Inc. Apparatus for the production of music. 2,414,886; Jan. 28.
- Miessner Inventions, Inc., assignee: *See*—  
Miessner, Benjamin F.
- Mighton, Charles J.: *See*—  
Schroeder, Herman E., and Mighton.
- Mighton, Charles J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Synthetic rubberlike butadiene acrylonitrile-aliphatic vinyl ethinyl carbinol material. 2,424,182; July 15.
- Mighton, Charles J., and H. E. Schroeder, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Butadiene-styrene copolymer plasticized with a metallic drier and a ketone or aldehyde. 2,427,063; Sept. 9.
- Mihalyi, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Film container reel. 2,422,032; June 10.
- Mihalyi, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Orthopseudo stereo range finder. 2,422,033; June 10.
- Mikeska, Louis A.: *See*—  
Arundale, Erving, and Mikeska.
- Mikeska, Louis A., Westfield, N. J., assignor to Standard Oil Development Company. Compounded lubricating oil. 2,422,276; June 17.
- Mikeska, Louis A., Westfield, N. J., assignor to Standard Oil Development Company. Lubricating oil compositions containing wax modifying agents. 2,429,479; Oct. 21.
- Mikeska, Louis A., and A. R. Kittleson, Westfield, N. J., assignors to Standard Oil Development Company. Lubricant. 2,415,833; Feb. 18.
- Mikina, Stanley J., Wilkingsburg, Pa. Artificial minnow. 2,423,717; July 8.
- Mikina, Stanley J., Wilkingsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Drive. 2,428,807; Oct. 14.
- Mil-Art Sportswear Co., assignee: *See*—  
Mintzes, Louis.
- Milas, Nicholas A., Belmont, Mass., assignor to Research Corporation, New York, N. Y. Hydroxylation of unsaturated organic compounds containing an alcohol or ether group. 2,414,385; Jan. 14.
- Milas, Nicholas A., Belmont, Mass., assignor to Research Corporation, New York, N. Y. Dimethylamino vitamin A and its conversion to vitamin A. 2,415,834; Feb. 18.
- Milas, Nicholas A., Belmont, Mass., assignor to Research Corporation, New York, N. Y. Vitamin A acid and its esters and method of making them. 2,424,994; Aug. 5.
- Milas, Nicholas A., Belmont, Mass., assignor to Research Corporation, New York, N. Y. Synthesis of vitamin A. 2,432,921; Dec. 16.
- Milburn, Alexander, Company, The, assignee: *See*—  
Jenkins, Alexander F.
- Milburn, Guy, and W. H. Schnacke, Evansville, Ind. High-frequency generator. 2,417,880; Mar. 25.
- Milburn, John E., Redwood City, Calif. Child's cart. 2,420,088; May 6.
- Miles Aircraft Limited, assignee: *See*—  
Heel, Lionel C.
- Miles, Charles E., Hampton-on-Thames, England. Slipway cradle. 2,419,361; Apr. 22.
- Miles, George S., West Englewood, assignor to Bendix Aviation Corporation, Teterboro, N. J. Weather station. 2,433,288; Dec. 23.
- Miles, John A., and F. F. Long, Chester, and W. C. Giles, Swarthmore, Pa., assignors to American Viscose Corporation, Wilmington, Del. Guide-mounting arrangement. 2,428,288; Sept. 30.
- Miles, John R., West Englewood, assignor to Bendix Aviation Corporation, Teterboro, N. J. Triplet objective lens. 2,417,942; Mar. 25.
- Miles, John R., West Englewood, assignor to Bendix Aviation Corporation, Teterboro, N. J. Eyepiece unit for telescopic systems of the class including binoculars. 2,419,151; Apr. 15.
- Miles, John R., West Englewood, assignor to Bendix Aviation Corporation, Teterboro, N. J. Body and modified first porro type erecting system for telescopic instruments. 2,424,282; July 22.
- Miles, John R., West Englewood, assignor to Bendix Aviation Corporation, Teterboro, N. J. Optical system for telescopes and binoculars. 2,424,283; July 22.
- Miles Laboratories, Inc., assignee: *See*—  
Kamlet, Jonas.
- Lohley, Frederick A., Williams, and Lowell.
- Miles, Robert H., Rochester, N. Y. Automatic control for aeroplanes. 2,432,783; Dec. 16.
- Miles, Weldon C.: *See*—  
Veit, Hermann E., and Miles.
- Miles, William S., Hastings on Hudson, assignor to Johns-Manville Corporation, New York, N. Y. Device and method of securing corrugated sheets. 2,424,410; July 22.
- Milholland, Harry C., New York, N. Y., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Device for recording television programs. 2,414,319; Jan. 14.
- Milkweed Products Development Corporation, assignee: *See*—  
Berkman, Boris, Bacon, and Weber.
- Millar, Joseph, Winnipeg, Manitoba, Canada. Shoe clamp. 2,416,589; Feb. 25.
- Millard, Emmor H., Mount Lebanon, and F. R. Wilson, Canonsburg, assignors to Steel Processing Company, Pittsburgh, Pa. Method and apparatus for bending plate and the like. 2,419,724; Apr. 29.
- Millard, Irwin W., assignee: *See*—  
Seidel, Robert.
- Millard, James F., Seattle, Wash. Tube construction. 2,420,715; May 20.
- Millelot, Paul W., Jr., Maywood, Ill., assignor to American Can Company, New York, N. Y. Sealing composition. 2,419,224; Apr. 22.
- Miller, Abba, Cleveland, Ohio. Parking device. 2,416,838; Mar. 4.
- Miller, Albert A., Wellsburg, W. Va. Oil can handle and screw top. 2,431,881; Dec. 2.
- Miller, Albert F., New York, N. Y. Electric burglar alarm. 2,423,610; July 8.
- Miller, Alfred J., Garwood, W. C. Weidner, Grantwood, and J. Kolody, Basking Ridge, N. J., assignors to The Linde Air Products Company. Machine for surface conditioning metal bodies. 2,429,326; Oct. 21.
- Miller, Alvin R.: *See*—  
Marks, Alvin, Weiss, and Miller.
- Miller, Andrew E., assignor to The Wabash Fibre Box Company, Terre Haute, Ind. Chick box spacer. 2,417,008; Mar. 4.
- Miller, Arthur J., Newark, and O. J. Mueller, Rutherford, assignors to Federal Telephone and Radio Corporation, Newark, N. J. Selenium element and method. 2,424,995; Aug. 5.
- Miller, Arthur S., C. W. Frank, and R. R. Hagglund, Minneapolis, Minn. Airplane hangar, administrative, and shop unit. 2,420,186; May 6.
- Miller, Bert C., Montclair, assignor to Bert C. Miller, Inc., East Orange, N. J. Coating with thermoplastic material. 2,417,009; Mar. 4.
- Miller, Bert C., Inc., assignee: *See*—  
Miller, Bert C.
- Miller, C. Roy: *See*—  
Ekleberry, James F.
- Miller, Carroll E., assignor to Cone Automatic Machine Company, Inc., Windsor, Vt. Turret locking mechanism. 2,417,605; Mar. 18.
- Miller, Chant A., Winamac, Ind. Fishing pole holder. 2,429,288; Oct. 21.
- Miller, Charles C., Springfield, and R. H. Prewitt, Lansdowne, Pa., assignors to Kellett Aircraft Corporation. Gear drive mechanism. 2,428,982; Oct. 14.
- Miller, Charles E.: *See*—  
Gleitz, Herbert, Thyreen, and Miller.
- Miller, Charles E., Pasadena, assignor to Bendix Aviation Corporation, South Bend, Ind. Actuator. 2,413,882; Jan. 7.
- Miller, Christian, assignor to Edwards and Company, Inc., Norwalk, Conn. Push-button switch construction. 2,427,015; Sept. 9.
- Miller Company, The, assignee: *See*—  
Beals, Gillson W.
- De Lancey, Ralph W.
- Miller, Constantine G., assignor to The Meaker Company, Chicago, Ill. Continuous wire and strip electroprocessing machine. 2,431,065; Nov. 18.
- Miller, Dallas A., Lagunitas, and F. Deauville, San Francisco, Calif. Remote control means for electrical circuits. 2,419,276; Apr. 22.
- Miller, Donald L.: *See*—  
Buxton, James E., and Miller.
- Miller, Donald L., Pine City, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Engine starter drive. 2,420,238; May 6.
- Miller, Donald L., Pine City, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Starter for internal combustion engines. 2,420,289; May 6.
- Miller, Edward F., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Combined wallet and card case. 2,422,432; June 17.
- Miller, Edward G., and R. E. Engberg, assignors, by mesne assignments, to Allied Control Company, Inc., New York, N. Y. Switch. 2,418,556; Apr. 8.
- Miller, Edward J.: *See*—  
Hill, Arthur M., Miller, and Baker.
- Miller, Edward L., Moline, Ill., assignor to American Machine and Metals, Inc., New York, N. Y. Centrifugal machine. 2,421,709; June 3.
- Miller, Edwin A., Fairfield, Conn. Mechanism for precision switches. 2,428,172; Sept. 30.
- Miller, Elmer L.: *See*—  
Walther, George, and Miller.
- Miller, Elmer V., Duluth, Minn. Abrasive strip holder. 2,424,702; July 29.
- Miller, Emil R., U. S. Navy, Bremerton, Wash. Cutter. 2,430,883; Nov. 18.
- Miller Engineering Corporation, assignee: *See*—  
Miller, Raymond J.
- Miller, Frances, Brooklyn, N. Y. Garment hanger. 2,419,362; Apr. 22.
- Miller, Frank A., assignor to Buffalo Machinery Company, Inc., Buffalo, N. Y. Precision coupling. 2,429,561; Oct. 21.
- Miller, Frank J., deceased, South Milwaukee; L. R. Miller, executrix, assignor to Pressure-Jet Systems, Inc., Milwaukee, Wis. Conditioning apparatus for steam heating systems. 2,427,016; Sept. 9.



- Miller, Fred F., Jr., Berkley, assignor to The Gear Grinding Machine Company, Hamtramck, Mich. Flexible housing for universal joints, etc. 2,426,701; Sept. 2.
- Miller, Fred M., Bala-Cynwyd, assignor to General Refractories Company, Philadelphia, Pa. Blast furnace bottom and constructing same. 2,413,988; Jan. 7.
- Miller, Fred M., Bala-Cynwyd, A. C. Shape, Upper Darby, W. H. McClelland, Wynnewood, and G. C. Fay, Beechwood Park, assignors to General Refractories Company, Philadelphia, Pa. Automatic multiple stoker control. 2,418,272; Apr. 1.
- Miller, George L., U. S. Army, Hackensack, N. J. Check valve. 2,426,040; Aug. 19.
- Miller, George W., Sapulpa, Okla. Jack connector for power transmission lines. 2,418,040; Mar. 25.
- Miller, Gordon H., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Recovery of furfural from furfural-polymer mixtures. 2,428,120; Sept. 30.
- Miller, Grover C., San Gabriel, Calif. Anastomosis ring. 2,428,918; Oct. 14.
- Miller, Grover C., San Gabriel, assignor to Gromiller, Inc., Los Angeles, Calif. Apparatus for fusing the coating on tablets. 2,421,801; June 10.
- Miller, Gustavus H., Portland, Oreg. Synthetic resins and adhesives and making same. Re. 22,828; Jan. 14.
- Miller, Gustavus H., Portland, Oreg. Making a water and oil thinnable coating composition. 2,426,277; Aug. 26.
- Miller, Harold F., and J. A. Crowe, Dedham, and H. T. Barker, assignors to Bird & Son, Inc., East Walpole, Mass. Insole. 2,414,542; Jan. 21.
- Miller, Harold F., Pittsburgh, and S. J. Moore, Munhall, Pa. Lubricating and cooling compound for cold reducing mills. 2,432,784; Dec. 16.
- Miller, Harry: *See*—  
Hale, William J., and Miller.
- Miller, Harry, Columbia, Mo., assignor to National Agrol Company, Inc., New York, N. Y. Dehydration of organic compounds by catalytic action. 2,428,673; Oct. 7.
- Miller, Harry A., Dundalk, assignor to T. W. Maskell, Baltimore, Md. Adjustable jig bushing. 2,424,485; July 22.
- Miller, Harry B., assignor to The Brush Development Company, Cleveland, Ohio. Endless tape magnetic recording-reproducing devices. 2,426,838; Sept. 2.
- Miller, Harry F.: *See*—  
Kern, Edward A., and Miller.
- Miller, Harry F., and L. W. Foster, Pittsfield, Mass., assignors to General Electric Company. Dielectric sheet material. 2,414,320; Jan. 14.
- Miller, Harry F., and R. G. Flowers, Pittsfield, Mass., assignors to General Electric Company. Preparing n-vinyl carbazole. 2,426,465; Aug. 26.
- Miller, Harvey L., Siler City, N. C. Endless abrasive belt sanding machine. 2,424,044; July 15.
- Miller, Henry E., Menan, Idaho. Potato harvester with vine lifter. 2,416,937; Mar. 4.
- Miller, Henry L., Mobile, Ala. Apparatus for catching shrimp. 2,414,055; Jan. 7.
- Miller, Heymen R., New York, N. Y. Warming device. 2,429,234; Oct. 21.
- Miller, Hoke S., Stamford, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Production of acrylic nitrile. 2,413,773; Jan. 7.
- Miller, Homer B., Gardiner, Maine, assignor to United Shoe Machinery Corporation, Flemington, N. J. Jointing machine. 2,423,514; July 8.
- Miller, Horace P., Oakland, Calif. Fuel pump. 2,414,696; Jan. 21.
- Miller, Howard C., New York, N. Y. Knife sharpening device. 2,431,188; Nov. 18.
- Miller, Ira H., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Cap feeding device. 2,423,333; July 1.
- Miller, James B., Webster Groves, assignor to Mines Equipment Company, St. Louis, Mo. Portable vulcanizer. 2,415,959; Feb. 18.
- Miller, James B., Webster Groves, and J. H. Simpson, Maplewood, assignors to Mines Equipment Company, St. Louis, Mo. Electric cable unit and making the same. 2,421,155; May 27.
- Miller, James S., Trenton, N. J. Articulator with an operating handle for grinding and an adjustable incisive guide with arcuate movement. 2,428,808; Oct. 14.
- Miller, John M., Washington, D. C. Determining the resonant frequency of series resonant electrical network. 2,424,249; July 22.
- Miller, John W., assignor to Motor Wheel Corporation, Lansing, Mich. Draft regulator. 2,416,765; Mar. 4.
- Miller, John W., assignor to Motor Wheel Corporation, Lansing, Mich. Chimney hood. 2,427,413; Sept. 16.
- Miller, John W., and R. E. Fell, assignors to Motor Wheel Corporation, Lansing, Mich. Fuel supply and ignition control for combustion apparatus. 2,416,766; Mar. 4.
- Miller, John W., and R. E. Fell, assignors to Motor Wheel Corporation, Lansing, Mich. Thermostat. 2,427,615; Sept. 16.
- Miller-Jonas Holding Co., Inc., assignee: *See*—  
Miller, Louis P.
- Miller, Joseph R., Forest Hills, assignor to Bendix Aviation Corporation, Brooklyn, N. Y. Projector apparatus. 2,421,077; May 27.
- Miller, Jules, Atlantic City, N. J. Polishing instrument for metal musical strings. 2,422,581; June 17.
- Miller, Karl H., North Canton, assignor to Diebold, Incorporated, Canton, Ohio. Rotary card index and tray. 2,429,729; Oct. 28.
- Miller, Kinney I., Lancaster, Mo. Transportation box for baby chicks. 2,415,143; Feb. 4.
- Miller Laundry Machinery Company, assignee: *See*—  
Ternes, Raymond F.
- Miller, Lauritz N., Eugene, Oreg. Differential convertible gasoline-Diesel engine. 2,423,039; June 24.
- Miller, Lawrence C., Charlestown, R. I. Expandable chain. 2,430,776; Nov. 11.
- Miller, Lawrence C., Charlestown, R. I. Expandable bracket. 2,430,777; Nov. 11.
- Miller, Lawrence E., assignor to Hanes Hosiery Mills Co., Winston-Salem, N. C. Lubricating system. 2,414,887; Jan. 28.
- Miller, Leslie T., Stoneleigh, B. T. Salmon, Towson, and C. L. Zitz, assignors to The Glenn L. Martin Company, Baltimore, Md. Exhaust conduit. 2,420,964; May 20.
- Miller, Lewis B., assignor to Keasbey & Mattison Company, Ambler, Pa. Magnesium basic carbonate. Re. 22,952; Dec. 23.
- Miller, Lillian R., executrix: *See*—  
Miller, Frank J.
- Miller, Logan C., Ann Arbor, and G. E. Scarlett, Detroit, assignors to Ford Motor Company, Dearborn, Mich. Apparatus for constructing aircraft wings. 2,428,674; Oct. 7.
- Miller, Louis, New York, N. Y. Extension lock for bicycles and the like. 2,430,524; Nov. 11.
- Miller, Louis P., assignor to Miller-Jonas Holding Co., Inc., Walden, N. Y. Method of forming laps. 2,431,066; Nov. 18.
- Miller, Max B., & Co., Inc., assignee: *See*—  
Tuttle, Malcolm H.
- Miller, Melvin G., Houston, Tex. Catch basin. 2,432,203; Dec. 9.
- Miller, Merton R., Evanston, and A. N. Ogden, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Cathode-ray apparatus and controlling the ray. 2,418,133; Apr. 1.
- Miller, Milo F., Kansas City, Mo. Sound producing instrument. 2,414,656; Jan. 21.
- Miller, Milo F., Kansas City, Mo. Electrical switching apparatus. 2,432,581; Dec. 16.
- Miller, Nicholas, Berwyn, Ill. Eye-testing apparatus for indicating pupillary diameters. 2,424,363; July 22.
- Miller, Ohmer R., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Impulse generator. 2,414,479; Jan. 21.
- Miller, Ohmer R., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Time measuring system. 2,422,698; June 24.
- Miller, Ohmer R., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Submarine locating system. 2,433,885; Dec. 30.
- Miller, Orville W., assignee: *See*—  
Fisler, Royal E.
- Miller Pottery Engineering Company, assignee: *See*—  
Miller, William J.
- Miller Printing Machinery Co., assignee: *See*—  
Kunz, John.
- Miller, Ralph: *See*—  
Hixson, Arthur W., and Miller.
- Miller, Ralph, Buffalo, N. Y. Liquid fuel injection apparatus. 2,420,550; May 13.
- Miller, Ralph A.: *See*—  
Staples, Dana R., and Miller.
- Miller, Ray S.: *See*—  
Coates, Charles H., and Miller.
- Miller, Raymond J., Detroit, Mich. Motion-picture projector. 2,429,364; Oct. 21.
- Miller, Raymond J., Detroit, Mich. Mechanism for controlling welding current. 2,430,989; Nov. 18.
- Miller, Raymond J., assignor to Hydraulic Brake Company, Detroit, Mich. Fluid torque converter. 2,418,362; Apr. 1.
- Miller, Raymond J., assignor to Miller Engineering Corporation, Detroit, Mich. Temperature control mold. 2,420,003; May 6.
- Miller, Raymond J., assignor, by mesne assignments, to Miller Engineering Corporation, Detroit, Mich. Making patterns. 2,420,756; May 20.
- Miller, Raymond J., assignor to Miller Engineering Corporation, Detroit, Mich. Temperature control mold for casting. 2,423,151; July 1.
- Miller, Raymond J., Detroit, Mich., assignor to American Pattern and Manufacturing Co. Guide roller assembly for motion-picture projectors. 2,423,334; July 1.
- Miller, Raymond J., assignor to American Pattern and Manufacturing Co., Detroit, Mich. Motion-picture projector. 2,427,295; Sept. 9.
- Miller, Raymond J., assignor to American Pattern and Manufacturing Co., Detroit, Mich. Motion picture projector. 2,427,296; Sept. 9.
- Miller, Richard D., administrator: *See*—  
MacGregor, Wallace F.
- Miller, Robert A., Tarentum, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Emergency door apparatus. 2,421,900; June 10.
- Miller, Robert D.: *See*—  
Muzzey, David S., Jr., and Miller.
- Miller, Robert D., New Hope, Pa. Metal ridge shingle. 2,429,480; Oct. 21.



- Miller, Robert H., Canton, Ill., assignor to International Harvester Company. Tractor plow and hitch. 2,416,194; Feb. 18.
- Miller, Robert J.: *See*—  
Rutherford, John T., and Miller.
- Miller, Roland M., Bay Village, Ohio. Combination guide and label. 2,430,525; Nov. 11.
- Miller, Roman R., Washington, D. C. Oxidation of alkali metals. 2,414,116; Jan. 14.
- Miller, Rudolph W.: *See*—  
Bloom, Ralph, Jr., Klemgard, Ronay, and Miller.
- Miller, Theodore, assignor to George Gorton Machine Co., Racine, Wis. Production of electric arc etching electrodes. 2,425,113; Aug. 5.
- Miller, Theodore, assignor to George Gorton Machine Co., Racine, Wis. Magnetic clutch. 2,426,942; Sept. 2.
- Miller, Verle A., and W. G. Lovell, assignors to General Motors Corporation, Detroit, Mich. Synthesis of olefins by reacting an olefin with an alkyl halide in the presence of calcium oxide. 2,417,119; Mar. 11.
- Miller, Walter, and J. L. D. Morrison, Benton Harbor, Mich. Latch operated axially engaging positive clutch. 2,432,483; Dec. 9.
- Miller, Walter T., assignee: *See*—  
Gargan, Joseph.
- Miller, Wesley B., Freeport, N. Y. Flashlight. 2,427,017; Sept. 9.
- Miller, Wilbur, Pasadena, Calif. Bath and massage brush. 2,414,321; Jan. 14.
- Miller, William: *See*—  
Brewster, Sol, and Miller.
- Miller, William A., Port Jefferson Station, N. Y., assignor to Radio Corporation of America. Electronic indicator system. 2,422,361; June 17.
- Miller, William A., Port Jefferson, N. Y., assignor to Radio Corporation of America. Pulse modulation system. 2,432,204; Dec. 9.
- Miller, William A., Port Jefferson, and E. R. Shenk, Brooklyn, N. Y., assignors to Radio Corporation of America. Triggering system for obtaining a sharp-sided output pulse shorter than the input pulse. 2,430,725; Nov. 11.
- Miller, William A., Port Jefferson, and E. R. Shenk, Brooklyn, N. Y., assignors to Radio Corporation of America. Modified sweep circuit for cathode ray tubes. 2,431,766; Dec. 2.
- Miller, William, Corporation, assignee: *See*—  
Downs, George W., and Kelly.
- Miller, William J., assignor to Miller Pottery Engineering Company, Swissvale, Pa. Apparatus for appendaging hollow dinnerware. 2,416,636; Feb. 25.
- Miller, William J., Swissvale, assignor to Miller Pottery Engineering Company, Swissvale, Pittsburgh, Pa. Apparatus for decorating pottery ware. 2,419,963; May 6.
- Miller, William J., assignor to Miller Pottery Engineering Company, Swissvale, Pa. Apparatus for feeding clay to molds in the manufacture of pottery ware. 2,421,572; June 3.
- Miller, William J., assignor to Miller Pottery Engineering Company, Swissvale, Pittsburgh, Pa. Apparatus for conditioning pottery molds. 2,426,518; Aug. 26.
- Miller, William P., Oakland, M. A. Davalle, San Leandro, and V. E. Dickens, Alameda, Calif. Toilet. 2,426,230; Aug. 26.
- Miller, Wilmore H., Evanston, Ill., assignor to The Kendall Company, Boston, Mass. Pressure-sensitive adhesive tape dispenser. 2,424,486; July 22.
- Miller Wrapping and Sealing Machine Company, assignee: *See*—  
Arvidson, Bengt A.
- Millette, Roland J., Boston, Mass. Clamping device. 2,428,631; Oct. 7.
- Millette, Roland J., Boston, Mass. Tube clamping apparatus. 2,432,435; Dec. 9.
- Milleville, Bertram J., assignor to American Steel Foundries, Chicago, Ill. Car truck. 2,419,188; Apr. 15.
- Millholland, James H., Philadelphia, Pa. Roller paint-coating device. 2,424,323; July 22.
- Millidge, Alfred F.: *See*—  
Peters, Rudolph A., Stocken, Thompson, Woodward, Millidge, and Gasson.
- Millie Patent Holding Co., Inc., assignee: *See*—  
Barnett, Louis.
- Milliken, Edward C., assignor to The Bowerston Shale Company, Bowerton, Ohio. Spacer collar and pipe. 2,422,582; June 17.
- Millikin, Arnold S., and J. H. Apel, assignors to The Jaeger Machine Company, Columbus, Ohio. Machine for surface-finishing road paving. 2,426,702; Sept. 2.
- Millikin, Arnold S., and J. H. Apel, assignors to The Jaeger Machine Company, Columbus, Ohio. Machine for surface-finishing road paving. 2,426,703; Sept. 2.
- Millns, Terence W., assignor to Rotax Limited, London, England. Electromagnetically operated jack-type actuator. 2,430,405; Nov. 4.
- Mills, Albert W., and F. J. Furman, Endicott, and E. J. Rabenda, Binghamton, assignors to International Business Machines Corporation, New York, N. Y. Printing mechanism. 2,413,883; Jan. 7.
- Mills, Arthur G., Sioux Rapids, Iowa. Mower guard. 2,433,704; Dec. 30.
- Mills, Burton L., assignor to Clark Equipment Company, Buchanan, Mich. Swivel pipe joint. 2,419,906; Apr. 29.
- Mills, George I., Springfield, Mo. Folding typewriter construction. 2,418,785; Apr. 8.
- Mills, Gerald G., Daly City, Calif. Filter adapter for cameras. 2,420,379; May 13.
- Mills, Herbert E., assignor to The Murray Corporation of America, Detroit, Mich. Burner grid. 2,422,918; June 24.
- Mills, Irwin F., Associates, assignee: *See*—  
Beder, Samuel L.
- Mills, John H., and R. L. Tanner, Jr., Rockport, Tex. Decoy duck. 2,430,645; Nov. 11.
- Mills, Le Roy G., Bronxville, N. Y. Suggestion cabinet. 2,421,710; June 3.
- Mills, Winton G. B.: *See*—  
Oxley, Horace F., Thomas, and Mills.
- Millson, Henry E.: *See*—  
Lacey, Harold T., Millson, and Helss.
- Millstein, Jacob H., Jeannette, Pa. Toy gun and container. 2,424,045; July 15.
- Milner, Harry L., Cheltenham, England, assignor to Rotol Limited. Airscrew. 2,432,673; Dec. 16.
- Milnor, Leland T., assignor to The Cincinnati Manufacturing Company, Cincinnati, Ohio. Sound deadening panel. 2,423,199; July 1.
- Milone, Samuel, Philadelphia, Pa. Game apparatus for playing card games. 2,432,248; Dec. 9.
- Milprint, Inc., assignee: *See*—  
Hanson, Roy E.
- Milsteel Products Co., assignee: *See*—  
Witzel, Ernst.
- Miltnerberger, Eugene F.: *See*—  
Plant, Irvin R., and Miltnerberger.
- Milton, Thomas W., assignor to Flex-O-Tube Company, Detroit, Mich. Shielded spark plug connector. 2,420,897; May 20.
- Milward, John H., Albany, Ga., assignor to The Forest Machinery Company, Inc. Wood-trimming apparatus. 2,415,601; Feb. 11.
- Milwaukee Gas Specialty Company, assignee: *See*—  
Alfrey, Henry F.  
McCarty, Lourdes V.
- Mimex Company, Inc., assignee: *See*—  
Nagle, Harold W., and Haines.
- Mims, William J., Birmingham, Ala. Comb. 2,416,704; Mar. 4.
- Minarik, Rudolph A., Vandergrift, assignor of one-half to R. E. Meech, Pittsburgh, Pa. Insulator for electrical wire conductors. 2,426,466; Aug. 26.
- Minchin, Cecil W. H., assignor to Mawdsleys Limited; Dursley, England. Dynamoelectric machine. 2,431,067; Nov. 18.
- Minchin, Cecil W. H., and A. J. Parsons, assignors to Mawdsley's Limited, Dursley, England. Dynamoelectric machine. 2,423,040; June 24.
- Minder, Jean: *See*—  
Weigle, Jacques E., and Minder.
- Mine Safety Appliances Company, assignee: *See*—  
Dauster, John F.  
Lubelsky, Benjamin L., and Hartline.  
Sharbaugh, William J., and Yant.
- Minella, Andrew L., Jr., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Filler cap. 2,416,637; Feb. 25.
- Miner, Amos B., assignee: *See*—  
Miner, Amos T.
- Miner, Amos T., Chicago, Ill., assignor to A. B. Miner, Williamsville, N. Y. Foldable shelter tent. 2,420,898; May 20.
- Miner, George A., Manchester, N. H., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe sewing machine. 2,416,767; Mar. 4.
- Miner, Henry A., Evanston, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber. 2,415,960; Feb. 18.
- Miner, Irving O., East Providence, assignor to Builders Iron Foundry, Providence, R. I. Telemetric apparatus. 2,424,766; July 29.
- Miner, W. H., Inc., assignee: *See*—  
Dath, George E.  
Haseltine, Stacy B.  
Lehman, Edward H.  
Liuk, John H.  
Miner, Henry A.  
Olander, Roland J.
- Miner, Walter A., Jr., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Telephone drop. 2,429,641; Oct. 28.
- Minerals Beneficiation, Incorporated, assignee: *See*—  
Erck, Louis J.  
Rakowsky, Victor.
- Minerals Separation North American Corporation, assignee: *See*—  
Greene, Ernest W., Sherertz, and Cole.  
Stokes, Edwin B.
- Mines Equipment Company, assignee: *See*—  
Miller, James B.  
Miller, James B., and Simpson.
- Minich, Arthur, Westfield, assignor to Nuodex Products Co., Inc., Elizabeth, N. J. Copper hydroxy soaps. 2,423,611; July 8.
- Mininberg, Nathan D., New York, N. Y. Vibrating motor-driven exercising machine that causes waist bending. 2,420,965; May 20.



- Mining Engineering Company Limited, The, assignee: *See—*  
 Bates, George F.  
 Moore, Matthew S.  
 Myborg, Tage G.
- Mining Process and Patent Company, assignee: *See—*  
 Finney, John H. V.  
 Logue, Leland H.
- Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, assignee: *See—*  
 Jones, John M., and Connell.  
 Peters, Rudolph A., Stocken, Thompson, Woodward, Millidge, and Gasson.
- Minkow, Robert, New York, N. Y. Feed roll for wire-stitching machines. 2,428,316; Sept. 30.
- Minneapolis-Honeywell Regulator Company, assignee: *See—*  
 Baak, Albert E.  
 Beam, Vilynn O., Wildon, and Cyr.  
 Borell, George L.  
 Borse, Felix W., and Hermanson.  
 Busse, Francis A., and Wilson.  
 Cyr, Benjamin.  
 Dahline, Lawrence J., and Field.  
 Field, William J.  
 Gille, Willis H.  
 Gille, Willis H., Field, and Upton.  
 Gille, Willis H., Field, and Wilson.  
 Haselberger, Raymond E.  
 Isserstedt, Siegfried G.  
 Kliever, Waldo H.  
 Kliever, Waldo H., and Franzel.  
 Malek, Sidney K.  
 May, Merle H.  
 Newton, Alwin B.  
 Rosche, John O.  
 Rusler, George W.  
 Sparrow, Hubert T.  
 Sparrow, Hubert T., and Cyr.  
 Strother, Fred P.  
 Taylor, Daniel G.  
 Upton, Albert P.  
 Whempner, Russell H.  
 Wilson, John M.  
 Wilson, John M., and Busse.
- Minneapolis-Moline Power Implement Company, assignee: *See—*  
 Albertson, Victor N.  
 Ronning, Martin, and Keith.  
 Swenson, William E., and Albertson.
- Minneapolis Regulator Company, assignee: *See—*  
 Scoggin, Elmer K.
- Minneci, Salvatore, Pittsfield, Mass., assignor to General Electric Company. Electric switch. 2,418,363; Apr. 1.
- Minnesota Linseed Oil Paint Company, assignee: *See—*  
 Parkin, Fremont P., and Walker.
- Minnesota Mining & Manufacturing Company, assignee: *See—*  
 Bowers, Ernest C.  
 Buzzell, Maurice E., and Swenson.  
 Cross, Bert S.  
 Fredrickson, Russell H., and Stephens.  
 Herchenrider, Henry R.  
 Lindner, Gordon F., and Livermore.  
 March, Cecil C.  
 Olson, John M.  
 Palmquist, Philip V.  
 Phillippi, Matthew H.  
 Randolph, Chalmers H.
- Minnesota and Ontario Paper Company, assignee: *See—*  
 Barrett, William H., and Asdell.
- Minney, Aubrey, Santa Rosa, Calif. Gaff Guard. 2,419,363; Apr. 22.
- Minnick, Leonard J., Cheltenham, assignor to G. & W. H. Corson, Inc., Plymouth Meeting, Pa. Hydrated lime product and making the same. 2,423,335; July 1.
- Minnium, Byron B., assignor to Erie Resistor Corp., Erie, Pa. Electric capacitor. 2,430,433; Nov. 4.
- Minsk, Louis M.: *See—*  
 Kenyon, William O., and Minsk.
- Minsk, Louis M., and C. C. Unruh, assignors to Eastman Kodak Company, Rochester, N. Y. Resinous copolymer of a diacylate of an unsaturated aldehyde. 2,417,404; Mar. 11.
- Minter, Clarke C., East Orange, assignor to Breeze Corporations, Inc., Newark, N. J. Exhaust gas analyzer. 2,428,121; Sept. 30.
- Minton, Clarence W., assignor to Hold Stitch Fabric Machine Company, Nashville, Tenn. Knitted fabric. 2,431,068; Nov. 18.
- Minton, Gerald Z., and L. V. Black, Tarentum, Pa., assignors to Pittsburgh Plate Glass Company. Glass supporting carriage. 2,423,249; July 1.
- Minturn, Herbert A., trustee: *See—*  
 Bradford, Joseph L.
- Mintzes, Louis, assignor of one-half to Mil-Art Sportswear Co., Brooklyn, N. Y. Convertible athletic garment. 2,418,979; Apr. 15.
- Minuto, Octavius J., Hamilton, Ohio. Gauge for testing tapers. 2,413,841; Jan. 7.
- Mirfield, George E., and E. H. Connor, assignors to The Youngstown Sheet and Tube Company, Youngstown, Ohio. Apparatus for inspecting tin plate or the like. 2,430,526; Nov. 11.
- Mironowicz, Vladimir C., Sioux City, Iowa, assignor to Wincharger Corporation. Dynamotor. 2,427,919; Sept. 23.
- Mishawaka Rubber and Woolen Manufacturing Company, assignee: *See—*  
 Shaffer, Alfred E.
- Miskel, John J., Brooklyn, N. Y., assignor to Nopco Chemical Company, Harrison, N. J. Rubber latex extended with an aqueous emulsion of a cracked gasoline distillate polymer resin. 2,427,532; Sept. 16.
- Miskelly, Raymond E., and R. L. Drew, Plymouth, assignors to Plymouth Cordage Company, North Plymouth, Mass. Stiff structural sheet. 2,429,235; Oct. 21.
- Miskunas, Anton F., Chicago, Ill. Dental crown cap press. 2,423,041; June 24.
- Missbach, Edmund C., Oakland, Calif., assignor to Stauffer Chemical Company. Treatment of insoluble sulphur. 2,419,324; Apr. 22.
- Mistretta, Vincent F.: *See—*  
 Schneider, Helmuth G., and Mistretta.
- Mitby, Lloyd G., and J. R. Ranstorf, Minneapolis, Minn., assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 2,414,757; Jan. 21.
- Mitchel-Tyler Company, The, assignee: *See—*  
 Porter, Harold M.
- Mitchell, Donald C.: *See—*  
 Mitchell, Thomas A. and D. C.
- Mitchell, Donald H., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Translating circuit and apparatus for portable electrical devices. 2,420,609; May 13.
- Mitchell, Donald H., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Apparatus for supporting portable radio sets. 2,421,516; June 3.
- Mitchell, Donald H., assignor to Galvin Manufacturing Corporation, Chicago, Ill. Rotary turret selector. 2,423,152; July 1.
- Mitchell, Doren, Bound Brook, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Synchronizing system. 2,418,134; Apr. 1.
- Mitchell, George H., New York, N. Y. Tire press. 2,416,195; Feb. 18.
- Mitchell, Glenn C., Aurora, Ill. Hair cutting appliance. 2,431,270; Nov. 18.
- Mitchell, Irvin R., assignor to A. Leschen & Sons Rope Company, St. Louis, Mo. Sling and making same. 2,430,071; Nov. 4.
- Mitchell, Irving L., Rockville Centre, N. Y. Paper weight. 2,427,870; Sept. 23.
- Mitchell, James A., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Heat sealing moistureproofing coatings. 2,430,726; Nov. 11.
- Mitchell, John, and G. A. Webb, assignors, by mesne assignments, to Koppers Company, Incorporated, Pittsburgh, Pa. Refining of phenothiazine. 2,415,363; Feb. 4.
- Mitchell, John, W. H. Hill, and H. A. Gollmar, Pittsburgh, Pa., assignors, by mesne assignments, to Koppers Company, Inc. Hydrogen cyanide recovery. 2,419,225; Apr. 22.
- Mitchell, John C. E., Montreal, Quebec, and W. B. Morrison, Verdun, Quebec, Canada, assignors, by mesne assignments, to Radio Corporation of America, New York, N. Y. Two-way radio communication system. 2,433,290; Dec. 23.
- Mitchell, John G.: *See—*  
 Haney, Clifford I., and Mitchell.
- Mitchell, Leonard W., Seattle, Wash. Bearing clip for offset printing rollers. 2,431,069; Nov. 18.
- Mitchell, Paul J., Jr.: *See—*  
 Laughlin, Edwin R., Ayres, and Mitchell.  
 Smith, Joseph E., and Mitchell.
- Mitchell, Percival H., Toronto, Ontario, Canada. Reflector for lighting. 2,414,657; Jan. 21.
- Mitchell, Percival H., and S. Malcolm, Toronto, Ontario, Canada. Furnace for the production of carbon black. 2,417,606; Mar. 18.
- Mitchell, Robert, Detroit, Mich. Threaded fastener. 2,429,103; Oct. 14.
- Mitchell, Rollie H., Huntington Park, assignor to Killefer Manufacturing Corporation, Los Angeles, Calif. Offset disk harrow. 2,433,816; Dec. 30.
- Mitchell, Thomas A. and D. C., Torrance, Calif., assignors to American Manganese Corporation, Dover, Del. Electrolytic process for preparing manganese and manganese dioxide simultaneously. 2,417,259; Mar. 11.
- Mitchell, W. K., & Company, Inc., assignee: *See—*  
 Bissout, Herbert A., and Borresen.
- Mitchell, Wallace F., Chicago, Ill., assignor to Ammco Tools, Inc. Boring machine. 2,416,402; Feb. 25.
- Mitchell, Walter G., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Plastic handle securing means for drills. 2,430,527; Nov. 11.
- Mitchell, William J., assignor to All American Aviation, Inc., Wilmington, Del. Arm for air pick-up systems. 2,433,473; Dec. 30.
- Mithoff, Robert C.: *See—*  
 Danner, Philip S., and Mithoff.
- Mittag, Albert H.: *See—*  
 Alexanderson, Ernst F. W., and Mittag.
- Mittermaier, Armin F., Fort Wayne, Ind., assignor to General Electric Company. Powdered iron magnetic core. 2,419,847; Apr. 29.



- Miville, Maurice E.: *See*—  
Seymour, George W., Salvin, and Miville.
- Mize, George G.: *See*—  
Focke, Arthur E., and Mize.
- Mleczek, Estelle, Chicago, Ill. Collar fastener. 2,425,949; Aug. 19.
- Moak, Eugene H., assignor to Moak Machine and Tool Co., Port Huron, Mich. Multiple spindle mechanism. 2,421,461; June 3.
- Moak Machine and Tool Co., assignee: *See*—  
Moak, Eugene H.
- Moats, William E., Overbrook Hills, Pa. Inhalator. 2,431,649; Nov. 25.
- Moberg, Ivar O., Lowell, Mass. Electrically heated two-ply blanket. 2,432,785; Dec. 16.
- Moberly, Lawrence E., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Dynamoelectric apparatus. 2,414,543; Jan. 21.
- Moberly, Lawrence E., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Impregnating carbon brushes. 2,418,420; Apr. 1.
- Mobile Refrigeration, Inc., assignee: *See*—  
Lodwig, Erwin.
- Mobley, Alonzo L., Houston, Tex. Flame damper and muffler. 2,420,789; May 20.
- Mobley, William R., Miami, Fla. Air circulating and conditioning device. 2,417,010; Mar. 4.
- Mochan, George, New York, N. Y. Foldable baby carriage. 2,421,388; June 3.
- Mochel, Paul J., Los Angeles, Calif., assignor to Chrysler Corporation, Highland Park, Mich. Fairlead. 2,414,658; Jan. 21.
- Mochel, Walter E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Copolymers of fluoro-1,3-butadiene and an alkenylethynyl carbinol. 2,426,560; Aug. 26.
- Mochel, Walter E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Synthetic rubberlike materials comprising fluoroprene. 2,429,838; Oct. 28.
- Mock, Frank C., assignor to Bendix Aviation Corporation, South Bend, Ind. Fuel supply system with vapor separator and booster pump. 2,414,158; Jan. 14.
- Mock, Frank C., assignor to Bendix Aviation Corporation, South Bend, Ind. Charge forming device. 2,414,322; Jan. 14.
- Mock, Frank C., assignor to Bendix Products Corporation, South Bend, Ind. Charge forming device. 2,426,153; Aug. 19.
- Mock, Frank C., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Engine control. 2,426,740; Sept. 2.
- Mock, Frank C., assignor to Bendix Products Corporation, South Bend, Ind. Charge forming device. 2,426,741; Sept. 2.
- Mock, Frank C., assignor to Bendix Aviation Corporation, South Bend, Ind. Control for internal-combustion engines. 2,429,423; Oct. 21.
- Mock, Frank C., Montclair, assignor, by mesne assignments, to Eclipse Aviation Corporation, East Orange, N. J. Engine fuel control. 2,420,899; May 20.
- Modern Devices, Inc., assignee: *See*—  
Sax, Herman, and Fox.
- Modern Metals and Materials, assignee: *See*—  
Hood, Stanley R.
- Modern Plastic Machinery Corporation, assignee: *See*—  
Tornberg, Henning T.
- Modine, Arthur B., assignor to Modine Manufacturing Company, Racine, Wis. Radiator construction. 2,414,159; Jan. 14.
- Modine Manufacturing Company, assignee: *See*—  
Modine, Arthur B.
- Modrey, Henry J., London, England, assignor to Modrey Patents Corporation, Essex County, N. J. Electrical plug and socket spring contact or connector. 2,423,250; July 1.
- Modrey, Henry J., London, England, assignor to Modrey Patents Corporation, Essex County, N. J. Self-locking electrical plug and socket. 2,427,297; Sept. 9.
- Modrey Patents Corporation, assignee: *See*—  
Modrey, Henry J.
- Modugno, Francesco, Rome, Italy; vested in the Alien Property Custodian. Automatic control of the circulating pumps of condensers normally working with natural water circulation for propelling apparatus. 2,415,106; Feb. 4.
- Moe, Robert E., Bridgeport, Conn., assignor to General Electric Company. Cathode ray apparatus. 2,414,323; Jan. 14.
- Moe, Robert E., Bridgeport, Conn., assignor to General Electric Company. Locating equipment. 2,418,364; Apr. 1.
- Moe, William W., Stratford, Conn., assignor to General Electric Company. Pulse amplifier. 2,414,968; Jan. 28.
- Moeller, George L., assignor to Knapp-Monarch Co., St. Louis, Mo. Commutator structure. 2,421,845; June 10.
- Moeller, Morris A., Long Beach, Calif. Stonecutting clamp. 2,420,790; May 20.
- Moeller, Morris A., Long Beach, Calif. Pressure modulating device for stone saws. 2,421,349; May 27.
- Moen, Edwin, New York, N. Y. Self-closing container. 2,433,142; Dec. 23.
- Moerman, Carlos, Richmond, Calif. Pivoted dial calipers. 2,421,517; June 3.
- Moessinger, Albert, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland. Method and device for weaving on looms with gripper shuttles. 2,420,380; May 13.
- Moffett, Eugene W., Milwaukee, Wis., and R. E. Smith, New York, N. Y., assignors to Pittsburgh Plate Glass Company. Conjoint polymerization products. 2,424,838; July 29.
- Mohaupt, Henry H., Washington, D. C., assignor to Sage Societe Anonyme de Gestion et d'Exploitation de Brevets, Fribourg, Switzerland. Projectile. 2,419,414; Apr. 22.
- Mohawk Carpet Mills, Inc., assignee: *See*—  
Clairmont, Albert R.  
Shuttleworth, Howard L., Underwood, and Jones.  
Underwood, Garfield J., and Farrell.
- Mohler, William F., Hermosa Beach, Calif. Fluid pressure system. 2,427,616; Sept. 16.
- Mohn, Howard C., Hosiery Co., Inc., assignee, et al.: *See*—  
Killian, Ezekiel.
- Mohr, Albert, Jr., and J. P. Grilli, Chicago, Ill. Sealing means for revolving distributor for charging iron blast furnaces. 2,429,481; Oct. 21.
- Mohr, Charles B., and L. F. Krause, Syracuse, N. Y. Drape hanger. 2,433,527; Dec. 30.
- Mohrman, Harold W., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Recovering phenol from a phenol-resorcinol mixture. 2,433,143; Dec. 23.
- Moir, Harry L.: *See*—  
Yule, John S., and Moir.
- Moise, James E., Baton Rouge, La., assignor to Standard Oil Development Company. Treating hydrocarbon fluids. 2,420,900; May 20.
- Moist-R-Proof Container Co., assignee: *See*—  
Denton, Harvey R.
- Mojonnier Bros. Co., assignee: *See*—  
Radtke, William.
- Molded Insulation Company, assignee: *See*—  
Aichinger, Joseph F.
- Mole, John H., Eastcote, Ruislip, assignor to Siemens Brothers & Co., Limited, Westminster, London, England. Reducing impedance effects in grounded communication circuits. 2,419,907; Apr. 29.
- Mole-Richardson Co., assignee: *See*—  
Hankins, Maxey A.
- Moline, Carl R., Homewood, Ill., assignor to Allied Railway Equipment Company. Brake head retaining mechanism for brake beams. Re. 22,874; Apr. 29.
- Molins, Desmond W., Deptford, London, assignor to Molins Machine Company Limited, London, England. Rounds feeding device. 2,415,144; Feb. 4.
- Molins, Desmond W., assignor to Molins Machine Company Limited, London, England. Breech loading mechanism for ordnance. 2,431,954; Dec. 2.
- Molins, Desmond W., assignor to Molins Machine Company Limited, London, England. Feeding mechanism for automatic guns. 2,431,955; Dec. 2.
- Molins, Desmond W., and F. F. Ruau, Deptford, London, S. E. 8, assignors to Molins Machine Company, Limited, Deptford, London, England. Collecting mechanism for rod shaped articles. 2,418,365; Apr. 1.
- Molins, Desmond W., and F. F. Ruau, London, assignors to Molins Machine Company Limited, Deptford, London, England. Gun recoil-operated ammunition feeding mechanism. 2,418,656; Apr. 8.
- Molins Machine Company, Limited, assignee: *See*—  
Molins, Desmond W.  
Molins, Desmond W., and Ruau.  
Ruau, Felix F.
- Molique, Lawrence G.: *See*—  
Guyer, Jesse A., and Molique.
- Molique, Lawrence G., Bartlesville, Okla., assignor to Phillips Petroleum Company. Catalyst chamber insulation. 2,416,490; Feb. 25.
- Molique, Lawrence G., Bartlesville, Okla., assignor to Phillips Petroleum Company. Catalyst chamber apparatus. 2,416,491; Feb. 25.
- Molitor, Frederick R., South Nyack, N. Y. Reciprocating motion for bed presses. 2,430,644; Nov. 11.
- Molitor, William J., St. Louis, Mo. Garden hose holder. 2,425,893; Aug. 19.
- Molle, Otto H.: *See*—  
Evans, Albert M., Johnson, and Molle.
- Mollenhour, Delbert C., Mentone, Ind., assignor to F. I. Saemann, New York, N. Y. Artificial hand-hook type. 2,415,145; Feb. 4.
- Mollenhour, Delbert C., Mentone, Ind., assignor to Franklin I. Saemann, New York, N. Y. Artificial arm. 2,428,632; Oct. 7.
- Moller, Berniece, Oakland, Calif. Hand covering cuff for babies. 2,416,800; Mar. 4.
- Möller, Ragnar O. J., Finspong, Sweden. Radial flow turbine. 2,429,365; Oct. 21.
- Möller, Ragnar O. J., Finspong, Sweden. Double rotation elastic fluid turbine. 2,430,183; Nov. 4.
- Molloy, Richard C., Glastonbury, assignor to United Aircraft Corporation, East Hartford, Conn. Jet propulsion. 2,421,518; June 3.
- Molner, John L., and A. Campula, Cleveland, Ohio. Rotary tool. 2,413,989; Jan. 7.



- Moloney, Raymond T., assignee: *See*—  
May, Sam.
- Nicolaus, Frank G.
- Molyneux, Cecil P., Great Neck Estates, and V. D. Roosa, Aidsley, assignors to Queensboro Manufacturing Company, Long Island City, N. Y. Rotary relay and contacts therefor. 2,422,842; June 24.
- Molyneux, Lee B.: *See*—  
Guenther, Arthur E., and Molyneux.
- Molz, August W., and J. H. Parvin, Wichita, Kans. Grain and roughage cutter and grinder. 2,420,966; May 20.
- Monaco, George C., Douglaston Hills, N. Y. Guard for flush wall outlets. 2,415,602; Feb. 11.
- Monahan, Joseph, Pawtucket, R. I. Unit for gill-drawing frames. 2,431,412; Nov. 25.
- Monarch Tool & Machinery Co., assignee: *See*—  
Budreck, Frances, and Jelinek.
- Monarch Wine Company, Inc., assignee: *See*—  
Cohen, Monroe J.
- Moncher, Frank L., assignor to General Motors Corporation, Detroit, Mich. Weld analyzer. 2,430,237; Nov. 4.
- Moncrief, John L., Eatontown, N. J. Remote control circuits. 2,423,464; July 8.
- Moncrieff, Robert W., C. W. Sammons, and E. W. Wheatley, Spondon near Derby, England, assignors to Celanese Corporation of America. Production of polyamide compositions. 2,419,277; Apr. 22.
- Moncrieff, Robert W., and D. P. Young, Spondon, near Derby, assignors to British Celanese Limited, London, England. Manufacture of lactams. 2,423,200; July 1.
- Money-maker, Harry F., assignee: *See*—  
Crowe, John.
- Mong, Nicholas, assignor to The General Tire & Rubber Company, Akron, Ohio. Selvage trimmer. 2,428,430; Oct. 7.
- Monmouth Products Company, assignee: *See*—  
Kuenhold, Otto J., Sr.
- Monner, Ray J., Denver, Colo., assignor, by mesne assignments, to C. A. Sorensen, Lincoln, Nebr. Machine gun cooling means. 2,416,768; Mar. 4.
- Monnet, Georges, New York, N. Y. Improving the ejection of masses. 2,423,169; July 1.
- Monnia, Eugene F., Scranton, assignor to Selectronics, Inc., Carlisle, Pa. Adjustable swing bracket. 2,431,134; Nov. 18.
- Monnot, Edward L., assignor to The Weber Dental Manufacturing Company, Canton, Ohio. Instrument holder construction for dental units and the like. 2,420,901; May 20.
- Monolith Portland Midwest Company, assignee: *See*—  
Anderson, Frank J., and Williams.
- Monopower Corporation, The, assignee: *See*—  
Aspinwall, Robert B.
- Monowatt Electric Corporation, assignee: *See*—  
Benander, George B.
- Monrad, Robert T., Little Falls, N. Y., assignor of forty per cent to E. S. Magnus, Philadelphia, Pa. Navigation device. 2,420,673; May 20.
- Monroe, Benjamin C., Tuscola, Ill. Steam locomotive. 2,417,084; Mar. 11.
- Monroe, Benjamin C., Tuscola, Ill. Railway roadbed. 2,420,833; May 20.
- Monroe, Benjamin C., Tuscola, Ill. Demountable wheel. 2,424,487; July 22.
- Monroe Calculating Machine Company, assignee: *See*—  
Britten, Edwin F., Jr.  
Crosman, Loring P.
- Monroe, Charles Z., Detroit, Mich., assignor to Sealdsweet Sales Association, Tampa, Fla. Fruit-feeding mechanism for fruit juice machines. 2,433,619; Dec. 30.
- Monroe Paper Box Co. Inc., assignee: *See*—  
Greisman, Hyman.
- Monroe, Rollo O., and J. W. Hieronymus, assignors to The Johnson Corporation, Three Rivers, Mich. Valve construction. 2,422,796; June 24.
- Monroe, Thomas E., deceased, New York, assignor of one-half to W. R. Donaldson, Northport, N. Y., and one-fourth to W. R. Donaldson, as trustee; W. R. Donaldson, administrator. Sewing machine. 2,426,636; Sept. 2.
- Monsaert, Richard P., Sr., Paterson, N. J., assignor to United Merchants & Manufacturers, Inc., Wilmington, Del. Treating cloth. 2,433,620; Dec. 30.
- Monsanto Chemical Company, assignee: *See*—  
Barrett, Gerald R.  
Blake, Edward S., and Godfrey.  
Carswell, Thomas S.  
Cooper, Robert H.  
Debacher, Max O.  
Deebel, George F.  
Gittings, Lewis D.  
Glueskamp, Earl W., and Kosmin.  
Golick, Alexander J.  
Griffith, Henry E.  
Harman, Marion W.  
Harris, James O.  
Hayes, Ralph F.  
Hochwalt, Carroll A., and Thomas.  
Hunt, Richard H.  
Ingram, Joseph R.  
Jenkins, Russell L.  
Kaltreider, David S.  
Kennelly, Reginald G.
- Monsanto Chemical Company, assignee: *See*—Continued  
Kyrides, Lucas P.  
Kyrides, Lucas P., and Zienty.  
Kyrides, Lucas P., Zienty, and Stephenson.  
Lawshe, Walter D., and Gardiner.  
Magoun, George L.  
Mares, Joseph R.  
Marshall, Morris D.  
Mohrman, Harold W.  
Moose, Joe E.  
Mowry, David T.  
Nielsen, Morris L.  
Plumb, David S.  
Renoll, Mary W.  
Scott, Milton J.  
Seymour, Raymond B.  
Seymour, Raymond B., and Mowry.  
Steahly, George W.  
Thomas, Charles A.  
Webber, Charles S., Luce, and Murdock.  
Whitehead, George W.
- Monsarrat, Nicholas, Seekonk, Mass., assignor, by mesne assignments, to Pantex Manufacturing Corporation. Drying means for garment pressing machines. 2,424,623; July 29.
- Monsarrat, Nicholas, Seekonk, Mass., assignor, by mesne assignments, to Pantex Manufacturing Corporation. Resiliently mounted adjustable compensating means for garment pressing machines. 2,431,271; Nov. 18.
- Monson, Samuel L., Berkeley, Calif. Tap and drill gauge. 2,415,516; Feb. 11.
- Montague, H. E., & Company, assignee: *See*—  
Montague, Harry E.
- Montague, Harry E., deceased, Riverside, Conn.; I. H. Montague, executrix, assignor to I. H. Montague and R. V. Harry, co-partners doing business under the firm name of H. E. Montague & Company, New York, N. Y. Ventilated wood reinforced fiberboard container. 2,414,659; Jan. 21.
- Montague, Henrietta R., Hays, Kans. Name selector. 2,425,197; Aug. 5.
- Montague, Ida H., executrix, assignee, et al.: *See*—  
Montague, Harry E.
- Montamat, Raymond A., Scotch Plains, N. J., assignor to General Cable Corporation, New York, N. Y. Extrusion apparatus. 2,428,851; Oct. 14.
- Montani, Angelo, assignor of one-half to P. Tames, New York, N. Y. Optical projecting lens system. 2,428,122; Sept. 30.
- Montclair Research Corporation, assignee: *See*—  
MacKenzie, Charles A.  
Rust, John B.  
Rust, John B., and MacKenzie.
- Montemurro, Thomas J., assignee: *See*—  
Person, Emory L.
- Montgomery, Bruce E., Berwyn, assignor to United Airlines, Inc., Chicago, Ill. Antenna. 2,418,084; Mar. 25.
- Montgomery, Clarence G. L., Colorado Springs, Colo. Foldable-bottom collapsible egg case. 2,413,774; Jan. 7.
- Montgomery, Jesse S., and H. S. Kelly, Oklahoma City, Okla., assignors to Phillips Petroleum Company. Power tong. 2,429,424; Oct. 21.
- Montgomery, John A., Denver, Colo., assignor to Lakeside Engineering Corporation, Chicago, Ill. Settling tank. 2,418,950; Apr. 15.
- Montgomery, John P., Mount Carmel, and F. H. Pierson, Orange, assignors to The West Haven Buckle Company, West Haven, Conn. Cable hanger. 2,419,364; Apr. 22.
- Montgomery, Lawrence D.: *See*—  
Hickok, Robert D., and Montgomery.
- Montgomery, Noel H., Unionville, Mo. Generator attachment for tractors. 2,433,573; Dec. 30.
- Montgomery, Paul H.: *See*—  
Bivans, Elbert L., Beemer, and Montgomery.
- Montgomery, Terryl B., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Control system for furnace electrode feed. 2,427,617; Sept. 16.
- Montgomery Ward & Co., Incorporated, assignee: *See*—  
Heaton, Nathan C., and Sarnecki.  
Johnson, Everett C.  
Muerle, Richard W.
- Montgomery, William A., assignor to Standard Telephones and Cables Limited, London, England. Ultra high frequency mixer circuit. 2,433,886; Dec. 30.
- Montgomery, William T. S., Jacksonville, Fla. Still with vertically movable heater. 2,431,820; Dec. 2.
- Monti, Albert, Medford, Mass. Rubber heel. 2,418,896; Apr. 15.
- Montrose, Louis, Brooklyn, N. Y. Fluid transmission apparatus. 2,426,321; Aug. 26.
- Moody, Frank B., Pennsville, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dyeing articles composed of acrylonitrile polymers. 2,431,956; Dec. 2.
- Moody, John L., Oakland, Calif., assignor to Friden Calculating Machine Co., Inc. Centrifugal operated switch. 2,421,213; May 27.
- Moody, Robert J., and J. E. Taylor, Franklin, assignors to Scott & Williams, Incorporated, Laconia, N. H. Machine for marking circular knit hosiery for boarding. 2,421,638; June 3.



- Moon, John M., Evanston, assignor to Signode Steel Strapping Company, Chicago, Ill. Transportation of merchandise. 2,414,160; Jan. 14.
- Moon, Sterling C., Worthington, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Motorized wheel. 2,430,528; Nov. 11.
- Moon, William F., Grand Rapids, Mich. Stretching machine. 2,415,185; Feb. 4.
- Mooney, Melvin, Lake Hiawatha, N. J., assignor to United States Rubber Company, New York, N. Y. Apparatus for measuring surface roughness. 2,417,988; Mar. 25.
- Mooradian, George, Los Angeles, Calif. Universal cut-off saw. 2,422,843; June 24.
- Moore, Andrew J., Washington, D. C., assignor to Engineering and Research Corporation, Riverdale, Md. Device for upsetting metal. 2,428,173; Sept. 30.
- Moore, Andrew J., Washington, D. C., assignor to Engineering and Research Corporation, Riverdale, Md. Device for upsetting metal. 2,428,675; Oct. 7.
- Moore Business Forms, Inc., assignee: *See*—Mabon, Carl R.
- Moore, Charles V., Austin, Tex. Burner nozzle and control means. 2,414,544; Jan. 21.
- Moore, Coleman B., Carroll Park, assignor to Moore Products Co., Philadelphia, Pa. Pneumatic control apparatus. 2,431,297; Nov. 18.
- Moore, David P., Forest Hills, N. Y., assignor to Premium Merchandising Corporation. Fountain pen. 2,425,198; Aug. 5.
- Moore, David W., Jr., New York, N. Y., assignor to Fairchild Camera and Instrument Corporation. Electrical speed-responsive system with variable-ratio drive. 2,432,327; Dec. 9.
- Moore Drop Forging Company, assignee: *See*—Rearden, John J.
- Moore, Edmond E.: *See*—Moore, Majorie B. and E. E.
- Moore, Elbert R., Los Angeles, Calif. Nursing bottle holder. 2,415,186; Feb. 4.
- Moore, Elijah F., Laurinburg, N. C. Combined cap and shield. 2,424,624; July 29.
- Moore Fabric Company, assignee: *See*—Moore, John V.
- Moore, George A., New York, N. Y. Container. 2,425,043; Aug. 5.
- Moore, George A., deceased, Medford, Mass.; G. A., Jr., H. and L. Moore, executors. Insert for molded plastic objects. 2,428,676; Oct. 7.
- Moore, George A., Jr., executor, et al.: *See*—Moore, George A.
- Moore, George B., and R. E. Smith, assignors to Manning, Maxwell & Moore, Inc., Muskegon, Mich. Chain hoist. 2,426,112; Aug. 19.
- Moore, George S., Woodhaven, and J. T. Scheb, Brooklyn, N. Y., assignors to Commercial Controls Corporation. Tape chute for mail treating machines. 2,415,562; Feb. 11.
- Moore, Harrington, executor, et al.: *See*—Moore, George A.
- Moore, Harry H., Washington, D. C. Combustion device. 2,417,835; Mar. 25.
- Moore, Harvey: *See*—Moore, Jerry L. and H.
- Moore, Henry G., Redondo Beach, assignor to The Garrett Corporation, Aircsearch Manufacturing Company division, Los Angeles, Calif. Replacing tubes in heat exchangers. 2,429,888; Oct. 28.
- Moore, James A., Oceanside, Calif. Fountain pen. 2,416,112; Feb. 18.
- Moore, James B., Chicago, and R. R. Trexler, Evanston, Ill. Liquid dispensing apparatus. 2,415,835; Feb. 18.
- Moore, James H., Akron, Ohio. Work support. 2,423,201; July 1.
- Moore, James R., Rumson, N. J., assignor to the United States of America, as represented by the Secretary of War. Resistance network. 2,423,463; July 8.
- Moore, Jerry L., and H. Quitman, Tex. Gauge line cleaning device. 2,424,046; July 15.
- Moore, Joe Hiram, Hobbs, N. Mex., assignor to Shell Development Company, San Francisco, Calif. Well flow control. 2,423,944; July 15.
- Moore, John H., Springfield, Pa., assignor to The Baldwin Locomotive Works. Dynamometer. 2,414,161; Jan. 14.
- Moore, John P., and M. B. Dunlap, Clearwater, Fla. Machine for producing shingle anchor nails and the like. 2,421,573; June 3.
- Moore, John V., assignor to Moore Fabric Company, Pawtucket, R. I. Elastic tape. 2,418,187; Apr. 1.
- Moore, John V., assignor to Moore Fabric Company, Pawtucket, R. I. Production of narrow curvilinear non-elastic tape. 2,424,411; July 22.
- Moore, Lawrence, executor, et al.: *See*—Moore, George A.
- Moore, Lawrence A., assignor to American Coating Mills, Inc., Elkhart, Ind. Sheet cutting and delivery means. 2,427,223; Sept. 9.
- Moore, Lee C., & Company, Inc., assignee: *See*—Woolslayer, Homer J., Campbell, and Jenkins.
- Moore, Lee C., Corporation, assignee: *See*—Woolslayer, Homer J., Campbell, and Jenkins.
- Moore, Maher, Los Angeles, Calif. Cam operated vise. 2,415,303; Feb. 4.
- Moore, Majorie B. and E. E., Waukegan, Ill., assignors to Abbott Laboratories. 2-carbalkoxy alkyl-3-oxo-4-carbalkoxy tetrahydrothiophene. 2,424,007; July 15.
- Moore, Marlin C., Xenia, and H. Bridgman, Springfield, Ohio. Vertical gyro erection controller. 2,420,674; May 20.
- Moore, Matthew S., Malvern, assignor of one-half to The Mining Engineering Company Limited, Worcester, England. Mining machine. 2,422,645; June 17.
- Moore, Maurice L., Detroit, Mich., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa. Sulfanilyl-sulfanilamide. 2,422,170; June 10.
- Moore, Maurice L., Detroit, Mich., and T. M. Immediata, Wilmington, Del., assignors to Sharp & Dohme, Incorporated, Philadelphia, Pa. N<sup>3</sup>-carboxyacetyl-metanilamides. 2,423,108; July 1.
- Moore, Norman Y.: *See*—Griffin, Roger L., and Moore.
- Moore, Paul C., Jr., assignor to Maryland Paper Products Company, Inc., Baltimore, Md. Resilient holding straw packaging machines. 2,424,183; July 15.
- Moore Pen Company, The, assignee: *See*—Lovejoy, Charles K.
- Moore, Philemon J., assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring element. 2,415,187; Feb. 4.
- Moore Products Co., assignee: *See*—Moore, Coleman B.
- Moore, Ralph G. D., Dedham, and J. K. Sanford, Wellesley, Mass., assignors to United States Rubber Company, New York, N. Y. Manufacture of sulfenamides. 2,417,989; Mar. 25.
- Moore, Ralston T.: *See*—Hoberg, Edgar A., and Moore.
- Moore, Raymond W.: *See*—Harding, William R., Kimball, and Moore.
- Moore, Robert C., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Turnstile antenna. 2,420,967; May 20.
- Moore, Robert C., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Synchronizing system. 2,431,577; Nov. 25.
- Moore, Samuel A., Mariemont, and T. Greenfield, Cincinnati, Ohio, assignors to Interchemical Corporation, New York, N. Y. Bituminous adhesive. 2,418,135; Apr. 1.
- Moore, Samuel J.: *See*—Miller, Harold F., and Moore.
- Moore, Sidney A., assignor to The Prime Manufacturing Company, Milwaukee, Wis. Wire take-up reel. 2,416,708; Mar. 4.
- Moore, Sidney A., Phoenix, Ariz., assignor to The Prime Manufacturing Company, Milwaukee, Wis. Electric fence indicator. 2,429,764; Oct. 28.
- Moore, Stanley S., Stockton, Calif. Power control unit. 2,429,366; Oct. 21.
- Moore, Walter G., Liverpool, England. Quick release hook. 2,422,363; June 17.
- Moore, Willard H., Santa Rosa, Calif. Aircraft wing flap assembly. 2,418,273; Apr. 1.
- Moore, William C., Chicago, Ill., assignor to Motorola, Inc. Coupling transformer for radio-frequency selectors. 2,430,990; Nov. 18.
- Moore, William E., assignor to Delaware Engineering Corporation, Pittsburgh, Pa. Furnace roof construction. 2,414,545; Jan. 21.
- Moore, William E., assignor to Delaware Engineering Corporation, Pittsburgh, Pa. Furnace electrode regulator. 2,422,362; June 17.
- Moore, William V., Chicago, Ill. Pastry decorator. 2,419,654; Apr. 29.
- Moore, Willis F., assignor to Bryant Chucking Grinder Company, Springfield, Vt. Gage to test the perpendicularity of the face of a workpiece to its axis. 2,427,152; Sept. 9.
- Moorefield, Ned W., Hollywood, Calif. Holder for towels and the like. 2,430,238; Nov. 4.
- Moorehead Manufacturing Company, assignee: *See*—Palmer, Edwin, and Schwartz.
- Moorehouse, Eugene M., Tujunga, Calif., assignor to Adel Precision Products Corp. Supporting clip. Re. 22,846; Feb. 25.
- Moore, Charles F., Philadelphia, Pa., assignor, by mesne assignments, to Freshmaster Corporation, Newark, N. J. Refrigerated display case having top access compartments. 2,428,717; Oct. 7.
- Moorehouse, John H., Rochester, N. Y. Panic lock. 2,426,041; Aug. 19.
- Moorman, Charles L., Millington, Ill., assignor to Union Asbestos & Rubber Company. End ice bunker car. 2,429,274; Oct. 21.
- Moorman, Charles L., Millington, assignor to Union Asbestos & Rubber Company, Chicago, Ill. Fan. 2,431,413; Nov. 25.
- Moorman, Charles L., Millington, and R. M. Burnett, assignors to Union Asbestos & Rubber Co., Chicago, Ill. Power take-off device for railway cars. 2,417,561; Mar. 18.
- Moose, Joe E., St. Louis, Mo., assignor to Monsanto Chemical Company. Producing agglomerated water treating compositions. 2,414,969; Jan. 28.
- Moots, Clark, and R. C. Hooker, assignors to Battenfeld Grease & Oil Corp., Kansas City, Mo. Extruding applicator for calking compound cartridges. 2,421,711; June 3.
- Mora, Grato, Barnes, London, assignor to Omes Limited, London, England. Manufacture of leaf springs. 2,430,529; Nov. 11.



- Moran, Edward J., Chicago, Ill. Cleansing composition. 2,428,317; Sept. 30.
- Moran, Harry H., Bayside, N. Y. Mandrel. 2,414,268; Jan. 14.
- Moran, James P., Washington, D. C., and B. F. Slingluff, Cheverly, Md. Pipe joint. 2,429,765; Oct. 28.
- Moran, William G.: *See*—  
Borzin, John J., and Moran.
- Moreno, Patrick J., Newark, N. J., assignor to Even-Pul Foundation, Inc., New York, N. Y. Foundation garment. 2,429,941; Oct. 28.
- Morden, Charles W., Portland, Oreg. Composite building unit. 2,426,943; Sept. 2.
- More, Florencio S., assignee: *See*—  
Gonzalez, Alberto R.
- Morehouse, Eugene M., Tujunga, Calif., assignor to Adel Precision Products Corp. Clip for multiple conduit supports. 2,413,772; Jan. 7.
- Morehouse, Eugene M., Tujunga, Calif., assignor to Adel Precision Products Corp. Self-locking clip. 2,415,517; Feb. 11.
- Morehouse, Eugene M., Tujunga, Calif., assignor to Adel Precision Products Corp. Sectional support for conduits. 2,417,260; Mar. 11.
- Morehouse, Eugene M., Tujunga, Calif., assignor to Adel Precision Products Corp. Harness clip with safety lock. 2,417,261; Mar. 11.
- Morehouse, Eugene M., Tujunga, Calif., assignor to Adel Precision Products Corp. Sealing nut. 2,417,262; Mar. 11.
- Morehouse, Eugene M., Tujunga, Calif., assignor to Adel Precision Products Corp. Cushioned nut. 2,417,263; Mar. 11.
- Morehouse, Kenneth L., Los Angeles, Calif. Caddy cart. 2,415,392; Feb. 4.
- Moreillon, Albert E.: *See*—  
Hunt, Joseph A., and Moreillon.
- Morein, David, New York, N. Y. Welt shoe. 2,422,494; June 17.
- Moreland, Harry W., Jr., Portsmouth, Va., assignor of one-third to R. F. Smith and one-third to A. H. Stockmar, Douglasville, Ga. Marquee letter conveyor. 2,416,340; Feb. 25.
- Morell, Samuel A., Peoria, Ill., assignor to the Government of the United States as represented by the Secretary of Agriculture. Tertiary amino pentanols and esters thereof. 2,424,184; July 15.
- Morelle, Lionel D., Shrewsbury, Mass. Chain welding apparatus. 2,414,970; Jan. 28.
- Moreton, Henry H., Chicago, Ill. Display stand. 2,416,879; Mar. 4.
- Moreton, Stuart D., Allison Park, and Quinton Shaffer, Philadelphia, Pa., assignors to General Electric Company. Electromagnetic induction apparatus. 2,431,189; Nov. 18.
- Moretti, Henry, Cranston, R. I. Night light. 2,421,958; June 10.
- Morey, Francis C.: *See*—  
Bean, Howard S., and Morey.
- Morey, Glen H.: *See*—  
Matuszak, Maryan P., and Morey.
- Morey, Glen H., Terre Haute, Ind. Electrical heater and manufacturing it. 2,419,848; Apr. 29.
- Morey, Glen H., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Insecticidal compositions. 2,415,020; Jan. 28.
- Morey, Glen H., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Substituted 5-amino-1, 3-dioxanes. 2,415,021; Jan. 28.
- Morey, Glen H., assignor to Commercial Solvents Corporation, Terre Haute, Ind. 2-thiocyanomethyl-5-hydroxy-1,4-pyrone and method for preparing it. 2,422,740; June 24.
- Morey, Glen H., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Bisdiethylaminoalkanes as insecticides. 2,433,525; Dec. 30.
- Morey, Howard E., Aurora, Ill. Rabbit feeder. 2,421,214; May 27.
- Morey Machinery Co., Inc., assignee: *See*—  
Casella, Secondo L.  
Himoff, Morris G.
- Morey, William E., Huntington, W. Va., and R. G. Nichols, Weldon Spring, Mo., assignors to American Car and Foundry Company, New York, N. Y. Reclining seat control. 2,425,632; Aug. 12.
- Morf, Albert, Uster, Switzerland. Bobbin and weft carrier for textile machines. 2,419,415; Apr. 22.
- Morford, Freddie: *See*—  
Rivard, Wilfred E., and Morford.
- Morgan Construction Company, assignee: *See*—  
Murray, Edmund S.  
O'Malley, Joseph M.  
Shepherdson, John W.
- Morgan Crucible Company, Limited, assignee: *See*—  
Lyddon, Percy E.
- Morgan, Edward M., Westmount, Quebec, Canada. Egg beating device. 2,424,703; July 29.
- Morgan, Elmer P., Los Angeles, Calif. Journal bearing extractor. 2,429,327; Oct. 21.
- Morgan, Everett K.: *See*—  
Krant, Hans B., Gallimore, and Morgan.
- Morgan, George B.: *See*—  
Fareso, John.
- Morgan, Harry C.: *See*—  
Curtis, Russell R., and Morgan.
- Morgan, Jack F., Phillipsburg, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Diazotype print with hydroxy pyridone couplers. 2,431,190; Nov. 18.
- Morgan, John D., South Orange, N. J., assignor to Cities Service Oil Company, New York, N. Y. Protective coatings for metals. 2,430,846; Nov. 11.
- Morgan, John D., South Orange, and R. E. Lowe, East Orange, N. J., assignors to Cities Service Oil Company, New York, N. Y. Timepiece lubricant. 2,423,844; July 15.
- Morgan, John D., South Orange, and R. E. Lowe, East Orange, N. J., assignors to Cities Service Oil Company, New York, N. Y. Low viscosity change fluid. 2,426,407; Aug. 26.
- Morgan, John D., South Orange, and R. E. Lowe, East Orange, N. J., assignors to Cities Service Oil Company, New York, N. Y. Soda base grease. 2,428,123; Sept. 30.
- Morgan, John D., South Orange, and P. B. Levitt, Millburn, N. J., assignors to Cities Service Oil Company, New York, N. Y. Diesel engine testing apparatus. 2,432,168; Dec. 9.
- Morgan, John D., South Orange, and P. B. Levitt, Millburn, N. J., assignors to Cities Service Oil Company, New York, N. Y. Electric immersion heater. 2,432,169; Dec. 9.
- Morgan, John T., Charleston, W. Va. Making insulated multiconductor structures. 2,425,294; Aug. 12.
- Morgan, Leslie B.: *See*—  
McGill, John H., and Morgan.
- Morgan, Marshall M., Tyler, Tex. Flange jack. 2,420,438; May 13.
- Morgan, Merton W., assignee, et al.: *See*—  
Ricketts, Lawrence M.
- Morgan, Paul W., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing polymeric materials containing sulfur. 2,418,942; Apr. 15.
- Morgan, Russell L.: *See*—  
Dixon, James K., and Morgan.
- Morgan, Willard L.: *See*—  
Colbert, William H., and Morgan.
- Morgan, Willard L., Columbus, Ohio, assignor to American-Maize Products Company. Producing aldehyde-prolamine reaction products. 2,427,503; Sept. 16.
- Morgan, Willard L., Columbus, Ohio, assignor to American-Maize Products Company. Producing aldehyde-prolamine reaction products. 2,427,504; Sept. 16.
- Morgen, Sigurd P., assignor to The American Hardware Corporation, New Britain, Conn. Doorknob. 2,430,727; Nov. 11.
- Morgenstern, Alfred, Rottenburg-on-the-Neckar, Germany; vested in the Attorney General of the United States. Needle bed for use in knitting machines. 2,416,938; Mar. 4.
- Morgenstern, David M., Cleveland, Ohio. Headlight adapter. 2,423,153; July 1.
- Morin, George G., South Hadley Falls, Mass. Creeping mechanism for power shovels. 2,418,897; Apr. 15.
- Morin, Louis H., assignor of one-half to D. Marinsky, Bronx, N. Y. Pull apart separable fastener. 2,423,202; July 1.
- Morin, Louis H., assignor of one-half to D. Marinsky, Bronx, N. Y. Forming castings on disposable cores. 2,424,047; July 15.
- Morin, Louis H., New York, N. Y., assignor to Industrial Tape Corporation. Adhesive tape dispenser. 2,424,488; July 22.
- Morin, Louis H., assignor of one-half to D. Marinsky, Bronx, N. Y. Apparatus for producing varied spaced castings on a mounting. 2,425,552; Aug. 12.
- Morin, Louis H., Bronx, assignor of one-half to D. Marinsky, New York, N. Y. Forming undercut die castings. 2,426,408; Aug. 26.
- Morin, Louis H., assignor of one-half to D. Marinsky, Bronx, N. Y. Casting and trimming plastic castings. 2,428,174; Sept. 30.
- Morin, Louis H., assignor of one-half to D. Marinsky, Bronx, N. Y. Automatically ejecting castings. 2,431,414; Nov. 25.
- Morin, Pierre, Rang St-Patrice, St-Lambert, Quebec, Canada. Expandable wheel. 2,433,474; Dec. 30.
- Morin, Richard D.: *See*—  
Bearse, Arthur E., and Morin.
- Moritz, Adrian J. L., assignor to American Enka Corporation, Enka, N. C. Apparatus for covering rayon packages. 2,418,657; Apr. 8.
- Moritz, Adrian J. L., assignor to American Enka Corporation, Enka, N. C. Thread advancing reel. 2,424,489; July 22.
- Mork, George W., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Dipper tooth. 2,433,001; Dec. 23.
- Morkoski, James: *See*—  
Orelind, John R., and Morkoski.
- Morkoski, James, Canton, Ill., assignor to International Harvester Company. Gauge wheel and coupler assembly. 2,420,551; May 13.
- Morkoski, James, Canton, Ill., assignor to International Harvester Company. Agricultural implement. 2,424,185; July 15.
- Morley, Charles E., and H. S. Davis, Detroit, Mich. Adjustable temple construction for goggles. 2,427,469; Sept. 16.



- Morley, Earle V., Oakland, Calif. Plain bearing lubricator. 2,418,313; Apr. 1.
- Morley, Earle V., Oakland, Calif. Plain bearing lubricator. 2,422,741; June 24.
- Morpeth, Anthony, Muskegon, Mich., assignor to Stewart Hartshorn Company, New York, N. Y. Shade roller. 2,427,298; Sept. 9.
- Morreall, Herbert W., Jr.: *See*—  
Duerr, Herman H., Morreall, and Harsh.
- Morrell, Charles E.: *See*—  
Slotterbeck, Ober C., and Morrell.
- Morrell, Charles E., Westfield, and M. W. Swaney, Cranford, N. J., assignors to Jasco, Incorporated. Extraction of diolefins. 2,429,134; Oct. 14.
- Morrill, Ferdinand G., New York, N. Y. Underwater kite. 2,414,480; Jan. 21.
- Morrill, Vaughan, Jr., assignor to American Stove Company, St. Louis, Mo. Phenol esters of silicon oxychlorides and producing them. 2,416,531; Feb. 25.
- Morrill, Wayne J., Fort Wayne, Ind. Dynamoelectric machine rotor assembly. 2,418,980; Apr. 15.
- Morrill, Wayne J., Fort Wayne, Ind. Permanent magnet rotor. 2,432,436; Dec. 9.
- Morrill, Wayne J., Fort Wayne, Ind., assignor to General Electric Company. Driving mechanism. 2,420,552; May 13.
- Morrill, Wayne J., Fort Wayne, Ind., assignor to General Electric Company. Torque limiting driving mechanism. 2,420,553; May 13.
- Morris, Alexander B., San Antonio, Tex. Method and apparatus for cleaning or grading sand or the like. 2,426,839; Sept. 2.
- Morris, Bruce, Calgary, Alberta, Canada. Lubricating oil reclaimer. 2,428,939; Oct. 14.
- Morris, Charles L.: *See*—  
Kraus, Charles A., Lehmann, Morris, and Witschonke.
- Morris, Charles L., Stratford, assignor to United Aircraft Corporation, East Hartford, Conn. Nut lock. 2,419,849; Apr. 29.
- Morris, Charles O., Van Nuys, assignor to The Garrett Corporation, Aircsearch Manufacturing Company division, Los Angeles, Calif. Pipe joint. 2,433,289; Dec. 23.
- Morris, Charles W., Marblehead, Mass., assignor to General Electric Company. Aircraft cabin supercharger arrangement. 2,424,491; July 22.
- Morris, Edward D., Chicago, Ill., assignor to The Linde Air Products Company. Repetitive-blanketed electric fusion welding with high-frequency starting. 2,423,515; July 8.
- Morris, Elmer C., Chicago, Ill. Cleaning device and adaptor means therefor. 2,428,919; Oct. 14.
- Morris, Franklin C.: *See*—  
Nash, James H., and Morris.
- Morris, Harold B., Somerset Center, Mass. Wheeled sounding toy. 2,428,124; Sept. 30.
- Morris, Harry A., assignor to C. V. Hill & Company, Inc., Trenton, N. J. Refrigerated display case. 2,425,295; Aug. 12.
- Morris, Harry Associates, assignee: *See*—  
Kuckl, John.
- Morris, Harry W., Chicago, Ill. Proportional liquid reagent feeding device actuated by fluid in a conduct. 2,417,372; Mar. 11.
- Morris, John, Constantine, Mich. Puzzle. 2,432,031; Dec. 2.
- Morris, John K.: *See*—  
Thompson, Roy E., and Morris.
- Morris, John K., Los Angeles, Calif. Buffer for longitudinally driven members. 2,424,492; July 22.
- Morris, John R., Beacon, assignor to The Texas Company, New York, N. Y. Lubricant. 2,417,562; Mar. 18.
- Morris, Maurice E., Oakland, Calif. Paper feeder. 2,423,563; July 8.
- Morris, Nathan, assignor to American Instrument Company, Silver Spring, Md. Thermostatic regulator. 2,424,250; July 22.
- Morris Paper Mills, assignee: *See*—  
Lebold, Samuel N.
- Morris, Rupert C.: *See*—  
Evans, Theodore W., Morris, and Shokal.
- Morris, Rupert C., Berkeley, and E. C. Shokal, Oakland, assignors to Shell Development Company, San Francisco, Calif. Unsaturated ethers of cyclic sulfones. 2,419,082; Apr. 15.
- Morris, Rupert C., and H. D. Finch, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Production of cyclic mono-sulfones. 2,420,834; May 20.
- Morris, Rupert C., and J. L. Van Winkle, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Producing polymers of branched chain hexadienes. 2,429,582; Oct. 21.
- Morris, Rupert C., Berkeley, and A. V. Snider, Richmond, assignors to Shell Development Company, San Francisco, Calif. Unsaturated 3-sulfolanylamines. 2,430,821; Nov. 11.
- Morris, Thomas A., Detroit, Mich. Injection type carburetor. 2,428,377; Oct. 7.
- Morris, Vlon N., Highland Park, assignor to Industrial Tape Corporation, North Brunswick, N. J. Pressure-sensitive adhesive tapes. 2,424,996; Aug. 5.
- Morris, William, New Haven, Conn. Universal drafting and measuring instrument. 2,423,786; July 8.
- Morris, William C., Darby, Pa., assignor to General Electric Company. Current responsive time delay relay. 2,432,328; Dec. 9.
- Morris, William N.: *See*—  
Nelson, William L., and Morris.
- Morrison, Alexander L.: *See*—  
Bergel, Franz, Cohen, Morrison, and Moss.
- Morrison, Charles A., assignor to Eastman Kodak Company, Rochester, N. Y. Stadiametric range finder. 2,423,718; July 8.
- Morrison, Charles C., Douglas Manor, assignor to F. N. Burt Company, Inc., Buffalo, N. Y. Cold cream jar. 2,413,726; Jan. 7.
- Morrison, Clara P., executrix: *See*—  
Bridwell, Frank F., and Morrison.
- Morrison, Dana E., Kenilworth, and P. F. Ziegler, Winnetka, assignors to The Kendall Company, Chicago, Ill. Bonded joint or section of elastic fabric. Re. 22,880; May 20.
- Morrison, Douglas E., U. S. Army, Trenton, Ga. Anti-aircraft data computer. 2,413,727; Jan. 7.
- Morrison, George O., and T. P. G. Shaw, Shawinigan Falls, assignors to Shawinigan Chemicals Limited, Montreal, Quebec, Canada. Heat sealing with partially hydrolyzed polyvinyl acetate. 2,424,110; July 15.
- Morrison, George W.: *See*—  
Bridwell, Frank F., and Morrison.
- Morrison, Harry: *See*—  
Saunders, Seymour G., and Morrison.
- Morrison, Howard, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Pure sinusoidal wave generator. 2,416,341; Feb. 25.
- Morrison, James, Honolulu, Hawaii. Drawing board and straightedge. 2,420,835 May 20.
- Morrison, James A., Rocky River, Ohio. Support device. 2,430,027; Nov. 4.
- Morrison, James, Brass Mfg. Co., Limited, The, assignee: *See*—  
Sandilands, James C.
- Morrison, James J., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Wire-armored cable splices. 2,429,889; Oct. 28.
- Morrison, James L. D.: *See*—  
Miller, Walter, and Morrison.
- Morrison, James S., Springfield, and F. J. Arciszewski, East Longmeadow, Mass. Lawn mower sharpener. 2,417,373; Mar. 11.
- Morrison, Montford, Upper Montclair, N. J. Motor device. 2,415,022; Jan. 28.
- Morrison, Montford, Upper Montclair, N. J. Photoelectric scanning device. 2,415,702; Feb. 11.
- Morrison, Montford, Upper Montclair, N. J. Aircraft range and direction finder. 2,420,439; May 13.
- Morrison, Montford, Upper Montclair, N. J. Signal transmission device. 2,425,950; Aug. 19.
- Morrison, Montford, Upper Montclair, N. J. Selective constant-speed induction motor. 2,427,920; Sept. 23.
- Morrison, Montford, Upper Montclair, N. J. Arc-welding converter. 2,429,273; Oct. 21.
- Morrison, Montford, Upper Montclair, N. J. Arc-welding converter. 2,429,289; Oct. 21.
- Morrison, William B.: *See*—  
Mitchell, John C. E., and Morrison.
- Morrison, William M.: *See*—  
Lindner, Karl A., Morrison, and Busche.
- Morrisette, Everett, assignee: *See*—  
Morrisette, Raymond E.
- Morrisette, Raymond E., assignor of one-half to E. T. Morrisette, Indian Orchard, Mass. Serrating tool. 2,419,189; Apr. 15.
- Morrissey, Edward A.: *See*—  
Schultz, George E., and Morrissey.
- Morrow, Charles T., Cambridge, Mass., assignor to the United States of America, as represented by the Executive Secretary of the Office of Scientific Research and Development. Speech transmitter for masks. 2,416,939; Mar. 4.
- Morrow, Clarence H., Shaker Heights, assignor to The Hotstream Heater Company, Cleveland, Ohio. Electric piston. 2,422,495; June 17.
- Morrow, Clarence H., Shaker Heights, assignor to The Hotstream Heater Company, Cleveland, Ohio. Control device for draft regulators. 2,422,496; June 17.
- Morrow, Emerson N., Gibsonia, Pa. Speed equalizing landing wheel. 2,421,156; May 27.
- Morrow, Harry M., Canton, Ohio, assignor to The Bowdill Company. Bit holder. 2,415,107; Feb. 4.
- Morse, Carson C., Miami, Fla. Air heater. 2,426,231; Aug. 26.
- Morse Chain Company, assignee: *See*—  
Howison, Robert J.
- Morse, David B.: *See*—  
Wesselhoff, Ernest E.
- Morse, Charles W., assignee: *See*—  
Lorenz, Vincent C.
- Morse, John F., Hudson, and H. L. Hosterman, Akron, Ohio; said Hosterman assignor to said Morse. Shutter and film-wind interlock. 2,418,594; Apr. 8.
- Morse, Louis R., New York, N. Y., assignor, by mesne assignments, to Reeves Hoffman Corporation, Carlisle, Pa. Quartz oscillator plateholder. 2,425,481; Aug. 12.
- Morse, Normand W., Chicago, Ill. Pressure booster for a lubricating system. 2,422,250; June 17.



- Morse, Normand W., Chicago, assignor, by mesne assignments, to Gray-Mills Corporation, Evanston, Ill. Coolant conditioning system. 2,425,703; Aug. 12.
- Morse, Robert D., Monroe, Mich. Variable-speed transmission. 2,431,494; Nov. 25.
- Morse, Rupert O., Hamilton, Ontario, Canada, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Apparatus for coating cathodes. 2,431,135; Nov. 18.
- Morse, Shirley P., East Haven, assignor to The A. C. Gilbert Company, New Haven, Conn. Appliance switch at attachment cord anchorage. 2,432,067; Dec. 2.
- Morse, Thomas M.: *See*—  
Petty, John M., and Morse.
- Morse, W. A., assignee: *See*—  
Shaw, Clyde M., and Putney.
- Morsegraph Inc., assignee: *See*—  
Hand, Leslie T.
- Mortag, Edward H., assignor to Koehring Company, Milwaukee, Wis. Wheel and axle unit. 2,424,578; July 29.
- Morten, Ann, Seattle, Wash. Hair drying and scalp treating article. 2,431,882; Dec. 2.
- Mortenson, Carl W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyvinyl alcohol insolubilized with chlorinated polymeric ethers. 2,416,880; Mar. 4.
- Mortenson, Everett N., Chicago, Ill., assignor to Industrial Patents Corporation. Solvent extraction of fatty materials. 2,416,196; Feb. 18.
- Morton, Charles K.: *See*—  
Collins, John E., and Morton.
- Morton, Charles R., Summit, N. J. Fire extinguishing device. 2,417,374; Mar. 11.
- Morton, Edmund R.: *See*—  
Holden, William H. T., and Morton.
- Morton, Edmund R., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Alternating current generator. 2,432,117; Dec. 9.
- Morton, Eldred O., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, West Pittsburgh, Pa. Electric range. 2,414,162; Jan. 14.
- Morton, Eldred O., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric range surface unit. 2,418,520; Apr. 8.
- Morton, Eldred O., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Steam iron. 2,432,205; Dec. 9.
- Morton, George A.: *See*—  
Rajchman, Jan A., and Morton.
- Morton, George A., and L. E. Flory, Princeton, N. J., assignors to Radio Corporation of America. Impulse measuring device. 2,418,521; Apr. 8.
- Morton, George A., and L. E. Flory, Princeton, N. J., assignors to Radio Corporation of America. Reading aid for the blind. 2,420,716; May 20.
- Morton, Harry E., assignor to B. F. Sturtevant Company, Boston, Mass. Spin vanes control device for cooling fans in aircraft engines. 2,424,839; July 29.
- Morton, Henry C., New Brunswick, N. J., assignor, by mesne assignments, to Ferodo Limited, Chapel-en-le-Frith, Derbyshire, England. Friction facing and producing it. 2,431,883; Dec. 2.
- Morton, James E., Harvey, Ill. Hydraulic brake mechanism. 2,416,638; Feb. 25.
- Morton, James E., Harvey, Ill. Fluid pressure motor. 2,416,940; Mar. 4.
- Morton, James E., Harvey, Ill. Rotary hydraulic pump. 2,427,224; Sept. 9.
- Morton, Naomi, New York, N. Y. Self-adjusting garter. 2,424,251; July 22.
- Morton, Stanley, Vancouver, and H. D. Davidson, West Vancouver, British Columbia, Canada. Trim saw assembly. 2,427,470; Sept. 16.
- Morton, Thomas H.: *See*—  
Cameron, Walter G., and Morton.
- Morton, William, and R. M. Murray, Jr., Seattle, Wash. Welding machine. 2,416,454; Feb. 25.
- Morton, William A., Mount Lebanon, assignor to The Amsler-Morton Company, Pittsburgh, Pa. Method and apparatus for heating steel. 2,430,477; Nov. 11.
- Morton, William A., and E. G. Smith, Mount Lebanon Township, Allegheny County, assignors to The Amsler-Morton Company, Pittsburgh, Pa. Recuperative soaking pit furnace. 2,414,888; Jan. 28.
- Morway, Arnold J., Clark Township, Union County, and J. C. Zimmer, Union, N. J., assignors to Standard Oil Development Company. Lubricant. 2,417,264; Mar. 11.
- Morway, Arnold J., Clark Township, Union County, and J. C. Zimmer, Union, N. J., assignors to Standard Oil Development Company. Lubricating composition. 2,420,902; May 20.
- Mosca, Edward A., Atlantic City, N. J. Pipe fitting. 2,425,817; Aug. 19.
- Moser, William R., London, England, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Rotary burner for vacuum tube manufacture. 2,428,032; Sept. 30.
- Mosebach, Karl J., Pittsburgh, Pa. Electrical connector. 2,419,152; Apr. 15.
- Moseley, Francis L.: *See*—  
Isbister, Eric J., and Moseley.
- Moseley, Francis L., Pelham, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Electric motor position control system. 2,414,384; Jan. 14.
- Moseley, Francis L., Chevy Chase, Md., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Radio controlled pilot system. 2,423,336; July 1.
- Moseley, Francis L., Osborne, Ohio, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Radio controlled pilot system. 2,423,337; July 1.
- Moseley, Francis L., Chevy Chase, Md., E. J. Isbister, Brooklyn, and H. B. Steinhauser, Jersey City, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Electric motor follow-up system. 2,424,569; July 29.
- Mosena, Roscoe L., G. H. Traylor, and R. L. Haislip, Maryville, and E. H. Hall, Alcoa, Tenn., assignors to Aluminum Company of America, Pittsburgh, Pa. Crust braking apparatus. 2,423,787; July 8.
- Moser, Charles E., Beacon, assignor to The Texas Company, New York, N. Y. Pretreatment of reactivated hydrocarbon cracking catalyst with normally gaseous olefins. 2,425,482; Aug. 12.
- Moser, Clarence R., Orrville, Ohio. Cleaning machine. 2,414,971; Jan. 28.
- Moser, Rudolph J., assignor to The National Cash Register Company, Dayton, Ohio. Locking device for accounting machines. 2,417,563; Mar. 18.
- Moses, Barney H., De Ridder, La. Veterinarian's instrument. 2,424,767; July 29.
- Mosher, Paul R., assignor to Hercules Powder Company, Wilmington, D. Cobalt resinate and method of producing. 2,431,191; Nov. 18.
- Moss, Albert R.: *See*—  
Bergel, Franz, Cohen, Morrison, and Moss.
- Moss, Herbert H.: *See*—  
Linden, Walter R., and Moss.
- Moss, John W., West Hampton, Va. Crutch tip and cushioning means therefor. 2,414,758; Jan. 21.
- Moss, Philip H.: *See*—  
Cook, Elmer W., and Moss.
- Moss, Sanford A., Jr.: *See*—  
Detwiler, George T., Kulp, Moss, and Merion.
- Mossbach, Henry, Seattle, Wash. Writing device. 2,428,378; Oct. 7.
- Mossberg, Frank, Attleboro, Mass. Yielding ratchet torque wrench. 2,427,153; Sept. 9.
- Mosser, Paul L., Perkase, Pa. Pusher attachment for tractors. 2,431,495; Nov. 25.
- Mosshart, Donald J., Ardmore, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Spreader stoker apparatus. 2,418,042; Mar. 25.
- Mosshart, Donald J., Ardmore, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Spreader stoker apparatus. 2,423,110; July 1.
- Mosshart, Donald J., Ardmore, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Stoker apparatus. 2,425,633; Aug. 12.
- Mosshart, Donald J., Ardmore, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Reciprocating stoker grate bar. 2,431,415; Nov. 25.
- Motigraph, assignee: *See*—  
Wienke, Emil J.
- Motor Parts Company, assignee: *See*—  
Litzenberg, David P.
- Motor Products Corporation, assignee: *See*—  
Kellogg, Homer G.
- Motor Wheel Corporation, assignee: *See*—  
Miller, John W.
- Miller, John W., and Fell.
- Motorola, Inc., assignee: *See*—  
Holthouse, Harry B.
- Moore, William C.
- Motsenbocker, James O., Jr., Phillips, Tex., assignor to Phillips Petroleum Company. Insulated pipe. 2,419,278; Apr. 22.
- Motsinger, Armand V., near Aberdeen, Md. Slide loop fastener. 2,431,703; Dec. 2.
- Mott, Carl W., LaGrange, Ill., assignor to International Harvester Company. Auxiliary electric power apparatus for tractors. 2,414,602; Jan. 21.
- Mott, Carl W., LaGrange, Ill., assignor to International Harvester Company. Selective valve mechanism for hydraulic motors. 2,419,908; Apr. 29.
- Mott, Carl W., LaGrange, Ill., assignor to International Harvester Company. Fluid pressure regulation and control apparatus. 2,420,554; May 13.
- Mott, Carl W., LaGrange, Ill., assignor to International Harvester Company. Quadrant lever control. 2,420,555; May 13.
- Mott, Carl W., LaGrange, Ill., assignor to International Harvester Company. Fluid pressure servomotor with follow-up device. 2,427,871; Sept. 23.
- Mott, Carl W., LaGrange, Ill., assignor to International Harvester Company. Latch-type connecting device. 2,430,728; Nov. 11.
- Mott, Chester, Evanston, and A. F. Chouinard, J. F. Dove, assignors to National Cylinder Gas Company, Chicago, Ill. Torch cutting machine. 2,417,511; Mar. 18.
- Mott, John H., Topeka, Kans. Ladder step. 2,432,206; Dec. 9.
- Mott Steel Products Company, assignee: *See*—  
Benner, Charles E.
- Mottern, Henry O., Hillside, N. J., assignor, by mesne assignments, to Standard Alcohol Company. Reconditioning of olefin hydration acid. 2,414,759; Jan. 21.
- Mottern, Henry O., Hillside, N. J., assignor to Standard Oil Development Company. Selective polymerization of monoolefins. 2,414,760; Jan. 21.



- Moudy, Robert T., Covington, Ind., assignor, by mesne assignments, of one-third to McEuglevan Heat Treating and Manufacturing Company, Inc., Danville, Ill. Material loader. 2,429,890; Oct. 28.
- Moul, Arthur F., Buffalo, N. Y. Temperature responsive device for use on grinders and method of grinding. 2,427,064; Sept. 9.
- Mould, Lyle H., Lady Grey, Cape of Good Hope, Union of South Africa. Self-adjusting stop means for the shoes of internal-expanding brakes. 2,421,802; June 10.
- Mouldings, Inc., assignee: *See*—  
Burleson, Howard A.
- Moulton, Albion, Philadelphia, Pa., assignor to Goodman Manufacturing Company, Chicago, Ill. Connecting means for shaker conveyor. 2,414,324; Jan. 14.
- Moulton, Harold R., assignor to American Optical Company, Southbridge, Mass. Reflection reducing coating having a gradually increasing index of refraction. 2,432,484; Dec. 9.
- Mounce, Whitman D., Houston, Tex., assignor to Standard Oil Development Company. Logging bore holes. 2,415,364; Feb. 4.
- Mount Hope Machinery Company, assignee: *See*—  
Robertson, John D.
- Mount, James G., Colwyn, Pa. Distributor for lime, fertilizers, and similar materials for gardening. 2,433,059; Dec. 23.
- Mountjoy, Garrard: *See*—  
Hulst, George D., Jr., and Schoenfeld, and Mountjoy.
- Mt. Vernon Farm Dairy, assignee: *See*—  
Blum, Albert J.
- Moutran, Felix: *See*—  
Watson, Frederick J., and Moutran.
- Mowry, David T.: *See*—  
Seymour, Raymond B., and Mowry.
- Mowry, David T., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Copolymer of vinyl aromatic hydrocarbons. 2,417,607; Mar. 18.
- Mowry, David T., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Electrical conductor. 2,417,608; Mar. 18.
- Moyer, Andrew J.: *See*—  
Coghill, Robert D., and Moyer.
- Moyer, Elmo E., Scotia, and D. Eldred, Schenectady, N. Y., assignors to General Electric Company. Electric valve control for dynamoelectric machines. 2,431,578; Nov. 25.
- Moyer, Howard R., Wilkesburg, Pa., and J. Senkewitz, Detroit, Mich., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Pulley. 2,416,197; Feb. 18.
- Moyer, Kern A., San Francisco, Calif. Wrist-watch band. 2,425,894; Aug. 19.
- Moyer, Malcolm B., Syracuse, N. Y. Trestle and bracket therefor. 2,424,939; July 29.
- Moyer, Peter: *See*—  
Remesch, John, Eyring, and Moyer.
- Moyer, Samuel P., Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Differential froth flotation of chalcopyrite-sphalerite ores. 2,430,778; Nov. 11.
- Moyer, Wendell W., assignor to A. E. Staley Manufacturing Company, Decatur, Ill. Growth promoting substances. 2,416,198; Feb. 18.
- Mozley, Robert F., Hempstead, and D. S. Pensly, deceased, Garden City, by M. P. Pensly, Garden City, N. Y., executrix, assignors to Sperry Gyroscope Company, Inc. Phase control apparatus. 2,427,366; Sept. 16.
- Mozolewski, Stefan G.: *See*—  
Gordon, Anthony, and Mozolewski.
- Muccillo, Vincent, Hamilton, Ohio. Sanitary cuff. 2,419,279; Apr. 22.
- Muckerheide, Victor J.: *See*—  
Myers, Latimer D., and Muckerheide.
- Mudd, Raymond D., Electric City, Wash. Variable pitch fluid drive. 2,415,365; Feb. 4.
- Muddiman, Earl R.: *See*—  
Grunke, Arnold C., and Muddiman.
- Mueller, Adolf G., Fairfield, Conn., assignor to General Electric Company. Lamp socket for discharge lamps. 2,427,225; Sept. 9.
- Mueller, Alexander V., assignor to The Deming Company, Salem, Ohio. Vacuum relief mechanism for pumps. 2,416,590; Feb. 25.
- Mueller, Alexander V., assignor to The Deming Company, Salem, Ohio. Pump. 2,420,556; May 13.
- Mueller, Alexander V., assignor to The Deming Company, Salem, Ohio. Impeller pump. 2,420,557; May 13.
- Mueller, Alfred: *See*—  
Crane, Charles R., II, and Mueller.
- Mueller, Arthur W., Newton, assignor to The Frick-Gallagher Manufacturing Co., Wellston, Ohio. Drawer unit for rotary storage bins. 2,429,290; Oct. 21.
- Mueller, Carl H.: *See*—  
Dorsey, Sherman H., Reisert, Fox, and Mueller.
- Mueller, Charles W., St. Louis, Mo., assignor to Lewis Invisible Stitch Machine Company. Blind-stitch machine. 2,416,941; Mar. 4.
- Mueller Co., assignee: *See*—  
Mueller, Frank H., and Smith.
- Mueller Electric Company, assignee: *See*—  
Mueller, Ralph S.
- Mueller, Emil G., Churchill Borough, assignor to The American Brake Company, Swissvale, Pa. Clasp brake rigging. 2,431,579; Nov. 25.
- Mueller, Erich O., Irwin, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Commutator. 2,426,042; Aug. 19.
- Mueller, Frank H., Hot Springs National Park, Ark., and J. J. Smith, assignors to Mueller Co., Decatur, Ill. Pipe-line stopper. 2,425,483; Aug. 12.
- Mueller, Fritz W. H., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Anti-static photographic film. 2,420,610; May 13.
- Mueller, Fritz W. H., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Anti-static photographic film. 2,420,611; May 13.
- Mueller, George E., Keyport, N. J., assignor to Bell Telephone Laboratories, Inc., New York, N. Y. Microwave directive antenna. 2,425,336; Aug. 12.
- Mueller, Herbert B., Los Angeles, Calif. Adjustable nose for hand trucks. 2,427,803; Sept. 23.
- Mueller, Herbert B., Los Angeles, Calif. Lever lock. 2,427,804; Sept. 23.
- Mueller, Homer L., assignor to The Cleveland Welding Company, Cleveland, Ohio. Fabricated wheel structure. 2,424,704; July 29.
- Mueller, John, North Bergen, N. J., assignor to Remington Rand Inc., Buffalo, N. Y. Cross totalizing mechanism for record controlled tabulators. 2,421,078; May 27.
- Mueller, John, North Bergen, N. J., assignor to Remington Rand Inc., Buffalo, N. Y. Paper feed mechanism. 2,426,944; Sept. 2.
- Mueller, Otto, Dearborn, Mich. Locking and ejecting device. 2,420,146; May 6.
- Mueller, Otto J.: *See*—  
Miller, Arthur J., and Mueller.
- Mueller, Ralph S., Shaker Heights, assignor to Mueller Electric Company, Cleveland, Ohio. Insulator for connecting clips. 2,416,113; Feb. 18.
- Mueller, Reinhold: *See*—  
Jackson, John G., and Mueller.
- Muench-Kreuzer Candle Co., Inc., assignee: *See*—  
Muench, Norbert C. H.
- Muench, Norbert C. H., assignor to Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y. Wick holder. 2,429,766; Oct. 28.
- Muerle, Richard W., Springfield, assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill. Making separator discharge pans. 2,427,299; Sept. 9.
- Mues, Otto: *See*—  
Holler, Hermann, and Mues.
- Muffy, Glenn, Springfield, Ohio. Aircraft engine and propeller unit. 2,419,787; Apr. 29.
- Muffy, Glenn, Springfield, Ohio. Motor-compressor unit lubrication. 2,423,719; July 8.
- Muffy, Glenn, Springfield, Ohio. Control method and arrangement for a two temperature refrigerator using a capillary expansion device. 2,425,634; Aug. 12.
- Muffy, Glenn, Springfield, Ohio. Thermally controlled mixing valve. 2,430,133; Nov. 4.
- Muggleton, Gerald D., Appleton, assignor, by mesne assignments, to Combined Locks Paper Co., Combined Locks, Wis. Method of and apparatus for applying pigment and other materials to paper. 2,426,043; Aug. 19.
- Muhlbach, Alfred, Los Angeles, Calif. Mounting for roller cutters. 2,427,226; Sept. 9.
- Muhlhauser, Frederick P., Rochester, N. Y., assignor, by mesne assignments, to Superba Cravats. Necktie. 2,416,839; Mar. 4.
- Muir, David J., Walker, Minn. Resinous composition. 2,413,842; Jan. 7.
- Muir, William P., Hampsted, assignor to Dominion Engineering Works Limited, Lachine, Quebec, Canada. Control apparatus for hydraulic machines. 2,420,052; May 6.
- Muir, William P., Toronto, and R. H. MacInnes, St. Catharines, Ontario, Canada; said MacInnes assignor to said Muir. Sand blender. 2,428,852; Oct. 14.
- Muise, John, Everett, Mass. Clamping device. 2,424,940; July 29.
- Mulder, Johannes G. W., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, as trustee, Hartford, Conn. Electric discharge device. 2,431,136; Nov. 18.
- Mulderick, John O., Monaca, Pa., assignor to S. G. Taylor Chain Company, Hammond, Ind. Cross chain for anti-skid tire chains. 2,420,717; May 20.
- Muldoon, William J.: *See*—  
Hyland, John J., and Muldoon.
- Mulholland, David E., Reading, Pa., G. Fast, Salisbury, Md., and K. S. Lawrence, West Reading, Pa. Lens surfacing machine. 2,418,086; Mar. 25.
- Mulholland, David E., Fort Myers, Fla., and K. S. Lawrence, West Reading; said D. E. Mulholland assignor to W. S. Mulholland, Reading, Pa. Surfacing machine. 2,418,085; Mar. 25.
- Mulholland, Walter S., assignee, et al.: *See*—  
Mulholland, David E., and Lawrence.
- Mull, Arthur B., Hollywood, Calif., assignor of one-half to Spotswood Specialty Co. Inc., Lexington, Ky. Toy airplane. 2,430,134; Nov. 4.
- Mull, Raymond A., St. Joseph Township, Barrien County, Mich. Surgical instrument. 2,420,004; May 6.
- Mullaney, Richard L., Avon, assignor to The Whitney Chain & Mfg. Co., Hartford, Conn. Clevis construction. 2,422,844; June 24.



- Mullard Radio Valve Company Limited, The, assignee: *See*—  
Richards, Claude L.
- Müllejans, Paul, Lindau, and F. Neugebauer, Munich-Allach, Germany; vested in the Attorney General of the United States. Starter for free piston motor compressors. 2,423,720; July 8.
- Mullen, Theodore E.: *See*—  
Powell, George M., 3rd., and Mullen.
- Mullen, Thomas W., Evansville, Ind. Bottle carrier. 2,417,774; Mar. 18.
- Mullen, Thomas W., Evansville, Ind. Bottle lifter and carrier. 2,417,775; Mar. 18.
- Muller, Bela, New York, N. Y. Distance caliper. 2,418,595; Apr. 8.
- Muller, Bela, New York, N. Y. Circular cloth-cutter. 2,418,596; Apr. 8.
- Muller, Carl W., Osborn, Ohio. Instrument landing system for airplanes. 2,427,686; Sept. 23.
- Muller, Frans G. D., La Porte, Tex. Swing joint. 2,420,053; May 6.
- Müller, Hans, Othmarsingen, assignor to Schweiz. Sprengstoff-Fabrik A.-G., Dättlikon, Switzerland. Pentaerythrit tetrinitrate explosive. 2,430,239; Nov. 4.
- Muller, Johan A.: *See*—  
Waldie, George A., and Muller.
- Muller, Johan A., Dayton, Ohio, assignor to H. P. M. Development Corporation. Control valve. 2,422,119; June 10.
- Muller, Johan A., Dayton, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Fluid operated control circuit for hydraulic systems. 2,432,170; Dec. 9.
- Muller, Johan A., and W. R. Tucker, Dayton, Ohio, assignors to The Hydraulic Development Corp., Inc., Wilmington, Del. Hydraulic constant speed control system for parallel-connected hydraulic motors. 2,415,603; Feb. 11.
- Müller, John F.: *See*—  
Lovell, Clarence A., and Müller.
- Muller, John H., New Rochelle, N. Y. Paint remover. 2,417,943; Mar. 25.
- Müller, Oskar A., Zurich, Switzerland. Producing tanning materials from waste sulfite liquor. 2,418,981; Apr. 15.
- Müller, Oskar, and O. Kleinschmit, Leipzig, Germany; vested in the Attorney General of the United States. Paper sheet handling method and mechanism. 2,422,629; June 17.
- Müller, Paul, assignor to the firm J. R. Geigy A. G., Basel, Switzerland.  $\alpha$ : $\alpha$ -di-(p-chlorophenyl)- $\beta$ : $\beta$ : $\beta$ -trichloroethane insecticidal compositions and method. Re. 22,922; Sept. 30.
- Müller, Paul, Neu-Allschwil, near Basel, assignor to the firm J. R. Geigy A. G., Basel, Switzerland. Diaryldichloro-ethylene compounds as insecticides. 2,429,839; Oct. 28.
- Müller, Paul, and W. Schindler, assignors to J. R. Geigy A. G., Basel, Switzerland. Chlorophenyl glycidic acid ester insecticides. 2,432,118; Dec. 9.
- Muller, Peter H., Hillside Township, Union County, N. J. Ice block upending machine. 2,423,251; July 1.
- Muller, Robert L., assignor to Burroughs Adding Machine Company, Detroit, Mich. Carbon sheet holding and positioning business machines. 2,421,462; June 3.
- Müller, Willy, Basel, and J. Scheidegger, Bottmingen, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Pyrazolone monoazo dyes containing polybasic acid esters of alkylene sulfones. 2,424,493; July 22.
- Muller-Molnar, Bela A., New York, N. Y. Hairpin dispenser. 2,423,788; July 8.
- Mulligan, Maurice J., Detroit, and P. L. Cramer, Highland Park, assignors to General Motors Corporation, Detroit, Mich. Isomerization of olefins. 2,423,612; July 8.
- Mullinix, Gird E., San Marino, assignor to Byron Jackson Co., Huntington Park, Calif. Pipe tong. 2,417,085; Mar. 11.
- Mullinix, Gird E., San Marino, assignor to Byron Jackson Co., Vernon, Calif. Elevator device. 2,425,753; Aug. 19.
- Mullins Manufacturing Corporation, assignee: *See*—  
Benson, John H.  
Bohm, Daniel.
- Mulqueen, Michael, assignor to Pellissier, Jonas & Rivet, Inc., Walden, N. Y. Fur carroting solution and process. 2,432,207; Dec. 9.
- Mulvany, Harry A., Berkeley, assignor to Hills Bros. Coffee, Inc., San Francisco, Calif. Electric solder-applying machine. 2,425,114; Aug. 5.
- Mulvany, Harry A., Berkeley, assignor to Hills Bros. Coffee, Inc., San Francisco, Calif. Electric soldering machine. 2,425,115; Aug. 5.
- Mulvey, Bernard, Schenectady, N. Y., assignor to General Electric Company. Die for coating wire. 2,433,673; Dec. 30.
- Mumford, William W., Eatontown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ultra high frequency receiver. 2,433,387; Dec. 30.
- Mumma, Harold J., Los Angeles, assignor to Food Machinery Corporation, San Jose, Calif. Transfer mechanism for a counter. 2,423,991; July 15.
- Mumma, Robert E.: *See*—  
Desch, Joseph R., Gulden, and Mumma.  
Desch, Joseph R., and Mumma.
- Mumma, Robert E., assignor to The National Cash Register Company, Dayton, Ohio. Electronic device. 2,422,583; June 17.
- Mumma, Robert E., assignor to The National Cash Register Company, Dayton, Ohio. Electronic device. 2,426,278; Aug. 26.
- Mumma, Robert E., and E. V. Gulden, assignors to The National Cash Register Company, Dayton, Ohio. Electronic accumulator. 2,426,279; Aug. 26.
- Mumma, Robert E., and F. X. Bucher, assignors to The National Cash Register Company, Dayton, Ohio. Communication system. 2,428,089; Sept. 30.
- Mummert, Arden J.: *See*—  
Wainwright, Nelson, and Mummert.
- Muncie Gear Works, Inc., assignee: *See*—  
Kemler, Emory N.
- Munday, John C.: *See*—  
Reeves, Edward D., and Munday.
- Munday, John C., Cranford, N. J., assignor to Standard Oil Development Company. Catalytic conversion of hydrocarbons. 2,420,558; May 13.
- Munford, Ellsworth H., assignee: *See*—  
Pinkerton, Harry D., and Phenice.
- Munger, Charles G., San Gabriel, Calif., assignor to American Pipe and Construction Co. Making plastic-metal pipe. 2,417,881; Mar. 25.
- Munro, Alexander L., assignor to Smith Engineering Works, Milwaukee, Wis. Apron type feeder. 2,428,887; Oct. 14.
- Munschak, Uscher, New York, N. Y. Heating system. 2,433,476; Dec. 30.
- Munschauer, Frederick E., assignor to Niagara Machine and Tool Works, Buffalo, N. Y. Fluid operated clutch. 2,428,336; Sept. 30.
- Munschauer, Frederick E., assignor to Niagara Machine and Tool Works, Buffalo, N. Y. Sleeve clutch and brake. 2,428,337; Sept. 30.
- Munson, Charles E., Summit, N. J. Dispensing device. 2,431,192; Nov. 18.
- Munson, Wilden A., Chatham, and J. C. Steinberg, Short Hills, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Acoustic range finder. 2,418,136; Apr. 1.
- Munter, Casimir J.: *See*—  
Hall, Ralph E., and Munter.
- Munters, Carl G., Stocksund, Sweden. Heat insulation. 2,417,435; Mar. 18.
- Munters, Carl G., Stocksund, Sweden. Production of foil material. 2,429,482; Oct. 21.
- Muntz, Alan & Company Limited, assignee: *See*—  
Beale, Evelyn S. L.
- Muntz, Eric P., Montreal, Quebec, Canada. Making prestressed reinforced concrete. 2,413,990; Jan. 7.
- Muntz, William E., and J. F. Wilcox, Schenectady, N. Y., assignors to General Electric Company. Radar locating equipment. 2,416,591; Feb. 25.
- Murad, Bill B., and J. S. Barbic, Cleveland, Ohio. Mechanical movement. 2,421,901; June 10.
- Murcek, Slavo J., Duquesne, and R. W. Price, Murrysburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Arc welder. 2,424,324; July 22.
- Murdoch, Alexander, Jr., Philadelphia, Pa., assignor to Radio Corporation of America. Frequency sweep modulator. 2,433,782; Dec. 30.
- Murdock, Clayton E., Millbrae, and R. L. Norton, Burlingame, assignors to Eitel-McCullough, Inc., San Bruno, Calif. Electrode mounting in electron discharge tube. 2,431,767; Dec. 2.
- Murdock, Frederick M.: *See*—  
Webber, Charles S., Luce, and Murdock.
- Murn, Rudolph, Lakewood, Ohio. Universal support for curtains and the like. 2,415,751; Feb. 11.
- Muros, Joseph, Cambridge, assignor to Gillette Safety Razor Company, Boston, Mass. Blade package. 2,425,337; Aug. 12.
- Murph, Donald H., Dallas, Tex. Fishhook mounting. 2,431,821; Dec. 2.
- Murphey, William, Chattanooga, Tenn. Undergarment. 2,420,089; May 6.
- Murphree, Eger V.: *See*—  
Tyson, Charles W., Campbell, Martin, and Murphree.
- Murphree, Eger V., Summit, N. J., assignor to Standard Catalytic Company. Destructive hydrogenation. 2,414,889; Jan. 28.
- Murphree, Eger V., and C. W. Tyson, Summit, D. L. Campbell, Short Hills, and H. Z. Martin, Elizabeth, N. J., assignors, by mesne assignments, to Standard Catalytic Company. Hydrogen production. 2,425,754; Aug. 19.
- Murphy, Charles M., Jr.: *See*—  
Zisman, William A., Baker, and Murphy.
- Murphy, Daniel C., Scobey, Mont. Grain seeding controlling device. 2,432,437; Dec. 9.
- Murphy, Edmund: *See*—  
Hales, John S., Murphy, and MacDonald.
- Murphy, Everett E., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Sewing machine strip guide. 2,428,431; Oct. 7.
- Murphy, Frank P., West Hartford, Conn. Cabinet having inner shelving unit movable downwardly therefrom and operating means therefor. 2,429,523; Oct. 21.
- Murphy, Howard, Glen Ridge, and R. E. Linse, Troy Hills, N. J., assignors to Curtiss-Wright Corporation. Variable pitch propeller. 2,425,261; Aug. 5.



- Murphy, Howard J., Greenwood, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Rotary operative fastener device and installation of the same. Re. 22,847; Feb. 25.
- Murphy, Hubert W.: *See*—Jenkins, Glenn L., and Murphy.
- Murphy, John F., Fitchburg, and E. K. Holt, Arlington, assignors to Lever Brothers Company, Cambridge, Mass. Reconstitution of glycerides. 2,418,898; Apr. 15.
- Murphy, John J.: *See*—Sanford, Roy S., and Murphy.
- Murphy, Joseph T., Akron, Ohio. Resilient vehicle wheel. 2,426,704; Sept. 2.
- Murphy, Kenneth A.: *See*—Mayne, Walter W., and Murphy.
- Murphy, Thomas G., Franklin, Pa., and J. Faust, Belleville, N. J., assignors to L. Sonneborn Sons, Inc. Pour point depressants for lubricating oils. 2,423,789; July 8.
- Murphy, William H., Chicago, Ill. Drafting apparatus. 2,424,840; July 29.
- Murrah, Edmund S., assignor to Morgan Construction Company, Worcester, Mass. Electrically driven rotary shear. 2,425,484; Aug. 12.
- Murray Company, The, assignee: *See*—Blewett, John.
- Murray, Corinne M., Pensacola, Fla. Mounting photographs and similar devices on sheets or pages. 2,418,421; Apr. 1.
- Murray Corporation of America, The, assignee: *See*—Avery, Clarence W.  
Ehring, Gunnar E.  
Kling, William F.  
Mills, Herbert E.
- Murray, D. J., Manufacturing Co., assignee: *See*—Gray, Nevenham A.  
Hartwig, Walter J.  
Rosmait, John A.
- Murray Deodorisers Limited, assignee: *See*—Murray, Henry L.
- Murray, Ernest E., Detroit, Mich. Abrasive belt polishing machine. 2,431,822; Dec. 2.
- Murray, Henry L., assignor to Murray Deodorisers Limited, Auckland, New Zealand. Apparatus for continuously cooling liquids, including liquefied fats, oils, or the like. 2,433,475; Dec. 30.
- Murray, Howard J., assignor to Signal Engineering & Manufacturing Company, New York, N. Y. Electrical circuit controller. 2,429,069; Oct. 14.
- Murray, Jerome L.: *See*—Stecher, Henry D., and Murray.
- Murray, Lawrence J.: *See*—Gillings, Charles, and Murray.
- Murray Manufacturing Corporation, assignee: *See*—Struk, John, and Good.
- Murray, Maurice J., Clarendon Hills, assignor to Universal Oil Products Company, Chicago, Ill. Recovery of aluminum halides from sludges thereof. 2,431,768; Dec. 2.
- Murray, Maxton F.: *See*—Britton, Edgar C., Livak, and Murray.
- Murray, Otis W., Fords, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of photographic compositions and elements. 2,414,208; Jan. 14.
- Murray, Otis W., Fords, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Multilayer photographic elements. 2,423,465; July 8.
- Murray, Ray M., Jr.: *See*—Morton, William, and Murray.
- Murray, Thomas F., Jr.: *See*—Kenyon, William O., and Murray.
- Murray, William S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing CClF<sub>3</sub>. 2,426,637; Sept. 2.
- Murray, William S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing CHF<sub>3</sub>. 2,426,638; Sept. 2.
- Murrian, John H., executor: *See*—Fulton, Weston M.
- Murtaugh, Joseph P.: *See*—Daniels, Arthur W., and Murtaugh.
- Musgrave, Herman C.: *See*—Guerin, Paul R., and Musgrave.
- Musher Foundation Incorporated, assignee: *See*—Musher, Sidney.
- Musher, Sidney, New York, N. Y. Frozen dessert composition. 2,431,704; Dec. 2.
- Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Thickening agent for aqueous compositions and producing same. 2,414,117; Jan. 14.
- Musher, Sidney, assignor to Musher Foundation Incorporated, New York, N. Y. Oat pudding composition. 2,418,847; Apr. 15.
- Muskat, Irving E., Plainfield, N. J. Treating tin bearing materials. 2,416,709; Mar. 4.
- Muskat, Irving E., Plainfield, assignor to Marco Chemicals, Inc., Sewaren, N. J. Polymerizable mixed ester of an unsaturated polycarboxylic acid, phthalic acid, and a lower aliphatic glycol. 2,423,042; June 24.
- Muskat, Irving E., Glenside, Pa., assignor to Marco Chemicals, Inc. Polymerizable diester compounds and making same. 2,415,366; Feb. 4.
- Muskegon Machine Company, assignee: *See*—Norstrom, Joseph, and Smith.
- Musselman, Alvin J., Hudson, Ohio. External contracting band brake. 2,425,116; Aug. 5.
- Musselman, Henry E., and W. H. Buck, Kalamazoo, Mich. Dispenser for cigarettes. 2,425,553; Aug. 12.
- Musselman, John M., South Euclid, assignor to The Standard Oil Company, Cleveland, Ohio. Composition of matter suitable for use as a lubricant and lubricant comprising the same. 2,415,836; Feb. 18.
- Musselman, John M., South Euclid, assignor to The Standard Oil Company, Cleveland, Ohio. Lubricating composition. 2,419,325; Apr. 22.
- Musselman, John M., South Euclid, assignor to The Standard Oil Company, Cleveland, Ohio. Preparing composition of matter suitable for use as a lubricant and as an addition agent to lubricants. 2,422,206; June 17.
- Musselman, John M., South Euclid, and H. P. Lankelma, Shaker Heights, assignors to The Standard Oil Company, Cleveland, Ohio. Lubricant or the like. 2,415,837; Feb. 18.
- Musselman, John M., South Euclid, and H. P. Lankelma, Shaker Heights, assignors to The Standard Oil Company, Cleveland, Ohio. Lubricating composition preparation. 2,415,838; Feb. 18.
- Musselman, John M., South Euclid, and H. P. Lankelma, Shaker Heights, assignors to The Standard Oil Company, Cleveland, Ohio. Lubricant and the like. 2,419,153; Apr. 15.
- Musselman, John M., South Euclid, and H. P. Lankelma, Shaker Heights, assignors to The Standard Oil Company, Cleveland, Ohio. Preparation of lubricants. 2,422,630; June 17.
- Musser, David M., Orange, N. J., assignor to Pacific Mills, Boston, Mass. Producing absorbent cellulosic material. 2,426,561; Aug. 26.
- Musser, Rawley H., and L. J. White, Salem, Va. Wheel gear. 2,424,941; July 29.
- Mussler, Frank H.: *See*—Bullard, Edward P., III, and Mussler.
- Mustain, Samuel J., Newark, N. J. Holder and warmer for liquid containers. 2,419,416; Apr. 22.
- Mustonen, Reino H., Detroit, assignor to The Gear Grinding Machine Company, Hamtramck, Mich. Gauging device for determining dimensions of rotary members of pumps. 2,422,034; June 10.
- Mutch, James B., assignor to Rochester Shoe Tree Co., Inc., Rochester, N. Y. Toy. 2,423,657; July 8.
- Muther, Adolf, Zurich, Switzerland. Dialing card for telephones. 2,430,530; Nov. 11.
- Muther, Lorenz F., Newton Center, and F. S. Glines, East Lynn, Mass.; said Glines assignor to said Muther. Machine for forming and reinforcing cutouts. 2,421,639; June 3.
- Mutual Chemical Company of America, assignee: *See*—Tarr, Omar F., and Darrin.
- Muzzey, David S., Jr., Alexandria, Va., and R. D. Miller, Washington, D. C., assignors to Shell Development Company, San Francisco, Calif. Electronic commutator. 2,417,609; Mar. 18.
- Muzzey, Fred E.: *See*—Quinn, Edward, and Muzzey.
- Muzzy, Guy E., Oakland, Calif. Electric lawn edger. 2,432,922; Dec. 16.
- Mycalex Corporation of America, assignee: *See*—Wedlock, Albert W. H.
- Myers, Claude G., Bryn Mawr, Pa., and R. C. Hansford and A. N. Sachanen, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Isomerization of paraffins in the presence of nascent aluminum halide and a heterocyclic compound. 2,424,953; July 29.
- Myers, Gerald R.: *See*—Holman, Robert W., Myers, and Rendel.
- Myers, Henry C.: *See*—Fakala, William E., and Myers.
- Myers, Homer S.: *See*—Selman, Roland W., Jr., and Myers.
- Myers, Ira O.: *See*—Prichard, Arthur C., and Myers.
- Myers, James H., Jr., assignee: *See*—Davy, Robert E.
- Myers, John H., Baton Rouge, La. Journal box bucket hanger. 2,424,364; July 22.
- Myers, Joseph V., Tampa, Fla. Vegetable cutter with stationary knives and reciprocating plunger. 2,423,399; July 1.
- Myers, Joseph W., assignor, by mesne assignments, to Proctor Electric Company, Philadelphia, Pa. Electrical cooking apparatus. 2,419,083; Apr. 15.
- Myers, Joseph W., assignor, by mesne assignments, to Proctor Electric Company, Philadelphia, Pa. Electrical surface cooking apparatus. 2,424,412; July 22.
- Myers, Latimer D., assignor to Emery Industries, Inc., Cincinnati, Ohio. Plasticized zein composition. 2,420,381; May 13.
- Myers, Latimer D., Cincinnati, and V. J. Muckerheide, Silverton, assignors to Emery Industries, Inc., Cincinnati, Ohio. Separating fatty acids. 2,421,157; May 27.
- Myers, Latimer D., Cincinnati, and V. J. Muckerheide, Silverton, assignors to Emery Industries, Inc., Cincinnati, Ohio. Cutting oil base. 2,421,158; May 27.
- Myers, Latimer D., Cincinnati, and V. J. Muckerheide, Silverton, assignors to Emery Industries, Inc., Cincinnati, Ohio. Cutting oil base. 2,421,159; May 27.
- Myers, Leslie W., assignee, et al.: *See*—Krebs, Daniel D.



- Myers, Lewis C., Freeport, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine frame. 2,418,043; Mar. 25.
- Myers, Lewis C., Freeport, assignor to Royal Typewriter Company, Inc., New York, N. Y. Mask for typewriter or like machine. 2,425,485; Aug. 12.
- Myers, Lloyd D., El Paso, Tex. Educational toy. 2,429,027; Oct. 14.
- Myers, Norval F., Short Hills, N. J., assignor to Standard Oil Development Company. Increasing the usefulness of solid isomerization catalyst masses. 2,423,845; July 15.
- Myers, Oscar, Mount Vernon, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Marker circuit for cross bar telephone system. 2,416,710; Mar. 4.
- Myers, Oscar, Mount Vernon, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Toll trunk selection. 2,416,711; Mar. 4.
- Myerson, Martin: *See—*  
Myerson, Simon and M.
- Myerson, Simon and M., Brookline, Mass. Denture. 2,419,084; Apr. 15.
- Myles, Beverly R., New York, N. Y. Furrowing and planter device. 2,415,900; Feb. 18.
- Myles, James R., and P. J. Garner, Northwich, England, assignors to Imperial Chemical Industries Limited. Manufacture of chlorinated polythenes. 2,422,919; June 24.
- Mynssen, Jacob W., assignor to Aktiengesellschaft der Eisen- und Stahlwerke vormals Georg Fischer, Schaffhauser, Switzerland. Self-locking equalizing drive. 2,424,942; July 29.
- Mynssen, Jacob W., M. Ehrsam, and K. Künzi, assignors to Aktiengesellschaft der Eisen- und Stahlwerke vormals Georg Fischer, Schaffhausen, Switzerland. Self-locking equalizing drive. 2,431,272; Nov. 18.
- Myszkowski, Anton O., Gilman Hot Springs, Calif. Fruit jar washer. 2,420,260; May 6.
- N E A Service, Inc., assignee: *See—*  
Thompson, Louis A.
- Naab, Julius, and R. Ostwald, Easton, Pa., assignors to Ingersoll-Rand Company, New York, N. Y. Safety device for valve gear of expansible chamber motors. 2,423,516; July 8.
- Nabors, William C., Mansfield, La. Lower fifth wheel. 2,429,483; Oct. 21.
- Nacey, Harry M.: *See—*  
Jackson, Frank W., and Nacey.
- Nachtman, John S., Youngstown, Ohio. Heat-treating electroplated material. 2,418,087; Mar. 25.
- Nachtman, John S., Youngstown, Ohio. Heat-treatment of electroplated strip metal. 2,418,088; Mar. 25.
- Nachtman, John S., Youngstown, Ohio. Manufacture of rustproof electrolytic coatings for metal stock. 2,428,033; Sept. 30.
- Nachtman, John S., Youngstown, Ohio. Electrolytic deposition of rustproof coatings. 2,428,318; Sept. 30.
- Naco Manufacturing Company, assignee: *See—*  
Root, Ralph R.
- Nadeau, Joseph A. L., The Forks, Maine. Snowshoe harness. 2,420,261; May 6.
- Nadig, Francis H., Philadelphia, and J. L. Bohn, Glenside, Pa. Hydraulic interferometer. 2,418,786; Apr. 8.
- Naeher, Paul, Evanston, and M. T. Williams, Oak Park, Ill., assignors to B. F. Gump Co. Infrared treatment of cereal germs. 2,428,090; Sept. 30.
- Nagel, Charles R., Burbank, Calif. Adjustable screen door guard. 2,431,416; Nov. 25.
- Nagel-Chase Mfg. Co., The, assignee: *See—*  
Schultz, Edward.
- Nagel, George W., Catonsville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Television sweep circuits. 2,414,546; Jan. 21.
- Nagel, George W., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Cathode-ray tube with spot intensity proportional to radial deflection. 2,416,199; Feb. 18.
- Nagel, George W., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Cathode-ray tube with spot intensity proportional to radial deflection. 2,416,200; Feb. 18.
- Nagel, George W., Catonsville, and M. A. Schultz, Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Multivibrator circuits. 2,416,201; Feb. 18.
- Nagel, Theodore, Brooklyn, N. Y. Atomizing liquids. 2,419,365; Apr. 22.
- Nagle, Harold W., Brooklyn, and J. H. Haines, Forest Hills, assignors to Mimex Company, Inc., Long Island City, N. Y. Can sealing compound. 2,427,618; Sept. 16.
- Nagler, Forrest, Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Hydraulic turbine seal. 2,416,268; Feb. 18.
- Nagy, Daniel E.: *See—*  
Thurston, Jack T., and Nagy.
- Nagy, Daniel E., and B. C. Redmon, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparation of zinc dicyanamide. 2,418,476; Apr. 8.
- Nagy, Daniel E., and B. C. Redmon, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparation of barium dicyanamide. 2,427,619; Sept. 16.
- Nahas, Anna: *See—*  
Nahas, Lillian L. and A.
- Nahas, Lillian L. and A., Beaumont, Tex. Pajama trousers. 2,430,406; Nov. 4.
- Nalbach, John R., Oak Park, assignor to Middleby-Marshall Oven Company, Chicago, Ill. Conveyer. 2,414,164; Jan. 14.
- Nalbandian, Peter, assignor to Improved Carloading Company, Fresno, Calif. Car squeeze. 2,424,768; July 29.
- Nalle, Charles R., assignee: *See—*  
Graft, Benjamin P.
- Nalle, Charles R., Philadelphia, Pa. Caster mounting. 2,416,532; Feb. 25.
- Nalley, Edwin W. B., Omaha, Nebr. Retractable bracket. 2,415,604; Feb. 11.
- Nalpanian, Rebecca, San Francisco, Calif. Manicuring implement. 2,422,207; June 17.
- Nantfeldt, William, Clifton, assignor to World Bestos Corp., Paterson, N. J. Making friction material. 2,415,752; Feb. 11.
- Nanna, Frank S., North Lake Village, Ill. Baby walker and stroller. 2,415,146; Feb. 4.
- Napier, D., & Son Limited, assignee: *See—*  
Marcell, Reginald C.
- Narcus, Harold, Worcester, Mass. Silvering nonconductive materials. 2,421,079; May 27.
- Nardone, Romeo M., assignor to Bendix Aviation Corporation, Teterboro, N. J. Solenoid. 2,417,990; Mar. 25.
- Nardone, Romeo M., Teaneck, assignor to Bendix Aviation Corporation, Teterboro, N. J. Engine starter clutch. 2,424,494; July 22.
- Nardone, Romeo M., Teaneck, assignor to Bendix Aviation Corporation, Teterboro, N. J. Reversible direct-current motor. 2,432,582; Dec. 16.
- Nardone, Romeo M., Westwood, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Driving mechanism. 2,429,425; Oct. 21.
- Nardulli, Peter F.: *See—*  
Bretz, Frank E., Jr., and Nardulli.
- Nash, Alfred G., Richmond Hill, N. Y., assignor to Fairchild Camera and Instrument Corporation. Rotating camera mount. 2,415,563; Feb. 11.
- Nash Engineering Company, assignee: *See—*  
Adams, Harold E.
- Nash, James H., Detroit, and F. C. Morris, Ferndale, Mich. Toy aircraft flight control device. 2,432,119; Dec. 9.
- Nash-Kelvinator Corporation, assignee: *See—*  
Gouloze, Martin J.  
Philipp, Lawrence A.  
Ulrich, Theodore.
- Nasmith, John W., Heaton Mersey, Manchester, England. Combing machine for textile fibers. 2,416,840; Mar. 4.
- Nasmith, John W., Heaton Mersey, Manchester, England. Combing machine for textile fibers. 2,428,633; Oct. 7.
- Nassimbene, Ernest, assignor to Gates Rubber Company, Denver, Colo. Belt. 2,417,512; Mar. 18.
- Nast, Leo, Fanwood, N. J. Mold for producing shapes of plastic material. 2,415,961; Feb. 18.
- Natelson, Samuel, and M. Weiss, Brooklyn, N. Y. Coffee powder. 2,431,496; Nov. 25.
- Nathan, Alan H.: *See—*  
Hunter, James H., & Nathan.
- Nathan, Emanuel, Maplewood, N. J. Spectacle case. 2,423,338; July 1.
- Nathan, Emanuel, Maplewood, N. J. Spectacle case. 2,430,240; Nov. 4.
- Nathan Manufacturing Company, assignee: *See—*  
Folke, Bengt E., and Shepard.  
Shepard, Ralph H.
- National Acme Company, The, assignee: *See—*  
Jeffrey, Max L.  
Drissner, Alfred E., and Barkinen.
- National Agrol Company, Inc., assignee: *See—*  
Hale, William J.  
Hale, William J., and Miller.  
Miller, Harry.
- National Aluminate Corporation, assignee: *See—*  
Bird, Paul G.  
Bird, Paul G., and Jacoby.  
Jacoby, Arthur L.  
Ryznar, John W.
- National Aluminum Manufacturing Co., assignee: *See—*  
Ives, Clifford E.
- National Automotive Fibres, Inc., assignee: *See—*  
Faris, Harold P., and White.
- National Bank of Bloomington, The, executor: *See—*  
Paxton, John W. and G. N., and Cornish.
- National Battery Company, assignee: *See—*  
Sargent, William C.
- National Biscuit Company, assignee: *See—*  
Palmer, Earl C.
- National Blank Book Company, assignee: *See—*  
Schade, Frank S.
- National Brass Company, assignee: *See—*  
Lickteig, Albert F.  
Quigley, Herbert.  
Vander Henst, Abraham.
- National Bread Wrapping Machine Company, assignee: *See—*  
Hoppe, William.
- National Broach & Machine Company, assignee: *See—*  
Praeg, Walter S.



- National Carbon Company, Inc., assignee: *See—*  
 Ramadanoff, Dimiter.  
 Skinner, George M.  
 Wilson, Howard R.  
 Winslow, Nathaniel M., and Helse.
- National Cash Register Company, The, assignee: *See—*  
 Adams, Clyde S.  
 Carter, Elmer C.  
 Carter, Elmer C., and Dudis.  
 Chollar, Robert G.  
 Chollar, Robert G., and Wilson.  
 Compton, Justin S.  
 Desch, Joseph R., and Gulden, and Mumma.  
 Desch, Joseph R., and Mumma.  
 Gulden, Ernest B.  
 Moser, Rudolph J.  
 Mumma, Robert E.  
 Mumma, Robert E., and Bucher.  
 Saxby, Frank R.  
 Spurlino, Pascal, and Rauch.  
 Williams, Paul H.  
 Wilson, Gelen J.
- National City Bank of Evansville, The, administrator: *See—*  
 Thomas, Albert R.
- National Cylinder Gas Company, assignee: *See—*  
 Bernard, Arthur A.  
 Bour, Robert C.  
 Mott, Chester, Chouinard, and Dove.
- National Dairy Products Corporation, assignee: *See—*  
 Atwood, Francis C.
- National Drug Company, The, assignee: *See—*  
 Avakian, Sourhen.  
 Urist, Harold, and Martin.
- National Foam System, Inc., assignee: *See—*  
 Schultz, Paul J.
- National Folding Box Company, Incorporated, assignee: *See—*  
 Fessenden, Walter P.  
 Fink, Raymond E.  
 Pantalone, Vincent R.  
 Williamson, Marshall I.
- National Fruit Products Company, Inc., assignee: *See—*  
 Rooker, William A.
- National Inventions Corporation, assignee: *See—*  
 Boucher, Charles P.  
 Boucher Charles P., and Kuhl.  
 Bridges, John H.
- National Lead Company, assignee: *See—*  
 Dusan, Frank.  
 Hoeppel, Raymond W.  
 Kebrich, Leonard M.  
 Larsen, Delmar H.  
 Meister, Walter F.  
 Ratcliffe, George L.  
 Rau, Carl W., and Swartz.  
 Stewart, Alexander, Pitrot, and Kebrich.
- National Lock Company, assignee: *See—*  
 Ostrom, Martin.
- National Malleable and Steel Castings Company, assignee: *See—*  
 Blackmore, William.  
 Erwin, Roy, Troutman and Lindquist.  
 Metzger, William J.
- National Oil Products Company, assignee: *See—*  
 Cunder, Joseph.  
 Robinson, Edwin A., and Beach.
- National Plastic Products Company, The, assignee: *See—*  
 Winer, Ephraim.
- National Pneumatic Company, assignee: *See—*  
 Newkirk, John R.
- National Pressure Cooker Company, assignee: *See—*  
 Buske, Gilbert E.  
 Wittenberg, Edward H.
- National Research Corporation, assignee: *See—*  
 Stauffer, Robert A.
- National Sewing Machine Company, assignee: *See—*  
 Best, Clarence S.
- National Slug Rejectors, Inc., assignee: *See—*  
 Wallin, Fred E.
- National Southern Products Corporation, assignee: *See—*  
 Hagler, Marshal E.
- National-Standard Company, assignee: *See—*  
 Adler, Orville E.
- National Steel Corporation, assignee: *See—*  
 Cover, Martin L.  
 Kramer, Adrian P.  
 Olson, Dewey O.  
 Wallis, Charles E., and Shanley.  
 Waltman, Edwin G.  
 Ward, William A.
- National Supply Company, The, assignee: *See—*  
 Gallimore, Marshall E.  
 Young, Forrest J.
- National Transits Inc., assignee: *See—*  
 Tingdale, Warren.
- National Tube Company, assignee: *See—*  
 Findlater, Stevenson.
- National Union Radio Corporation, assignee: *See—*  
 Knight, Walter S., and Lindstrom.  
 Honzl, Otto G.  
 Schafer, Elwood W.
- National Urn Bag Co., Inc., assignee: *See—*  
 Barnett, Louis.  
 Irmischer, Hans O.
- National Vendors Inc., assignee: *See—*  
 Fry, Benjamin W.
- National Venetian Blind Company, assignee: *See—*  
 Peterson, John W., and Cooper.
- Natkins, Efreem N., New York, N. Y. Flexible drive coupling. 2,417,436; Mar. 18.
- Natural Casing Institute, Inc., assignee: *See—*  
 Sloman, Irving.
- Nau, Wilmer H., South Euclid, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio. Printing plate and reinforced carrier therefor. 2,425,338; Aug. 12.
- Nauert, Carl H., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Shelf for refrigerator cabinets. 2,428,718; Oct. 7.
- Naugle, John J., assignor of two-fifths to Andres Bay Trading Corporation, and two-fifths to Cuban Dominican Sales Corporation, New York, N. Y. Defecation of sugar solutions. 2,422,699; June 24.
- Naul, James M., Plainfield, N. J. Shunt universal motor. 2,417,120; Mar. 11.
- Naulty, Howard W.: *See—*  
 Summerville, Donald V., and Naulty.
- Naumann, Donald J., South Gate, Calif. Variable airfoil. 2,426,785; Sept. 2.
- Naumann, Edward J., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Treatment for resins to eliminate static. 2,416,202; Feb. 18.
- Naumann, Herbert, Elizabethton, Tenn., assignor to North American Rayon Corporation, New York, N. Y. Tensiometer for yarn coning machines. 2,428,379; Oct. 7.
- Naumann, Herbert O., Englewood, N. J., assignor to North American Rayon Corporation, New York, N. Y. Manufacture of synthetic yarn. 2,416,533; Feb. 25.
- Naumann, Herbert O., Englewood, N. J., assignor to North American Rayon Corporation, New York, N. Y. Apparatus for treating yarn. 2,416,534; Feb. 25.
- Naumann, Herbert O., Englewood, N. J., assignor to North American Rayon Corporation, New York, N. Y. Apparatus for wet treatment and drying of a moving wet spun synthetic thread strand. 2,416,535; Feb. 25.
- Navaretta, Mallo, Providence, R. I. Removing fire film from heated silver-copper alloys. 2,420,262; May 6.
- Naveken, Louis: *See—*  
 Snook, Samuel I., Naveken, and Kehoe.
- Navias, Louis, Schenectady, and R. L. Green, Scotia, N. Y., assignors to General Electric Company. Ceramic products. 2,424,111; July 15.
- Navon, Haimi, Brooklyn, N. Y. Garment hanger. 2,415,216; Feb. 4.
- Navon, Haimi, Brooklyn, N. Y. Egg cooker. 2,425,199; Aug. 5.
- Navy, United States of America, as represented by the Secretary of the: *See—*  
 Anderson, Carl D., Leighton, Wilts, and Melzian.  
 Bean, Howard S., and Morey.  
 Bleakney, Robert M., and Workman.  
 Boyers, Johns S.  
 Breeze, George E., and Gay.  
 Bundy, Francis P.  
 Busacker, John W., and Maneval.  
 Chilton, Thomas H., and Lapple.  
 Ferris, Robert G.  
 Gould, Albert S.  
 Gould, Albert S., and Lindvall.  
 Hammond, John H., Jr.  
 Norden, Carl L., and Barth.  
 Richards, Lorenzo A.  
 Sanders, Edwin R.  
 Swennes, Benjamin A.  
 Thuras, Albert L.  
 Vorobik, Casimer E.  
 Wood, Leon G. S.
- Naylor, Joshua C.: *See—*  
 Holden, Warwick C., and Naylor.
- Naylor Pipe Company, assignee: *See—*  
 Lathrope, Franklin C.
- Naymik, Joseph, Sharon, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Solenoid steering system for dirigible craft. 2,427,735; Sept. 23.
- Neal, Arthur M., and J. J. Verbanc, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Composite structures. 2,415,839; Feb. 18.
- Neal, Duane R., assignor to General Motors Corporation, Dayton, Ohio. Scum overflow for clothes washing machines. 2,421,803; June 10.
- Neal, Ernest C., Chicago, Ill. Handle lock for tools. 2,425,437; Aug. 12.
- Neary, Leonard J., Los Angeles, Calif. Composition for removing unwanted hair. 2,417,882; Mar. 25.
- Nebesar, Robert J., assignor to Universal Moulded Products Corporation, Bristol, Va. Airfoil structure. 2,427,065; Sept. 9.
- Nechamkin, Howard, Brooklyn, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Black finishing metals. 2,415,651; Feb. 11.
- Neddermeyer, Seth H., Pasadena, Calif., and D. W. Kerst, Urbana, Ill., assignors to the Government of the United States, as represented by the Director of the Office of Scientific Research and Development, Office for Emergency Management. Method and apparatus for producing radiographs. 2,418,523; Apr. 8.
- Needham, Houghton L., Chicago, Ill. Hand truck for transporting car wheels. 2,418,522; Apr. 8.



- Needham, John C., London, England, assignor to Evershed and Vignoles Limited. Electrical follow-up system. 2,425,160; Aug. 5.
- Needre, John, Newport News, Va. Fire escape. 2,424,365; July 22.
- Needre, John, Newport News, Va. Starter and lock for fire escape. 2,424,366; July 22.
- Neeley, James C., Portland, Oreg. Tandem carrier. 2,416,492; Feb. 25.
- Neeley, James C., Portland, Oreg. Collapsible one-wheeled carrier. 2,429,028; Oct. 14.
- Neeley, Lester E., North Hollywood, Calif. Piston construction. 2,428,983; Oct. 14.
- Neelley, Julius W., Front Royal, Va., assignor to General Chemical Company, New York, N. Y. Vaporizing sulfur. 2,424,495; July 22.
- Neely, William H., assignor, by mesne assignments, to The Universal Wire Spring Company, Cleveland, Ohio. Frame construction with attachment strips. 2,425,951; Aug. 19.
- Neff, Carl, Louisville, Ohio. Ladder supported scaffold. 2,418,597; Apr. 8.
- Neff, Joseph J., South Euclid, assignor, by mesne assignments, to Jack & Heintz Precision Industries Inc., Cleveland, Ohio. Electronic gauge for measuring the radial freedom of anti-friction bearings in their races. 2,419,280; Apr. 22.
- Neff, Joseph J., South Euclid, assignor, by mesne assignments, to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Electric gauge for measuring ball-bearing inner race grooves. 2,419,461; Apr. 22.
- Neff, Joseph J., South Euclid, assignor, by mesne assignments, to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Electrically responsive gaging mechanism for assorting bearing balls. 2,429,891; Oct. 28.
- Negretti & Zambra, assignee: *See*—Greening, Emil F.
- Negri, John A., Santa Monica, Calif. Garage door operating mechanism. 2,430,729; Nov. 11.
- Neher, Harry T., Bristol, and C. F. Woodward, Abington, assignors to Röhm & Haas Company, Philadelphia, Pa. Copolymers of acrolein and methacrolein with acrylic compounds. 2,416,536; Feb. 25.
- Nehls, Charles H., Detroit, Mich., assignor to Independent Lock Company, Fitchburg, Mass. Night latch. 2,418,044; Mar. 25.
- Nehrke, Charles, assignor of one-half to P. Copeland, New York, N. Y. Slideable and pivoted cover for containers. 2,424,112; July 15.
- Neider, Joseph H., Struthers, Ohio. Apparatus for cleaning open hearth checker work and the like. 2,418,045; Mar. 25.
- Neighbour, Leonard B., assignor to Deere & Company, Moline, Ill. Tractor accessory and mounting therefor. 2,413,775; Jan. 7.
- Neild, William G., Warren Point, assignor to Bendix Aviation Corporation, Teterboro, N. J. Carbon pile voltage regulator. 2,427,805; Sept. 23.
- Neild, William G., Warren Point, assignor to Bendix Aviation Corporation, Teterboro, N. J. Electromagnetic regulator. 2,427,806; Sept. 23.
- Neild, William G., Warren Point, assignor to Bendix Aviation Corporation, Teterboro, N. J. System for parallel operation of generators. 2,433,621; Dec. 30.
- Neill, Paul, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical connector. 2,432,120; Dec. 9.
- Neilsen, Peter C., Chicago, Ill. Tire rasp. 2,416,203; Feb. 18.
- Neiman, Walter H.: *See*—Rothman, Max I., and Neiman.
- Nein, William C., New York, N. Y. Combined inkwell and penholder. 2,433,144; Dec. 23.
- Neis, John H.: *See*—Conrad, Richard F., and Neis.
- Neiser, Joseph, Miami, Fla. Tobacco pipe. 2,416,537; Feb. 25.
- Neish, Arthur C., G. A. Ledingham, and A. C. Blackwood, assignors to Honorary Advisory Council for Scientific and Industrial Research, Ottawa, Ontario, Canada. Production of glycerol by fermentation. 2,432,032; Dec. 2.
- Neiswinter, James T., South Orange, N. J., assignor to American Telephone and Telegraph Company. Signaling apparatus. 2,425,818; Aug. 19.
- Neiswinter, James T., South Orange, N. J., assignor to American Telephone and Telegraph Company. Telegraph distortion measuring system. 2,425,819; Aug. 19.
- Neiswinter, James T., South Orange, N. J., assignor to American Telephone and Telegraph Company. Selective system. 2,425,820; Aug. 19.
- Nekoosa-Edwards Paper Company, assignee: *See*—Keepers, Cecil H.
- Nelles, Johannes, Leverkusen-Schlebusch, O. Bayer, Leverkusen-I. G. Werk, W. Tischbein, Leverkusen-Wiesdorf, and F. Baehren, Dormagen, Germany; vested in the Attorney General of the United States. Textile softening with nitrogen containing linear ester polymer. 2,417,513; Mar. 18.
- Nelles, Russell E., Millburn, N. J., assignor to The Union Manufacturing Company, New Britain, Conn. Load lifting control for hoisting apparatus. 2,428,578; Oct. 7.
- Nelsen, John A., Glendale, and H. G. Finlay, Burbank, Calif. Sprinkler head shutoff tool. 2,417,265; Mar. 11.
- Nelson, Alfred, Columbus, Mont. Fish scaring device. 2,428,677; Oct. 7.
- Nelson, Arthur J., San Mateo, Calif. Hydroturbine pump. 2,416,538; Feb. 25.
- Nelson, Alvin I., Boston, Mass., assignor to General Foods Corporation, New York, N. Y. Mixing and filling apparatus. 2,433,478; Dec. 30.
- Nelson, Arvid: *See*—Santini, Danilo, and Nelson.
- Nelson, Augie L., assignor to Hayes Manufacturing Corporation, Grand Rapids, Mich. Convertible seat structure. 2,418,787; Apr. 8.
- Nelson, Bernard, assignor to Lanco Products Corporation, New York, N. Y. Manufacturing ice cream and product thereof. 2,423,613; July 8.
- Nelson, Bertel S.: *See*—Mackmann, Arthur, and Nelson.
- Nelson, Bradford B., assignee: *See*—Nelson, James H.
- Nelson, Bruce G., Tacoma, Wash. Reel construction. 2,424,413; July 22.
- Nelson, Channing C.: *See*—Kleiber, Carl E., Campbell, Stines, and Nelson.
- Nelson, Charles, Jr., Lucas, Kans. Tractor-mounted log-holding power-operator saw. 2,420,836; May 20.
- Nelson, Clifford H., Tujunga, Calif. Garment hanger. 2,420,440; May 13.
- Nelson, Dale H., Southampton, N. Y., and J. R. Cosby, Towson, Md., assignors to The Western Union Telegraph Company, New York, N. Y. Locating faults in electrical conductors. 2,425,554; Aug. 12.
- Nelson, Donald E.: *See*—Okress, Ernest C., and Nelson.
- Nelson, Earle S., Chicago, Ill. Tie holder. 2,430,943; Nov. 18.
- Nelson, Edwin F., assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,414,972; Jan. 28.
- Nelson, Edwin F., assignor to Universal Oil Products Company, Chicago, Ill. Catalytic cracking of hydrocarbons. 2,414,973; Jan. 28.
- Nelson, Edwin F., assignor to Universal Oil Products Company, Chicago, Ill. Catalytic conversion of hydrocarbons. 2,425,555; Aug. 12.
- Nelson, Harry H., assignor to Lorentzen Hardware Mfg. Corp., New York, N. Y. Venetian blind tilter. 2,430,579; Nov. 11.
- Nelson, Herman, Corporation, The, assignee: *See*—Budlane, Stanley J.
- Nelson, Homer B.: *See*—Walters, Frank J., and Nelson.
- Nelson, James H., assignor to B. B. Nelson, Ladoga, Ind. Hopper feed control. 2,430,407; Nov. 4.
- Nelson, John R., assignee, et al.: *See*—Krebs, Daniel D.
- Nelson, John V., Elmhurst, assignor to F. K. Krag, Chicago, Ill. Tool grinding machine and the like. 2,423,790; July 8.
- Nelson, John V., Elmhurst, assignor to Krag Steel Products, Inc., Chicago, Ill. Dies and the like. 2,423,791; July 8.
- Nelson, John W., assignee: *See*—Rakos, Joseph F.
- Nelson, Julius R., Barrington, R. I., assignor to The F. Mansfield & Sons Company, New Haven, Conn. Dredge-hoisting apparatus. 2,417,121; Mar. 11.
- Nelson Machine Tool Company, assignee: *See*—De Good, Maynard J.
- Nelson, Mark B., San Diego, Calif. Plant transplanter. 2,428,499; Oct. 7.
- Nelson, Mildred P., assignee et al.: *See*—Polson, Samuel D., and Nelson.
- Nelson, Neil A., Dayton, Ohio. Crystal holder. 2,430,478; Nov. 11.
- Nelson, Paul A., Lake Grove, Oreg. Straightedge protractor. 2,420,090; May 6.
- Nelson, Reuben L., Casper, Wyo. Pump. 2,431,070; Nov. 18.
- Nelson, Richard B., Schenectady, N. Y., assignor to General Electric Company. Pulse amplifier. 2,416,114; Feb. 18.
- Nelson, Richard B., Schenectady, N. Y., assignor to General Electric Company. Artificial transmission line. 2,420,559; May 13.
- Nelson, Richard B., Schenectady, N. Y., assignor to General Electric Company. Tunable magnetron of the resonator type. 2,424,496; July 22.
- Nelson, Richard B., Schenectady, N. Y., assignor to General Electric Company. Gold-copper solder. 2,426,467; Aug. 26.
- Nelson, Richard B., Schenectady, N. Y., assignor to General Electric Company. High-frequency electric discharge device. 2,428,888; Oct. 14.
- Nelson, Rolland D., Hales Corners, assignor to Line Material Company, South Milwaukee, Wis. Method and machine for winding coils. 2,414,603; Jan. 21.
- Nelson, Seddon C., Front Royal, Va., assignor to American Viscose Corporation, Wilmington, Del. Spindle mounting. 2,421,389; June 3.
- Nelson, Seddon C., Front Royal, Va., assignor to American Viscose Corporation, Wilmington, Del. Bucket spinning guide. 2,423,721; July 8.
- Nelson, Sven H.: *See*—Polson, Samuel D., and Nelson.



- Nelson, Ted, assignee: *See*—  
Evans, Charles S.  
Rommer, Herbert S.  
Zuponic, John.
- Nelson, Ted, San Leandro, Calif. Vented molding ferrule for electric stud welding. 2,416,204; Feb. 18.
- Nelson, William L., Highland Park, and W. N. Morris, New Brunswick, N. J., assignors to Johnson & Johnson. Pressure sensitive adhesive tape. 2,415,901; Feb. 18.
- Nelson, Wyly D., Reserve, La. Purification of liquids by lignin. 2,415,439; Feb. 11.
- Nemet, Anthony, London, England, assignor to The Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electrical timing arrangement. 2,431,705; Dec. 2.
- Nemeth, Otto R., Chicago, Ill. Power-driven intermittent strip film mechanism. 2,425,704; Aug. 12.
- Nemeth, Otto R., Chicago, Ill. Vertical adjustment device. 2,431,669; Nov. 25.
- Nemeth, Otto R., Chicago, Ill., assignor, by mesne assignments, to Helene Curtis Industries, Inc. Film shoe. 2,422,310; June 17.
- Nemeth, Otto R., Chicago, Ill., assignor, by mesne assignments, to Helene Curtis Industries, Inc. Adjustable hair drier. 2,422,311; June 17.
- Nemeth, Otto R., Chicago, Ill., assignor, by mesne assignments, to Helene Curtis Industries, Inc. Apparatus for dressing and drying hair. 2,423,252; July 1.
- Nemeth, Otto R., Chicago, Ill., assignor, by mesne assignments, to Helene Curtis Industries, Inc. Film gate. 2,427,327; Sept. 9.
- Nemeth, Otto R., Chicago, Ill., assignor, by mesne assignments, to Helene Curtis Industries, Inc. Motion-picture film actuating mechanism. 2,427,568; Sept. 16.
- Nemeth, Otto R., Chicago, Ill., assignor, by mesne assignments, to Helen Curtis Industries, Inc. Adjustable lens mount. 2,428,719; Oct. 7.
- Nemeth, Stephan P., Chicago, Ill. Helicopter rotor vane for balancing side thrust of antitorque devices. 2,418,274; Apr. 1.
- Nennring, Lester F., and F. A. Hassman, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Milling machine indicating dial. 2,416,539; Feb. 25.
- Nepheline Products Limited, assignee: *See*—  
Archibald, Frederick R.
- Neracher, Carl A., and W. T. Dunn, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,426,234; Aug. 26.
- Neracher, Otto: *See*—  
Martin, Henry, Häfliger, and Neracher.  
Martin, Henry, and Neracher.
- Nergaard, Leon S., Princeton, N. J., assignor to Radio Corporation of America. Electron discharge device employing a cavity resonator. 2,431,273; Nov. 18.
- Nerlinger, Ludwig F., Marshalltown, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of cadmium seleno-cyanide. 2,419,027; Apr. 15.
- Nesbitt, Ethan A., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Permanent magnet materials. 2,427,018; Sept. 9.
- Nessler, Floyd G., Rocky River, and C. E. Penoyer, Garfield Heights, assignors to The Sherwin-Williams Company, Cleveland, Ohio. Modifying drying oils. 2,425,200; Aug. 5.
- Nesson, Israel, assignor to M. Zaiger, Swampscott, Mass. Windshield wiper arm. 2,417,991; Mar. 25.
- Nestle, Robert F.: *See*—  
Schultz, Oswald R., Nestle, and Romano.
- Nestos, George: *See*—  
Combs, James L., and Nestos.
- Nethercutt, Jack B., Santa Monica, Calif. Combined cigarette package holder and match receptacle. 2,418,658; Apr. 8.
- Nettel, Frederick, Manhasset, N. Y. Operating internal combustion engines. 2,420,325; May 13.
- Nettel, Frederick, Manhasset, and J. Kreitner, New York, N. Y. Multiple temperature air supply arrangement for hot air power plant furnaces. 2,420,335; May 13.
- Nettles, John C.: *See*—  
Collins, John H., and Nettles.
- Netzhammer, Harry F.: *See*—  
Corbin, Fred A., and Netzhammer.
- Neufeld, Leonard C., Des Moines, Iowa. Stoker apparatus. 2,425,339; Aug. 12.
- Neugebauer, Franz: *See*—  
Mülleijans, Paul, and Neugebauer.
- Neuland, Alfons H., Jersey City, N. J. Fluid pressure engine. 2,421,846; June 10.
- Neuman, Arthur O., San Antonio, Tex. Reinforced concrete stave mold. 2,429,892; Oct. 28.
- Neuman, Chaim J., London, England. Detachable pipe joint. 2,430,730; Nov. 11.
- Neuman, Donald A., Minneapolis, Minn. Sanitary dispenser for roll paper. 2,416,115; Feb. 18.
- Neumann, Arthur E., Wilmette, Ill. Bubble pipe. 2,426,895; Sept. 2.
- Neumann, George R., St. Clair Shores, E. F. Farrell, Grosse Point Woods, and C. S. Davis, Jr., Detroit, Mich., assignors to Borg-Warner Corporation, Chicago, Ill. Heat exchange assembly. 2,420,757; May 20.
- Neumann, Hans: *See*—  
Dannöhl, Walter, and Neumann.
- Neumann, Henry T., New York, N. Y. Non-congealing starch product and the like and inhibitor therefor, and preparing the inhibitor. 2,417,515; Mar. 18.
- Neumann, Henry T., assignor to Spectrum Products Company, Inc., New York, N. Y. Producing colored photographic images. 2,417,514; Mar. 18.
- Neumann, John, Chicago, Ill., assignor to Alpha Cellulose Corporation, Van Wert, Ohio. Pulp washer. 2,430,135; Nov. 4.
- Neunuebel, Edward C., Union, Mo. Shoe construction. 2,417,776; Mar. 18.
- Neuschotz, Robert, Los Angeles, Calif. Expanding perlite and like substances. 2,421,902; June 10.
- Neuschotz, Robert, Los Angeles, Calif. Expanding perlite. 2,431,884; Dec. 2.
- Neville Company, The, assignee: *See*—  
Geiger, Lyle M., and Beck.
- Neville, Harvey A., and T. G. Harris, Bethlehem, Pa., assignors to Devco & Reynolds Company, Inc. Production of artificial bristles. 2,426,896; Sept. 2.
- Nevin, Donald A., Cleveland Heights, Ohio. Card punching machine. 2,414,547; Jan. 21.
- Nevison, John A., Lansdowne, assignor to The Atlantic Refining Company, Philadelphia, Pa. Chlorination of isopropylbenzenes. 2,430,822; Nov. 11.
- New, Archibald A.: *See*—  
Warner, Arthur J., and New.
- New, Archibald A., S. G. Foord, and D. R. Beckwith, London W. C. 2, England, assignors to International Standard Electric Corporation. Electric insulating tape. 2,421,640; June 3.
- New, Francis H. M., Taylors, S. C. Thread drier having radiant heater and automatic control means. 2,420,399; May 13.
- Newbern, Perry A., Greene, Iowa. Electric fence bracket. 2,429,029; Oct. 14.
- Newbery, George, Hutton Mount, England, assignor, by mesne assignments, to Merck & Co. Inc., Rahway, N. J. 2 - (p - amino - benzenesulfonamido) - 4 - methyl - 5 - hydroxyethyl thiazole. 2,433,388; Dec. 30.
- Newbery, George, Brentwood, and A. P. T. Esson, Hornchurch, assignors to May & Baker, Limited, Dagenham, Essex, England. Soluble amidine salts. 2,424,325; July 22.
- Newbill, Carl V., Portland, Oreg. Slat clasp for Venetian blinds. 2,421,160; May 27.
- Newbould, Maurice G. R., London, S. W. 1, assignor to Papercrete Limited, London, England. Apparatus for producing seamless hollow bodies of felted fibrous material. 2,417,375; Mar. 11.
- Newby, Roy E., Modesto, Calif. Releasable fluke anchor. 2,415,605; Feb. 11.
- New Castle Products, assignee: *See*—  
Brenner, Ray A.
- Ditzler, John N., and C. and H. D. Oberdorfer.
- Newcomb, Philip P., Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Vibration damper. 2,427,505; Sept. 16.
- Newcombe, Frank A., Nutley, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Terminal assembly. 2,414,604; Jan. 21.
- Newcomer, Benjamin F., Washington, D. C. Combined steam and combustion gas turbine. 2,416,942; Mar. 4.
- Newcomer, Everett J., Kew Gardens, assignor to City Vending Equipment Corporation, Maspeth, N. Y. Coin contact and release relay assembly. 2,430,408; Nov. 4.
- Newell, Frederick T., Bradford, Pa., assignor to Dresser Industries, Inc. Adjustable pipe clamp. 2,415,753; Feb. 11.
- Newell, George K., near Pitcairn, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Control apparatus. 2,417,211; Mar. 11.
- Newell, George K., near Pitcairn, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Hot journal alarm apparatus. 2,420,968; May 20.
- Newell, George K., near Pitcairn, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Hot journal alarm apparatus. 2,420,969; May 20.
- Newell, Heber L., Bridgeport, Conn., assignor to General Electric Company. Automatic toaster with variable draft. 2,414,325; Jan. 14.
- Newell, Heber L., Bridgeport, Conn., assignor to General Electric Company. Control means for pressure cookers and the like. 2,422,974; June 24.
- Newell, Norman A., Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Reciprocal signaling trunk telephone system. 2,422,700; June 24.
- Newell, Robert E., Irwin, Pa. Automatic gas safety shutoff. 2,426,786; Sept. 2.
- Newell, William H., New York, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Synchronizing control for motion reproducing devices. 2,427,154; Sept. 9.
- Newhall, Almer M., Jr.: *See*—  
Drieschman, Donald F., Shepherd, Rabinawitz, Newhall, and Sorg.
- Newhall, Carl A., Peabody, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Work channeling device for sewing machines. 2,417,516; Mar. 18.
- Newhouse, Russell C., Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Altitude guiding system for aircraft. 2,416,342; Feb. 25.
- Newhouse, Russell C., Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Distance measuring system. 2,426,232; Aug. 26.



- Newhouse, Simeon E., Edgewood, and W. H. Eunson, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Doubly-fed repulsion motor control system. 2,424,326; July 22.
- Newhouse, Walter F., Benton Harbor, Mich. Collapsible crate. 2,419,026; Apr. 15.
- New Jersey Machine Corporation, assignee: *See*—von Hofe, George W.
- New Jersey Shipbuilding Corporation, assignee: *See*—Harris, Frederic R.
- New Jersey Zinc Company, The, assignee: *See*—Boyle, Edward J., and Anderson, Leisy, Reuben W. Mahler, George I. Rodda, John L.
- Newkirk, John R., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Spring return push door with door lock. 2,419,964; May 6.
- Newman, Albert J., Kenmore, N. Y., assignor to Curtiss-Wright Corporation. Machine for testing and marking parts magnetically. 2,432,786; Dec. 16.
- Newman, Carl A., Irondequoit, N. Y. Liquid dispensing device. 2,432,923; Dec. 16.
- Newman, Douglas A., Port Washington, assignor to Columbia Ribbon and Carbon Manufacturing Company, Inc., Glen Cove, N. Y. Preparing hectographic ink. 2,424,954; July 29.
- Newman, John E., Cirencester, assignor of two-thirds to D. S. Kennedy, Andover, England. Grass drying apparatus. 2,418,089; Mar. 25.
- Newman, John M., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Motor control for hoists. 2,421,080; May 27.
- Newman, Joseph M., Weston, Ontario, Canada. Vegetable and fruit comminuting device. 2,417,564; Mar. 18.
- Newman Manufacturing Company, assignee: *See*—Merrick, Layton T.
- Newman, Max M., New York, N. Y. Shirt collar shaping device. 2,426,519; Aug. 26.
- Newman, Max M., New York, N. Y. Hair curler. 2,429,135; Oct. 14.
- Newman, Max M. and V. M., New York, N. Y. Necktie. 2,420,054; May 6.
- Newman, Milo S., assignee, et al., trustee: *See*—Melrose, Adolph E.
- Newman, Milton, Philadelphia, Pa. Separable rug construction. 2,432,485; Dec. 9.
- Newman, Raymond J., U. S. Navy. Cylinder testing method. 2,415,108; Feb. 4.
- Newman, Victor M.: *See*—Newman, Max M. and V. M.
- Newman, Walter J., assignor to Marvel Engineering Company, Chicago, Ill. Filter. 2,413,991; Jan. 7.
- Newman, William E., Moorestown, N. J., assignor to Radio Corporation of America. Pulse translating mechanism. 2,417,876; Mar. 11.
- Newman, William E., Moorestown, N. J., assignor to Radio Corporation of America. Reproducing head for magnetic telegraphones. 2,423,339; July 1.
- Newman, William E., Moorestown, N. J., assignor to Radio Corporation of America. Tapered magnetic core. 2,427,872; Sept. 23.
- Newman, William J., East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Method of and apparatus for consolidating refractory metal powder to dense coherent form. 2,431,691; Dec. 2.
- Newmark, Marshall F., Tucson, Ariz. Teething aid. 2,421,574; June 3.
- Newport Industries, Inc., assignee: *See*—Palmer, Robert C.
- New Products Corporation, assignee: *See*—Banker, Oscar H.
- Newsom, Chelcie H., Kansas City, Mo. Circular row marker and cultivator. 2,419,085; Apr. 15.
- Newsom, Kitchener K., San Francisco, Calif. Food process. 2,425,117; Aug. 5.
- Newsome, James W., Belleville, Ill., assignor to Aluminum Company of America, Pittsburgh, Pa. Cleaning filter cloth. 2,414,326; Jan. 14.
- Newton, Alwin B., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Hot gas defrosting. 2,433,574; Dec. 30.
- Newton, Carl E., Shaker Heights, Ohio, assignor to The Chesapeake and Ohio Railway Company. Convertible railway car. 2,419,498; Apr. 22.
- Newton, Frank H., assignee: *See*—Lea, Walter A.
- Newton, Geoffrey, London, W. C. 2, England, assignor to International Standard Electric Corporation, New York, N. Y. Remote control system for step-by-step adjustment of variable impedances. 2,433,389; Dec. 30.
- Newton, Herman S., Temple, Tex. Sanding belt machine. 2,416,493; Feb. 25.
- Newton, John C., Garden City, N. Y., assignor to Sperry Gyroscope Company, Inc. Craft control apparatus. 2,429,642; Oct. 28.
- Newton, John E., Oklahoma City, Okla. Locking device. 2,425,262; Aug. 5.
- Newton, Phillip S., assignor of one-half to P. A. Peters, Oakland, Calif. Method and apparatus for determining the eye color reflex sensation. 2,425,821; Aug. 19.
- Newton, Ray F.: *See*—Carscallen, Henry M., and Newton, Curle, Charles W., Curle, and Newton.
- Newton, Roger H., Bowling Green, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Production of aviation gasoline. 2,424,997; Aug. 5.
- Newton, Roger H., Bowling Green, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Production of aviation base fuel. 2,426,233; Aug. 26.
- Newton, Roger H., Bowling Green, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Production of motor fuels. 2,432,537; Dec. 16.
- Newton, Sir I., Vernal, Utah. Animal trap. 2,429,367; Oct. 21.
- New Wrinkle, Inc., assignee: *See*—Waldie, William A. Williams, Gordon M.
- New York Air Brake Company, The, assignee: *See*—Elsworth, John V. V. Groves, Martin V. Huber, Matthew W. Laird, Alton W. Pickert, Lynn I.
- New York Association for the Blind, Incorporated, The, assignee: *See*—McCormack, Leonard J.
- Ney, Edward P.: *See*—Nier, Alfred O. C., Ney, and Inghram.
- Neys, Joseph L.: *See*—Smith, William G., and Neys.
- Niagara Alkali Company, assignee: *See*—Blume, Paul W., Thomas, and Baillio, Casciani, Ferri.
- Niagara Machine and Tool Works, assignee: *See*—Munschauer, Frederick E.
- Niagara Searchlight Company, assignee: *See*—Sherwood, Lewis G., and Wohler.
- Wohler, Charles E., and Sherwood.
- Nicholas, Albert, Philadelphia, Pa. Combination of telephone stand, chair, and screen. 2,430,241; Nov. 4.
- Nicholas, Alex, Little Falls, N. Y. Auxiliary bearing and brake actuating means for railway cars. 2,428,720; Oct. 7.
- Nicholas, William, U. S. Army, Chicago, Ill. Fusion projectile. 2,417,437; Mar. 18.
- Nicholl, Leonard: *See*—Bitler, William P., and Nicholl.
- Nicholls, Earl P., North Hollywood, Calif., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Tube clamp. 2,416,063; Feb. 18.
- Nicholls, Edwin A., Alcoa, Tenn., assignor to Aluminum Company of America, Pittsburgh, Pa. Cooling ingots in continuous casting. 2,414,269; Jan. 14.
- Nichols, Charles R., McAllen, Tex., and S. H. Williston, Aberdeen, Wash., assignors to Sperry-Sun Well Surveying Company, Philadelphia, Pa. Electrical prospecting apparatus. 2,428,034; Sept. 30.
- Nichols Engineering & Research Corporation, assignee: *See*—Connolly, George E.
- Nichols, Frederick A., Stratford, assignor to Rx Scale Manufacturing Company, Inc., New Haven, Conn. Weighing mechanism. 2,433,291; Dec. 23.
- Nichols, Gordon E.: *See*—Cross, Carroll N., and Nichols.
- Nichols, Harry J., Binghamton, N. Y. Fuse. 2,420,612; May 13.
- Nichols, Harry J., Binghamton, N. Y. Propeller. 2,423,400; July 1.
- Nichols, Harry J., Binghamton, N. Y. Fuse. 2,428,380; Oct. 7.
- Nichols, Harry J., New York, N. Y. Projectile. 2,422,559; June 17.
- Nichols, Harry J., New York, N. Y. Armor-piercing drop bomb. 2,422,920; June 24.
- Nichols, Harry J., assignor to International Business Machines Corporation, New York, N. Y. Tape punch. 2,432,787; Dec. 16.
- Nichols, Leo A.: *See*—Eniti, Ernest B., and Nichols.
- Nichols, Leonard E., Birmingham, assignor to Resistance Welder Corporation, Bay City, Mich. Welding machine. 2,426,280; Aug. 26.
- Nichols, Luke, Hood River, Oreg. Log bundling apparatus. 2,417,658; Mar. 18.
- Nichols, Okey E., Charleston, W. Va. Fork with stripping means. 2,430,242; Nov. 4.
- Nichols, Okey E., Charleston, W. Va., assignor to Marvin R. Wallace and W. G. Triplett, jointly. Machine for reciprocating and rotating churn dashers. 2,431,298; Nov. 18.
- Nichols, R. C., Corporation, assignee: *See*—Jaeger, Edward V., and Plympton.
- Nichols, Ralph G.: *See*—Morey, William E., and Nichols.
- Nichols, Samuel C.: *See*—Thompson, Donald C., Dodge, and Nichols.
- Nichols, Walter E., Milton, Mass., assignor to The Reece Corporation. Buttonhole sewing machine. 2,421,712; June 3.
- Nicholson, Ernest E., and R. B. Collins, assignors to Ilford Limited, Ilford, England. Photographic emulsions containing pseudocyanine dyes and 9-methyl thiocarbocyanine dyes. 2,430,072; Nov. 4.
- Nicholson, Madison G., Jr., Snyder, assignor to Colonial Radio Corporation, Buffalo, N. Y. Remote control of deflection in cathode-ray tubes. 2,422,975; June 24.



- Nicholson, Madison G., Jr., Snyder, assignor to Colonial Radio Corporation, Buffalo, N. Y. Noise reducer for amplitude modulation reception. 2,422,976; Jan. 24.
- Nicholson, Madison G., Jr., Snyder, assignor to Colonial Radio Corporation, Buffalo, N. Y. Vacuum tube circuit for operating relays. 2,428,125; Sept. 30.
- Nicholson, Madison G., Jr., Snyder, assignor to Colonial Radio Corporation, Buffalo, N. Y. Compensation for battery voltage changes in radio receivers. 2,432,033; Dec. 2.
- Nicholson, Madison G., Jr., Kenmore, assignor to Colonial Radio Corporation, Buffalo, N. Y. Duplex control circuit. 2,428,126; Sept. 30.
- Nickell, Arthur, Amelia, Ohio. Cow stanchion. 2,419,788; Apr. 29.
- Nickell, Guy N., Oakland, Calif. Cable serving device. 2,432,121; Dec. 9.
- Nickels, Joseph E., assignor to Koppers Company, Inc., Pittsburgh, Pa. Separation of alkyl and alkylene naphthalene isomers. 2,424,841; July 29.
- Nicol, John M., Mill Valley, assignor to G. G. Titzell, Jr., San Francisco, Calif. Reciprocating and rotating drum concentrator. 2,424,367; July 22.
- Nicolaus, Frank G., assignor to R. T. Moloney, Chicago, Ill. Full stroke latch for remote control. 2,418,598; Apr. 8.
- Nicolazzo, John, Bridgeport, Conn. Connector for conductor wires. 2,416,943; Mar. 4.
- Nicolette, Arthur P., Albany, Calif. Air eliminator. 2,425,070; Aug. 5.
- Nicoll, Frederick H., Princeton, N. J., assignor to Radio Corporation of America. Low reflection glass. 2,415,703; Feb. 11.
- Nicolls, Wilfrid E. W., Ealing, London, assignor to C. A. V. Limited, London, England. Fuel pump. 2,424,943; July 29.
- Nicolson, Alexander M., New York, N. Y. Wave sensitive and wave front detecting apparatus. 2,427,569; Sept. 16.
- Nieberding, H. H., assignee: *See*—Black, Mike.
- Niederer, Herbert O. and O. C., Titusville, N. J. Device for grading articles according to weight by step-by-step vibrationless advancement over a plurality of scales. 2,433,575; Dec. 30.
- Niederer, Otto C.: *See*—Niederer, Herbert O. and O. C.
- Niederhauser, Robert J.: *See*—Spiller, William R., and Niederhauser.
- Niederhauser, Warren D.: *See*—Bruson, Herman A., and Niederhauser.
- Niederl, Joseph B., Brooklyn, N. Y. Mercuriated-( $\alpha,\gamma,\gamma$ -tetramethyl) butyl-phenols. 2,415,754; Feb. 11.
- Niederl, Joseph B. and V., and M. E. McGreal, Brooklyn, N. Y. N,N-dialkyl morpholinium alkyl-sulfates. 2,417,992; Mar. 25.
- Niederl, Victor: *See*—Bloom, Albert, and Niederl.
- Niederl, Joseph B. and V., and McGreal.
- Niekamp, Richard A.: *See*—Barrus, Paul B., and Niekamp.
- Nield, Leslie C., Glossop, assignor to Tootal Broadhurst Lee Company Limited, Manchester, England. Method and apparatus for the straightening of the wefts of woven textile fabrics. 2,421,575; June 3.
- Nielsen, A. C., Company, assignee: *See*—Rusch, Hugo L.
- Nielsen, Albert V., Minneapolis, Minn. Fluid heated cooking utensil. 2,431,193; Nov. 18.
- Nielsen, Andreas C., East Cleveland, Ohio. Combination lathe tool. 2,430,823; Nov. 11.
- Nielsen, Erik R., assignor to The Quaker Oats Company, Chicago, Ill. Catalytic oxidation of furfural. 2,421,428; June 3.
- Nielsen, Joseph N., assignee: *See*—Peterson, Thomas F.
- Nielsen, Morris L.: *See*—Holt, Matthew L., and Nielsen.
- Nielsen, Morris L., Anniston, Ala., assignor to Monsanto Chemical Company. Production of ferric orthophosphate. 2,414,974; Jan. 28.
- Nielson, Frederick, Quincy, Mass. Camber adjusting tool. 2,425,556; Aug. 12.
- Niemann, Lee L., Chicago, Ill. Grinding apparatus. 2,414,056; Jan. 7.
- Niemann, Walter A., Chicago, Ill. Hydraulic coupling or fluid pump. 2,427,570; Sept. 16.
- Niemiec, Andrew S.: *See*—Bassett, John A., and Niemiec.
- Nier, Alfred O., New York, N. Y., E. P. Ney, Charlottesville, Va., and M. G. Inghram, New York, N. Y., assignors to the United States of America, as represented by the Director of the Office of Scientific Research and Development. Adjustable capillary leak. 2,422,921; June 24.
- Nies, Abby W., Bound Brook, N. J., assignor to American Cyanamid Company, New York, N. Y. Diazo compounds of the pyrazolone series. 2,420,791; May 20.
- Nies, Abby W., Bound Brook, N. J., assignor to American Cyanamid Company, New York, N. Y. Chromium complexes of 1-phenyl-5-methyl-3-pyrazolone azo compounds. 2,432,034; Dec. 2.
- Niesner, Charles J., Dawson, N. Dak. Shoe rack. 2,415,518; Feb. 11.
- Nigg, Clara: *See*—Bunney, William E., and Nigg.
- Nigg, Clara, Princeton, N. J., assignor to E. R. Squibb & Sons, New York, N. Y. Antigens and preparing them. 2,417,777; Mar. 18.
- Nikitin, Alexander A., Copperhill, Tenn., assignor to Tennessee Copper Company, New York, N. Y. Copper fungicides and producing same. 2,414,660; Jan. 21.
- Nikitin, Alexander A., Copperhill, Tenn., assignor to Tennessee Copper Company, New York, N. Y. Copper fungicides and producing same. 2,414,661; Jan. 21.
- Nikolaiczuk, Nikolai: *See*—McFarlane, William D., and Nikolaiczuk.
- Niles-Bement-Pond Company, assignee: *See*—Barr, John M.
- Nicholson, Milton E., Gilbert, Stanley W., Lee, Leighton, II, Shaw, John C.
- Nilson, Stanley E., assignor to Fiat Metal Manufacturing Co., Chicago, Ill. Shower cabinet. 2,423,722; July 8.
- Nilsson Gage Company, Inc., assignee: *See*—Nilsson, John C.
- Nilsson, John C., Hyde Park, assignor to Nilsson Gage Company, Inc., Poughkeepsie, N. Y. Bore gauge. 2,424,497; July 22.
- Nilsson, Nils A. H., and A. H. G. Dahlbom, assignors to Aktiebolaget C. E. Johansson, Eskilstuna, Sweden. Sealing adjustable pivots for rotatable bodies. 2,430,136; Nov. 4.
- Nineteen Hundred Corporation, assignee: *See*—Geldhof, Peter E., and Ringer.
- Ninnis, Harry, Clifton, and K. L. Johansson, Hackensack, N. J., assignors to Wright Aeronautical Corporation. Torque meter. 2,428,920; Oct. 14.
- Nisbet, Alexander R., Sr., San Angelo, Tex. Cotton plant deleaser. 2,427,155; Sept. 9.
- Nisbet, Robert H., Osterley, England, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Electrically controlled servo system. 2,414,430; Jan. 14.
- Nisbet, Robert H., Stroud, and W. G. Harding, Whitton, assignors to The Sperry Gyroscope Company, Limited, Brentford, England. Device responsive to the rate of turn of a craft. 2,431,706; Dec. 2.
- Nisenson, Jules, and M. Blazer, assignors to Publix Metal Products Inc., New York, N. Y. Venetian blind tilt-bar support. 2,414,548; Jan. 21.
- Nishizaka, Yuriko, Brooklyn, N. Y., and J. Teruya, Hartford, Conn. Bottle cleaner conformable to shape of bottle. 2,432,924; Dec. 16.
- Niskanen, John F., Detroit, Mich. Clothes hanger. 2,422,845; June 24.
- Nissen, Henry C., Stratford, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Clutch mechanism. 2,420,995; May 20.
- Nist, Edward C.: *See*—Campbell, Joseph A., Jr., and Nist.
- Nitralloy Corporation, The, assignee: *See*—Loevenstein, Hersch.
- Nitzberg, Morris, Philadelphia, Pa. Dress. 2,425,635; Aug. 12.
- Niver, Joseph, Ossining, N. Y. Article of furniture. 2,425,263; Aug. 5.
- Nixon, Abner M., Jr., Columbus, Ohio. Combined cigarette case and ash receiver. 2,418,188; Apr. 1.
- Nixon, Alan C., and O. L. Davis, Oakland, assignor to Shell Development Company, San Francisco, Calif. Production of hydrocarbons. 2,425,340; Aug. 12.
- Nixon, Jeddy D., New Braunfels, Tex. Apparatus for lifting fluids. 2,418,788; Apr. 8.
- Nobelt, Inc., assignee: *See*—Hardie, Harry.
- Noble, Charles S., assignor to Noble Farms Limited, Nobleford, Alberta, Canada. Cultivating element and carrier therefor. 2,432,035; Dec. 2.
- Noble, Edson J., deceased, Shaker Heights, Ohio, M. M. Noble, executrix. Artificial horizon. 2,422,120; June 10.
- Noble Farms Limited, assignee: *See*—Noble, Charles S.
- Noble, Marion M., executrix: *See*—Noble, Edson J.
- Noble, Max V., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyvinyl alcohol film. 2,419,281; Apr. 22.
- Noble, Ross A., Detroit, Mich. Apparatus for performing machine operations. 2,413,992; Jan. 7.
- Noble, Roy A., Buffalo, N. Y. Scaffold. 2,420,903; May 20.
- Noble, Warren, assignor to The Cleveland Worm & Gear Company, Cleveland, Ohio. Drive motor support. 2,414,975; Jan. 28.
- Noblitt-Sparks Industries, Inc., assignee: *See*—Booth, Earl C.
- Noe, Harold C., Upper Montclair, assignor to Bloomfield Tool Corporation, Bloomfield, N. J. Film holder. 2,414,481; Jan. 21.
- Noel, Edward B., Cleveland Heights, Ohio, assignor to General Electric Company. Lamp base and holder. 2,415,902; Feb. 18.
- Noel, Edward B., Cleveland Heights, Ohio, assignor to General Electric Company. Multiple flash lamp unit. 2,427,736; Sept. 23.



- Noel, Edward B., Cleveland Heights, Ohio, assignor to General Electric Company. Electric discharge device. 2,427,737; Sept. 23.
- Noell, Milton J., Dallas, Tex. Guiding projectiles toward predetermined destinations and for ascertaining the positions of the destinations. 2,418,137; Apr. 1.
- Nofzinger, Earl E., assignor, by mesne assignments, to Gibson Refrigerator Company, Greenville, Mich. Refrigerator cabinet. 2,416,017; Feb. 18.
- Noguera, Joseph, assignor to Casablancas High Draft Company Limited, Manchester, England. Weighting motions for the drafting rollers of preparatory and spinning machines. 2,425,264; Aug. 5.
- Noguera, Joseph, assignor to Casablancas High Draft Company Limited, Manchester, England. False twist tube for use in preparatory and spinning machines. 2,430,944; Nov. 18.
- Nolan, John J., Jr., assignor to The Central Foundry Company, New York, N. Y. Centrifugal casting apparatus. 2,414,890; Jan. 28.
- Nolan, Kenneth G., and I. Hechenbleikner, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Seed and plant disinfectants. 2,419,888; Apr. 29.
- Nolan, Kenneth W., East Perth, Western Australia, Australia. Relief valve. 2,416,205; Feb. 18.
- Noland, Thomas T.: *See*—  
Denton, William L., Bishop, Nygaard and Noland.  
Goodloe, Paul M., II, and Noland.
- Noland, Thomas T., Richmond, Ky., assignor to Socony-Vacuum Oil Company, Incorporated. Mineral oil composition. 2,419,584; Apr. 29.
- Nolde and Horst Company, The, assignee: *See*—  
Simmat, Eric.
- Noll, Henry D.: *See*—  
Lee, Russell, Noll, and Kalichevsky.
- Noll, Henry D., Denville, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Conversion of hydrocarbons. 2,420,904; May 20.
- Noma Electric Corporation, assignee: *See*—  
Trautner, Wagn.
- Nopco Chemical, assignee: *See*—  
Briod, André E., and Buxton.  
Buxton, Loran O.  
Buxton, Loran O., and Dryden.  
Buxton, Loran O., and Lipsius.  
Miskel, John J.  
Retzsch, Clinton E., and Lighthipe.  
Robinson, Edwin A., and Kelley.  
Sprules, Francis J., and Griffith.
- Nopco Chemical Company, assignee: *See*—  
Buxton, Loran O.  
Davis, Gifford D., and Barth.  
Licata, Francis J.
- Norberg, Harold, Detroit, and H. Smith, Pleasant Ridge, assignors to Plan-O-Mill Corporation, Hazel Park, Mich. Tap and holder therefor. 2,424,113; July 15.
- Norberg, Oscar E., Cincinnati, Ohio, assignor, by mesne assignments, to Gibson Refrigerator Company, Greenville, Mich. Hinge construction. 2,432,925; Dec. 16.
- Nord, Eric T., assignor to U. S. Automatic Corporation, Amherst, Ohio. Work-marking assembly for machine tools. 2,420,613; May 13.
- Nord, Eric T., assignor to U. S. Automatic Corporation, Amherst, Ohio. Sprocket chain gearing. 2,428,940; Oct. 14.
- Nord, Eric T., assignor to U. S. Automatic Corporation, Amherst, Ohio. Effecting varied milling operations upon metal workpieces. 2,435,145; Dec. 23.
- Norda Essential Oil & Chemical Company, Inc., assignee: *See*—  
Aeschbach, Max E.
- Nordberg, Charles H., Chicago Heights, Ill., assignor to Pettibone Mulliken Corporation. Car rerailer. 2,429,942; Oct. 28.
- Nordberg, Ernst A., Norwood, assignor, by mesne assignments, to T. Deutschmann, Canton, Mass. Winding electrical capacitors. 2,416,540; Feb. 25.
- Nordberg Manufacturing Company, assignee: *See*—  
Barr, Richard E.  
Friend, Robert E.  
Grieshaber, Emil, and Johnson.  
Talboys, Henry H.
- Nordell, Carl H., Chicago, Ill., assignor to Inflico Incorporated. Traction drive for liquid treating apparatus. 2,418,189; Apr. 1.
- Norden, Carl L., and T. H. Barth, New York, N. Y., assignors to United States of America, as represented by the Secretary of the Navy. Bomb sight. 2,428,678; Oct. 7.
- Norden Laboratories Corporation, The, assignee: *See*—  
Coulbourn, William C.
- Nordgren, Elmer E., and R. W. Hagenstad, Minneapolis, Minn. Rotary buffing tool. 2,423,992; July 15.
- Nordin, Charles E., Comox, British Columbia, Canada. Log carrier. 2,420,792; May 20.
- Nordling, Selma, Pasadena, Calif. Chest and shoulder protector. 2,420,091; May 6.
- Nordquist, Ronald E. J., Maplewood, N. J., assignor to American Can Company, New York, N. Y. Filling machine. 2,415,109; Feb. 4.
- Nordstrum, Gertrude O., administratrix: *See*—  
Nordstrum, Lauren D.
- Nordstrum, Lauren D., deceased, by G. O. Nordstrum, administratrix, Fort Wayne, Ind., assignor to General Electric Company. Liquid cooled dynamoelectric machine for absorbing energy. 2,428,634; Oct. 7.
- Noreyko, Nicholas, assignor to Eaton Manufacturing Company, Detroit, Mich. Gear element. 2,421,463; June 3.
- Norgaard, Donald E., Schenectady, N. Y., assignor to General Electric Company. Pulse control system. 2,427,687; Sept. 23.
- Norgaard, Donald E., Schenectady, N. Y., assignor to General Electric Company. Electrical translation apparatus. 2,427,688; Sept. 23.
- Norgaard, Donald E., Scotia, N. Y., assignor to General Electric Company. Locating equipment. 2,432,330; Dec. 9.
- Norgren, Eric K., Chicago, Ill., assignor, by mesne assignments, to United States Government, as represented by the Secretary of War. Making metallic cartridge belt links. 2,420,147; May 6.
- Norin, Allan A., and F. D. Reynolds, Chicago, Ill., assignor to Gaylord Products, Incorporated. Hair curler. 2,415,840; Feb. 18.
- Norlin, Clarence F., Chicago, Ill. Splash shield. 2,416,944; Mar. 4.
- Norman, Emile, El Monte, Calif. Producing decorative effect on plastic. 2,420,614; May 13.
- Norman, John E., assignee: *See*—  
James, Joseph R., and Keyzer-André.
- Norman, John H., Elmhurst, Ill. Clothes stick. 2,413,776; Jan. 7.
- Norman, John H., Elmhurst, Ill. Cake cutter and server. 2,417,172; Mar. 11.
- Norman, Kelso, San Francisco, Calif. Electric soldering iron. 2,414,482; Jan. 21.
- Norman, Richard M.: *See*—  
Ernst, Walter, and Norman.
- Norman, Richard M., Mount Gilead, Ohio, assignor to H-P-M Development Corporation, Wilmington, Del. Special pump control and control system. 2,431,071; Nov. 18.
- Norris Brothers, Inc., assignee: *See*—  
Norris, David L., Sr., and Cundiff.
- Norris, David L., Sr., and W. N. Cundiff, assignors to Norris Brothers, Inc., Greenville, S. C. Picker stick for looms. 2,419,086; Apr. 15.
- Norris, Edward O., Westport, Conn., assignor to Edward O. Norris, Inc., New York, N. Y. Producing mesh fabric stencils. 2,419,028; Apr. 15.
- Norris, Edward O., Inc., assignee: *See*—  
Norris, Edward O.
- Norris, George W., Jasper, Ala. Bridle. 2,415,903; Feb. 18.
- Norris, Lessie E., Atlanta, Ga. Blood extractor. 2,421,959; June 10.
- Norstrom, Joseph, and A. L. Smith, assignors to Muskegon Machine Company, Newburgh, N. Y. Fluid pressure operated brake and adjustment therefor. 2,422,121; June 10.
- North Electric Manufacturing Company, assignee: *See*—  
Herbst, John A.
- North Electric Manufacturing Company, The, assignee: *See*—  
McBerty, Frank R.
- North, Gerald C., A. J. Alton, and L. Little, assignors to Beatrice Creamery Company, Chicago, Ill. Shortening. 2,431,497; Nov. 25.
- North, Gerald C., A. J. Alton, and L. Little, assignors to Beatrice Creamery Company, Chicago, Ill. Shortening. 2,431,498; Nov. 25.
- North, James E., Warrenville, assignor to Sears, Roebuck and Co., Chicago, Ill. Ignition device for oil burners. 2,415,519; Feb. 11.
- North American Aviation, Inc., assignee: *See*—  
Beach, William, Whann, and Peterson.  
Trich, Henry C.  
Ulrich, Charles J., and Weissenberger.
- North American Rayon Corporation, assignee: *See*—  
Bley, Rudolph S.  
Gram, Carl F.  
Graybeal, La Verne R.  
Naumann, Herbert.  
Naumann, Herbert O.
- Northcutt, Robert E., Kansas City, Mo., assignor of one-half to M. Y. Wiber. Umbrella holder. 2,426,113; Aug. 19.
- Northern Indiana Brass Company, assignee: *See*—  
Arbogast, Alfred C.
- Northern Patent Developments, Limited, assignee: *See*—  
Bartlett, Benson G. W.
- Northern Pump Company, The, assignee: *See*—  
Brown, Garfield.  
Randolph, Harrison, and Kane.
- Northern Trust Company, The, executor: *See*—  
Durdin, Augustus C., Jr.  
Durdin, Augustus C., III.
- Northey, Elmore H.: *See*—  
Hultquist, Martin E., and Northey.
- Northey, Elmore H., Bound Brook, N. J., assignor to American Cyanamid Company, New York, N. Y. Producing 4-hydroxy pyrimidines. 2,417,318; Mar. 11.
- Northey, Elmore H., and M. E. Hultquist, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. (N'-alkylpiperazino) alkanol esters. 2,419,366; Apr. 22.



- Northrop Aircraft, Inc., assignee: *See*—  
 Pavlecka, Vladimir H.  
 Pavlecka, Vladimir H., and Northrop.  
 Sears, Williams R.
- Northrop-Hendy Company, assignee: *See*—  
 Phelan, Arthur J., Walden, and McGaffey.
- Northrop, John K.: *See*—  
 Pavlecka, Vladimir H., and Northrop.
- Northrup Aircraft, Inc., assignee: *See*—  
 Ashkenas, Irving L., and Krieger.
- Northrup King & Co., assignee: *See*—  
 Davies, Walter R.
- Northwestern Glass Company, assignee: *See*—  
 Roessler, Gordon W., and Chilcote.
- Northwestern Steel and Wire Company, assignee: *See*—  
 Davis, Ronald F.
- Norton, Arthur J., Seattle, Wash., assignor to Pennsylvania Coal Products Company, Petrolia, Pa. Production of heat-reactive resinous products. 2,414,417; Jan. 14.
- Norton, Calhoun, assignor to Arens Controls, Inc., Chicago, Ill. Transmission cable structure. 2,416,206; Feb. 18.
- Norton Company, assignee: *See*—  
 Beecher, Milton F.  
 Flygare, Carl G., and Alvord.  
 Garside, John I.  
 Green, Clarence J.  
 Hill, Oliva E.  
 Holter, Norman F.  
 Howe, Wallace L., and Washburn.  
 Kistler, Samuel S.  
 Kistler, Samuel S., and Coes.  
 Ridgway, Raymond R.  
 Silven, Herbert A.  
 Van der Pyl, Edward.
- Norton, Frank R., Chatham, and D. H. Schell, Morristown, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Pulse-type position indicator. 2,433,002; Dec. 23.
- Norton, George B.: *See*—  
 Norton, Ronald M. and G. B.
- Norton, Howard E., Baltimore, and J. R. Bond, Colura, Md. Oil smoke generator. 2,423,847; July 15.
- Norton, James F.: *See*—  
 Snyder, Jacob R., and Norton.
- Norton, Leland D., Fairfield, Conn., assignor to Dictaphone Corporation, New York, N. Y. Electric phonograph. 2,425,486; Aug. 12.
- Norton, Lowell E., Collingswood, N. J., assignor to Radio Corporation of America. Radio direction finding. 2,422,122; June 10.
- Norton, Lowell E., Princeton, N. J., assignor to Radio Corporation of America. Direction finder. 2,422,123; June 10.
- Norton, Lowell E., Princeton, N. J., assignor to Radio Corporation of America. Direction finder. 2,425,385; Aug. 12.
- Norton, Lowell E., Princeton, N. J., assignor to Radio Corporation of America. Direction finder. 2,425,386; Aug. 12.
- Norton, Lowell E., Princeton, N. J., assignor to Radio Corporation of America. Direction finder. 2,425,387; Aug. 12.
- Norton, Lowell E., Princeton, N. J., assignor to Radio Corporation of America. Direction finder. 2,432,926; Dec. 16.
- Norton, Marjorie, Clayton, assignor to Kay Frerer, Inc., St. Louis, Mo. Lady's garment. 2,428,175; Sept. 30.
- Norton, Ralph B., assignor to The Kerite Company, Seymour, Conn. High-voltage cable. 2,415,652; Feb. 11.
- Norton, Robert L.: *See*—  
 Murdock, Clayton E., and Norton.
- Norton, Ronald M., Tivdale, Tipton, England. Retarded float control mechanism for coal washing jigs. 2,421,576; June 3.
- Norton, Ronald M. and G. B., Tivdale, Tipton, England. Multifloat mechanism for controlling operation of coal washing jigs. 2,433,320; Dec. 23.
- Norton, Wayne G.: *See*—  
 Arnold, William A., and Norton.
- Norton, Wendell P., Torrington, Conn. Variable speed power transmission. 2,419,850; Apr. 29.
- Norvell, Benjamin E., Oak Creek, Ariz. Game or toy. 2,417,565; Mar. 18.
- Norwalk Lock Company, assignee: *See*—  
 Hines, John.
- Norway, Harold L., Evanston, assignor to The Bastian-Blessing Company, Chicago, Ill. Dispensing device with flow restrictor and frangible outlet closure. 2,423,792; July 8.
- Norwood, Charles W., Caldwell, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Indicator operating mechanism. 2,427,019; Sept. 9.
- Norwood, Harry C.: *See*—  
 Grisdale, George L., and Norwood.
- Nossiter, Clarence F.: *See*—  
 Charles, Hubert N., and Nossiter.
- Nosser, Gordon M., Highland, Calif. Perspective drawing instrument. 2,419,725; Apr. 29.
- Nostrup Inc., assignee: *See*—  
 Johnson, James M.
- Novadel-Agene Corporation, assignee: *See*—  
 Ingels, Bert D.
- Novak, Joseph, San Antonio, Tex. Perforated container for tamales. 2,433,622; Dec. 30.
- Novak, Joseph F.: *See*—  
 Eldredge, Jack, and Novak.
- Novak, Louis P., assignor to Thompson Products, Inc., Cleveland, Ohio. Making shrouded poppet valves. 2,415,606; Feb. 11.
- Noviss, William N., Toledo, Ohio. Piston packing. 2,431,957; Dec. 2.
- Novobax Limited, assignee: *See*—  
 Oyston, William K.
- Novotney, Frank A., assignor to Anthony Company, Streator, Ill. Elevator. 2,426,114; Aug. 19.
- Novotny, Charles K.: *See*—  
 Bosomworth, George P., and Novotny.  
 Edgar, Kenneth L., Stavely, and Novotny.
- Novotny, Charles K., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Making tire fabric. 2,415,023; Jan. 28.
- Nowak, Alois K., Evanston, assignor to Clearing Machine Corporation, Chicago, Ill. Crankshaft twisting machine. 2,414,549; Jan. 21.
- Nowak, Leon J., Jr., Chicago, Ill. Bag holder. 2,430,073; Nov. 4.
- Nowak, Milton, Brooklyn, N. Y., assignor to Nuodex Products Co., Inc., Elizabeth, N. J. Aryl polymercury naphthenates and their production. 2,423,044; June 24.
- Nowicke, Frank J., Hanover, Md. Electrode holder. 2,416,841; Mar. 4.
- Nowosielski, Edward B., Bloomfield, assignor to Edison-Splittdorf Corporation, West Orange, N. J. Supercharged magneto. 2,413,993; Jan. 7.
- Noxon, Paul A., Tenafly, assignor to Bendix Aviation Corporation, Teterboro, N. J. Automatic control system. 2,432,036; Dec. 2.
- Noyes, Harry A., Watertown, Mass. Concentrating coffee. 2,416,945; Mar. 4.
- Noyes, Harry A., Watertown, Mass. Making natural colored fruit juice. 2,419,909; Apr. 29.
- Noyes, Howard, Dayton, Ohio. Self-locking nut. 2,430,884; Nov. 18.
- Noyes, John, Jr., University City, Mo., assignor to The Curtiss-Wright Corporation. Actuating mechanism for aerodynamic surfaces. 2,422,035; June 10.
- Noyes, Stanley E., Los Angeles, Calif. Dental impression composition. 2,422,497; June 17.
- Noyes, Stanley E., Los Angeles, Calif. Dental impression composition. 2,424,895; July 29.
- Noyes, Stanley E., Los Angeles, Calif. Dental impression composition. 2,425,118; Aug. 5.
- Nuccio, Joseph, Chicago, Ill. Curtain rod. 2,420,005; May 6.
- Nudelman, Harry M. and L., Chicago, Ill. Necktie rack. 2,422,922; June 24.
- Nudelman, Louis: *See*—  
 Nudelman, Harry M. and L.
- Nuding, James M.: *See*—  
 Yockey, Hubert P., and Nuding.
- Nulty, William B., trustee, assignee: *See*—  
 Randall, Walter H.
- Nulty, William B., trustee, assignee, et al.: *See*—  
 Randall, Walter H.
- Nunes, Harry C., Honolulu, Hawaii. Trailer steering mechanism. 2,418,090; Mar. 25.
- Nuodex Products Co., Inc., assignee: *See*—  
 Minich, Arthur.  
 Nowak, Milton.  
 Roon, Leo.
- Nuproducs Corporation, assignee: *See*—  
 Smith, Roland L.
- Nurre Companies, Inc., assignee: *See*—  
 McDonald, William H.
- Nutt, Howard N., Detroit, Mich. Shipping crate for automobile motors. 2,428,500; Oct. 7.
- Nutter, Irvin E., Amarillo, Tex. Bubble cap. 2,428,889; Oct. 14.
- Nutter, William S., assignor to Goodall-Sanford, Inc., Sanford, Maine. Wool type fabric. Re. 22,878; May 13.
- Nutter, William S., assignor to Goodall-Sanford, Inc., Sanford, Maine. Worsted type of fabric. 2,416,116; Feb. 18.
- Nutter, William S., assignor to Goodall-Sanford, Inc., Sanford, Maine. Flat woven fabric and making the same. 2,417,319; Mar. 11.
- Nutter, William S., assignor to Goodall-Sanford, Inc., Sanford, Maine. Woven textile fabric. 2,417,320; Mar. 11.
- Nutting, Howard S., and L. H. Horsley, assignors to The Dow Chemical Company, Midland, Mich. Separation of hydrocarbons having different degrees of saturation. 2,414,761; Jan. 21.
- Nyborg, Tage G., assignor to one-half to The Mining Engineering Company Limited, Worcester, England. Mechanical loader. 2,422,977; June 24.
- Nydegger, George C., Los Angeles, Calif. Carton erecting apparatus. 2,426,115; Aug. 19.
- Nydegger, Roland R.: *See*—  
 Burrows, Lawton A., Loving, Nydegger, and Smith.
- Nyden, Robert, Manhasset, N. Y. Two-piece self-closing closure device. 2,418,659; Apr. 8.
- Nye, Norman H., Cuyahoga Falls, and W. E. Rogers, Stow, assignors to The Vaughn Machinery Company, Cuyahoga Falls, Ohio. Centrifugal control device. 2,426,840; Sept. 2.



- Nye-Walt Company, Inc., assignee: *See*—  
Schulz, Gustav E., and Fonda.
- Nygaard, Edwin M.: *See*—  
Denton, William I., Bishop, Nygaard, and Noland.
- Nygaard, Herman, East Orange, N. J., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Continuous magnetic recording system. 2,424,498; July 22.
- Nygren, Carl, assignor to Michiana Products Corporation, Michigan City, Ind. Centrifugal fan. 2,415,033; Jan. 28.
- Nygren, Carl, assignor to Michiana Products Corporation, Michigan City, Ind. High-temperature fan. 2,428,765; Oct. 7.
- Nygren, Charles E., Waterbury, Conn. Window sash control. 2,416,946; Mar. 4.
- Nyquist, Harry, Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical transmission system. 2,424,998; Aug. 5.
- Nysewander, Cecil W.: *See*—  
Fragen, Nathan, and Nysewander.
- Nystrom, Karl F., Nashotah, and V. L. Green, Milwaukee, Wis. Pedestal safety tie means. 2,424,327; July 22.
- Nystrom, Karl F., Nashotah, and V. L. Green, Milwaukee, Wis. Railway car truck spring mounting. 2,424,625; July 29.
- Nystrom, Karl F., Nashotah, and V. L. Green, Milwaukee, Wis. Railway car truck structure. 2,431,072; Nov. 18.
- Nystrom, Karl T., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Railway car structure. 2,430,243; Nov. 4.
- O. K. Rubber Welding System, assignee: *See*—  
French, Elby E.
- Oak Mfg. Co., assignee: *See*—  
Burrows, Frederick A.
- Ten Cate, Arthur C., and Agerell.
- Oakes, Carl J., Decatur, Ill. Stuffing box. 2,429,562; Oct. 21.
- Oakes, George W., Crystal City, Mo. Fountain pen filling device. 2,424,896; July 29.
- Oakes, George W., Rochester, Pa. Head and nasal clarifier. 2,426,281; Aug. 26.
- Oakley, Eugene H., El Cerrito, and L. F. Brooke, Berkeley, assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif. Hydrocarbon conversion. 2,413,777; Jan. 7.
- Oakley, Sterling A., Lincolnwood, Ill., assignor to Hot-point Inc. Apparatus for gaging and assorting bullet cores according to size and shape. 2,422,036; June 10.
- Obecny, John T., Los Angeles, Calif. Work holder. 2,415,520; Feb. 11.
- Obecny, John T., Los Angeles, Calif. Collet. 2,417,836; Mar. 25.
- Oberdick, Ervin O., Cleveland, Ohio. Circuit breaker and contact therefor. 2,424,626; July 29.
- Oberdorf, Elmer R.: *See*—  
Fruitt, John G., and Oberdorf.
- Oberdorf, George S. and T. J., Chula Vista, Calif. Retractable leash. 2,424,368; July 22.
- Oberdorf, Thelma J.: *See*—  
Oberdorf, George S. and T. J.
- Oberdorfer, Carol: *See*—  
Ditzler, John N., and C. and H. D. Oberdorfer.
- Oberdorfer, Henry D.: *See*—  
Ditzler, John N., and C. and H. D. Oberdorfer.
- Oberfell, George G., Bartlesville, Okla., assignor to Phillips Petroleum Company. Desulfurizing and reforming hydrocarbons. 2,419,029; Apr. 15.
- Oberfell, Louis, Brooklyn, N. Y. Key indicator. 2,418,046; Mar. 25.
- Obergfell, Amanda, executrix: *See*—  
Obergfell, Herbert F.
- Voss, John H., and Obergfell.
- Obergfell, Herbert F.: *See*—  
Voss, John H., and Obergfell.
- Obergfell, Herbert F., deceased, by A. Obergfell, executrix, River Forest, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Handset telephone mounting. 2,428,091; Sept. 30.
- Obermaier, John A., Chicago, Ill. Flexibly mounted thermocouple for measuring surface temperature. 2,422,124; June 10.
- Obermaier, John A., River Forest, Ill. Pyrometer. 2,425,557; Aug. 12.
- Obey, James H., Pittsburgh, Pa., assignor, by mesne assignments, of nine thousand four hundred and forty-eight thousand five hundred and seventieths to Chemprotin Products, Trenton, Mich., five hundred and sixty-one thousand five hundred and seventieths to L. Kormendi, New York, N. Y., and five hundred and sixty-one thousand five hundred and seventieths to B. C. Boeckeler, Grosse Ile, Mich. Gliadin suspensions and films. 2,430,885; Nov. 18.
- Obey, James H., Pittsburgh, Pa., assignor, by mesne assignments, of 9448/10570 to Chemprotin Products, Trenton, Mich., 561/10570 to L. Kormendi, New York, N. Y., and 561/10570 to B. C. Boeckeler, Grosse Ile, Mich. Recovery of gluten and products thereof. 2,431,417; Nov. 25.
- Oblad, Alex G., and E. Gorin, Dallas, Tex., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Manufacture of methyleyclohexenes. 2,430,137; Nov. 4.
- Oboler, Louis, Chicago, Ill. Flashlight type circuit tester. 2,430,824; Nov. 11.
- O'Boyle, Charles M., assignee: *See*—  
Thress, James D.
- O'Brian, Maurice, St. Louis, Mo., and E. R. Biggins, Indianapolis, Ind., assignors, by mesne assignments, to The Linde Air Products Company. Storage of acetylene. 2,422,251; June 17.
- O'Brien, Daniel J., Winthrop, Mass. Compact microscope. 2,433,674; Dec. 30.
- O'Brien, Frank J., Jr., and H. Gehrmann, Syracuse, assignors to Continental Can Company, Inc., New York, N. Y. Solder wiper for can body makers. 2,432,788; Dec. 16.
- O'Brien, John C., assignor to General Railway Signal Company, Rochester, N. Y. Tested channel radio communicating system. 2,421,081; May 27.
- O'Brien, Jolly W., Houston, Tex. Admix for drilling mud. 2,423,154; July 1.
- O'Brien, Joseph F.: *See*—  
Keith, Claude D., and O'Brien.
- Madsen, Soren, and O'Brien, and Keith.
- O'Brien, Joseph F., Jersey City, and E. S. Boynton, East Orange, N. J., assignors to John B. Pierce Foundation, New York, N. Y. Electromagnetic switch. 2,417,438; Mar. 18.
- O'Brien, Joseph F., Jersey City, and E. S. Boynton, East Orange, N. J., assignors to John B. Pierce Foundation, New York, N. Y. Shockproof connector device. 2,419,585; Apr. 29.
- O'Brien, Joseph F., Lebanon, and E. S. Boynton, East Orange, N. J., assignors to John B. Pierce Foundation, New York, N. Y. Outlet box unit. 2,426,235; Aug. 26.
- O'Brien, Lee F., Batavia, Ill. Hay sling. 2,431,194; Nov. 18.
- O'Brien, Richard H., Grand Rapids, Mich. Wheeled conveyor. 2,430,945; Nov. 18.
- O'Brien, Terrance P., Vallejo, Calif. Grill hone holder and guard. 2,430,991; Nov. 18.
- O'Brien, Thomas L., Far Rockaway, N. Y. Beachcombing apparatus. 2,419,154; Apr. 15.
- O'Brien, William J., assignor to E. F. Andrews, Chicago, Ill. Radio receiver. 2,426,580; Aug. 26.
- O'Brien, William J., assignor to The Decca Record Company, Limited, London, England. Radio beacon system. 2,430,244; Nov. 4.
- O'Brien, William L., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Heat transfer device with liquid lifting capillary surface. 2,426,044; Aug. 19.
- Obstfeld, Abraham I., assignee: *See*—  
Obstfeld, Lou.
- Obstfeld, Lou, assignor of one-half to A. I. Obstfeld, Brooklyn, N. Y. Stapling machine. 2,421,429; June 3.
- Obszarny, Theodore, assignor to Guardian Electric Manufacturing Co., Chicago, Ill. Electric motor follow-up system. 2,416,018; Feb. 18.
- Obszarny, Theodore, assignor to Guardian Electric Manufacturing Co., Chicago, Ill. Relay. 2,421,641; June 3.
- Obszarny, Theodore, assignor to Guardian Electric Manufacturing Co., Chicago, Ill. Electromagnet relay construction. 2,421,642; June 3.
- O'Callaghan, Jerome J., Skokie, and R. W. Saville, Wilmette, assignors to The Rauland Corporation, Chicago, Ill. Vibrator power supply. 2,423,614; July 8.
- Och, Henry G.: *See*—  
Boghossian, William H., and Och.
- O'Connor, Arthur F., Chicago, Ill., assignor to Union Asbestos & Rubber Company. Power take-off. 2,425,044; Aug. 5.
- O'Connor, Arthur F., Chicago, Ill., assignor to Union Asbestos & Rubber Company. Fan construction. 2,430,074; Nov. 4.
- O'Connor, Harry V.: *See*—  
Hatch, Meredith R., Saul, and O'Connor.
- O'Connor, Harry W., New York, N. Y. Spacer ring. 2,423,848; July 15.
- O'Connor, John B., Evanston, assignor to Illinois Tool Works, Chicago, Ill. Fastener device mounting means. 2,414,270; Jan. 14.
- O'Connor, John C., Dayton, Ohio. Rocking mixer. 2,418,982; Apr. 15.
- O'Connor, John C., Dayton, Ohio. Vibratory drilling apparatus. 2,420,793; May 20.
- O'Connor, John M.: *See*—  
Farris, Michael O., O'Connor, and Gottschalk.
- O'Connor, Stephen F., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Fire extinguishing closure for containers. 2,432,628; Dec. 16.
- O'Connor, Thomas R., Baltimore, Md. Fuse plug. 2,420,837; May 20.
- Odelius, Oscar G., Chicago, Ill. Seal construction. 2,420,718; May 20.
- Odell, Albert C., Jr., Wayne, Mich., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Combined actuating device for hydraulic brake systems and rudders. 2,433,146; Dec. 23.
- Odell, Benjamin B., Burbank, Calif. Tank cap. 2,421,350; May 27.
- Odell, William W., El Dorado, Ark., assignor to Lion Oil Company. Oxidizing hydrogen sulfide. 2,415,904; Feb. 18.
- Odessey, Paul H., Brooklyn, N. Y., assignor, by mesne assignments, to Portable Products Corporation, Pittsburgh, Pa. Meter for measuring moisture content. 2,422,742; June 24.



- Odgard, Andrew J., Glendale, Calif. Bait-mounting needle. 2,423,899; July 15.
- Odum, Blaine W., Los Angeles, Calif. Laundry hanger. 2,427,414; Sept. 16.
- O'Donnell, James, Los Angeles, Calif. Sewage disposal. 2,420,326; May 13.
- Oechlin, Konrad, assignor to Aktiengesellschaft Fuer Technische Studien, Zurich, Switzerland. Compressor, turbine, and heater arrangement for power plants working with a hot gaseous medium. 2,414,237; Jan. 14.
- Oehler, William P., assignor to Deere & Company, Moline, Ill. Flexible chute for planters. 2,428,679; Oct. 7.
- Oehring, Otto R., Saginaw, Mich. Ventilating mechanism for toilet bowls. 2,432,208; Dec. 9.
- Oestricher, Bernard, Brooklyn, N. Y. Plastic inner sole. 2,425,388; Aug. 12.
- Oetzel, Carl J., North Olmsted, assignor to The Oster Manufacturing Company, Cleveland, Ohio. Chuck. 2,429,524; Oct. 21.
- Oetzel, John G., assignor to Warner Electric Brake Manufacturing Company, Beloit, Wis. Electromagnetic friction device. 2,421,757; June 10.
- Oetzel, John G., Beloit, Wis., assignor to Warner Electric Brake Manufacturing Company, South Beloit, Ill. Friction element for brakes. 2,426,116; Aug. 19.
- O'Farrell, Matthew, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Distributing valve for percussive tools. 2,415,521; Feb. 11.
- O'Farrell, Matthew, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Distributing valve for percussive tools. 2,426,409; Aug. 26.
- O'Farrell, Matthew, Detroit, Mich., and A. J. St. Louis, Windsor, Ontario, Canada, assignors to Chicago Pneumatic Tool Company, New York, N. Y. Air-line oiler. 2,430,361; Nov. 4.
- Ofelt, Chester W.: *See—*  
Evans, Cyril D., and Ofelt.
- Offen, Bernard, Chicago, Ill. Drying webs. 2,414,891; Jan. 28.
- Offen, Bernard, Chicago, Ill. Apparatus for drying webs. 2,417,011; Mar. 4.
- Offen, Bernard, Chicago, Ill. Web dryer arrangement. 2,421,283; May 27.
- Office Furniture & Fixtures, Inc., assignee: *See—*  
Blazey, Lawrence E.
- Office, Lawrence, Los Angeles, Calif. Glare shield attachment. 2,432,674; Dec. 16.
- Office of Scientific Research and Development, Office for Emergency Management, United States, as represented by the Director of the, assignee: *See—*  
Neddermeyer, Seth H., and Kerst.
- Office of Scientific Research and Development, United States of America, as represented by the Executive Secretary of, assignee: *See—*  
Veneklasen, Paul S.
- Ofner, Alfred: *See—*  
Surmatis, Joseph D., and Ofner.
- Ofner, Alfred, Montclair, and J. D. Surmatis, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Amides and their manufacture. 2,432,438; Dec. 9.
- Ogburn, Bobbie G., assignee, et al.: *See—*  
Ogburn, Herbert H.
- Ogburn, Herbert H., assignor of one-half to B. G. Ogburn, one-fourth to J. Ogburn, and one-fourth to S. Ogburn, Greensboro, N. C. Suturing instrument. Re. 22,857; Mar. 25.
- Ogburn, Jean, assignee, et al.: *See—*  
Ogburn, Herbert H.
- Ogburn, Sally, assignee, et al.: *See—*  
Ogburn, Herbert H.
- Ogden, Arthur N.: *See—*  
Miller, Merton R., and Ogden.
- Ogilvie Flour Mills Co. Limited, The, assignee: *See—*  
McFarlane, William D., and Nikolaiczuk.
- Ogilvie, James, Buffalo, and A. J. Sweet, East Aurora, assignors to Allied Chemical & Dye Corporation, New York, N. Y. Oxidation of heterocyclic nitrogen compounds. 2,415,147; Feb. 4.
- Ogle, Hugh M.: *See—*  
Edwards, Martin A., and Ogle.  
Edwards, Martin A., Ogle, and Hoyt.
- Ogle, James C., Jr., and A. R. Weinrich, Brackenridge, Pa., assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Coating surfaces with quartz. 2,432,538; Dec. 16.
- Ogle, Robert W., San Marino, Calif. Heating pad. 2,429,583; Oct. 21.
- Oglesby, Milton L. G.: *See—*  
Johnson, Leonard E., and Oglesby.
- O'Gorman, William F., New York, N. Y. Pocket duplicator. 2,415,704; Feb. 11.
- Ogorzaly, Henry J.: *See—*  
Burnside, Harvey E. W., and Ogorzaly.
- Ogorzaly, Henry J., Summit, H. Z. Martin, and J. V. Marancik, Roselle, N. J., assignors to Standard Oil Development Company. Apparatus for contacting solids with gaseous fluid. 2,415,755; Feb. 11.
- Ogurkowski, Georges, Zug, Schönbühl, Switzerland, assignor to Landis & Gyr, A. G. Electrical-frequency responsive relay circuit. 2,415,653; Feb. 11.
- O'Hara, Leon M.: *See—*  
Grubb, Henry W., O'Hara, and Atwood.
- O'Hare, James W., Richmond Heights, Mo. Carrier for led goods. 2,420,006; May 6.
- Ohio Brass Company, The, assignee: *See—*  
Larsson, Ernst A.  
Matthes, Samuel S.  
Smith, Edward P.
- Ohio Crankshaft Company, The, assignee: *See—*  
Connor, Francis G., Benson, and Collyer.  
Denneen, Francis S., and Dunn.  
Wood, Alden O.
- Ohio-Kentucky Manufacturing Company, assignee: *See—*  
Stobbe, Benjamin B.
- Ohio Nut & Bolt Company, The, assignee: *See—*  
Whelan, Roderick J., and Reich.
- Ohio Rubber Company, The, assignee: *See—*  
Humphreys, Marion W.  
Saurer, Curt.
- Ohl, Russell S., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Conducting material and device and making them. 2,415,841; Feb. 18.
- Ohlendorf, Gerhard G., Whitsett, Tex. Direction control device. 2,455,558; Aug. 12.
- Ohlitz, Julius J., assignee: *See—*  
Lenke, George H.
- Ohlso, Ernest O., Rahway, and W. W. Waterman, Cranford, N. J., assignors to Standard Oil Development Company. Stripping emulsion polymerizable latices. 2,433,060; Dec. 23.
- Oil Center Tool Company, assignee: *See—*  
Penick, Arthur J.
- Oil Devices, assignee: *See—*  
Breese, James L.  
Breese, James L., and Hayter.  
Hayter, Bruce.
- Oil Distribution Appliances Limited, assignee: *See—*  
Elliott, Peter M.
- Oil-Gas Combustion Company, The, assignee: *See—*  
Reichhelm, George L.
- Oilgear Company, The, assignee: *See—*  
Ferris, Walter.  
Tyler, Ransom.
- O'Keeffe, Andrew E.: *See—*  
Lott, William A., Losee, and O'Keeffe.
- O'Kelly, Arlie A.: *See—*  
Kirkpatrick, James B., Schlesman, and O'Kelly.
- O'Kelly, Arlie A., J. R. Meadow, Woodbury, and R. E. Woodward, Westville, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Catalytic alkylation. 2,414,271; Jan. 14.
- O'Kelly, Arlie A., Woodbury, N. J., R. H. Work, Philadelphia, Pa., and J. Plucker, III, Pitman, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Alkylation of isoparaffins. 2,423,401; July 1.
- Okonite-Callender Cable Company, The, assignee: *See—*  
Bennett, Charles E., and White.
- Okonite-Callender Cable Company, Incorporated, The, assignee: *See—*  
Bennett, Charles E.  
Bennett, Charles E., and Everest.  
Gooding, Francis H.  
Stevens, Donald R.
- Okonite Company, The, assignee: *See—*  
Waldron, Richard C., and Hall.
- Okonski, Theodore S., assignor, by mesne assignments, to Wheeling Steel Corporation, Wheeling, W. Va. Fastening together sheets of expanded metal. 2,414,483; Jan. 21.
- Okonski, Theodore S., assignor, by mesne assignments, to Wheeling Steel Corporation, Wheeling, W. Va. Fastening together sheets of expanded metal. 2,419,910; Apr. 29.
- Okress, Ernest C., Montclair, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Automatic switch for ultra high frequency. 2,415,962; Feb. 18.
- Okress, Ernest C., Montclair, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Magnetron. 2,429,291; Oct. 21.
- Okress, Ernest C., Montclair, and D. E. Nelson, East Orange, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Cathode mounting. 2,414,605; Jan. 21.
- Olander, Roland J., assignor to W. H. Miner, Inc., Chicago, Ill. Shock absorber. 2,415,188; Feb. 4.
- Olander, Roland J., assignor to W. H. Miner, Inc., Chicago, Ill. Railway car truck. 2,425,822; Aug. 19.
- Olander, Roland J., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber. 2,427,415; Sept. 16.
- O'Larte, Rudolph, Rego Park, N. Y., and K. Speck, Palisade Park, assignors to Jacques Kreiser Manufacturing Corporation, North Bergen, N. J. Cathode assembly. 2,431,137; Nov. 18.
- O'Larte, Rudolph, Rego Park, N. Y., and K. Speck, Palisade Park, assignors to Jacques Kreiser Manufacturing Corporation, North Bergen, N. J. Electron gun positioning means. 2,432,037; Dec. 2.
- O'Larte, Rudolph, Rego Park, N. Y., and K. Speck, Palisade Park, assignors to Jacques Kreiser Manufacturing Corporation, North Bergen, N. J. Cathode assembly. 2,432,789; Dec. 16.
- O'Larte, Rudolph, Rego Park, and G. Vollet, Freeport, N. Y., assignors to Jacques Kreiser Manufacturing Corporation, North Bergen, N. J. Piezo-electric crystal holder. 2,432,790; Dec. 16.
- Olberg, Ralph C.: *See—*  
Pines, Herman, Ipatieff, and Olberg.



- Olbrys, Leo, Hamtramck, Mich. Automobile wheel balancer. 2,421,215; May 27.
- Old Dominion Box Company, assignee: *See*—  
Arner, Sterling R.
- Olden, Roger G., Princeton Township, Mercer County, N. J., assignor to Radio Corporation of America. Flexible joint for waveguides. 2,420,007; May 6.
- Oldham, Samuel R., West Orange, N. J., assignor to Union Carbide and Carbon Corporation. Making blowpipe nozzle blanks. 2,423,203; July 1.
- Oldham, Samuel R., West Orange, N. J., assignor to Union Carbide and Carbon Corporation. Blowpipe. 2,430,531; Nov. 11.
- Oldham, Wilbur N., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Method of preparing cyanuric chloride. 2,417,659; Mar. 18.
- Old King Cole, Incorporated, assignee: *See*—  
Adams, Douglas D., and Rollius.
- Oldroyd, Dorothy M., T. R. Savich, and L. A. Goldblatt, New Orleans, La., assignors to the United States of America, as represented by the Secretary of Agriculture. Process for depolymerizing allo-ocimene polymers. 2,427,506; Sept. 16.
- Olds, Robert C., Gardena, Calif. Tailstock offset gauge. 2,427,227; Sept. 9.
- Olen, Joseph, Jersey City, N. J. Laundry machine with replaceable container. 2,431,418; Nov. 25.
- O'Leary, Charles M., Detroit, Mich. Pneumatic pumping mechanism. 2,423,111; July 1.
- O'Leary, Charles M., Detroit, Mich. Pressure regulator for pumps. 2,426,639; Sept. 2.
- O'Leary, Charles M., Houston, assignor to Herbert C. Otis, Dallas, Tex. Well cementing apparatus. 2,416,842; Mar. 4.
- Olesen, Nels S., Sidney, Mont. Razor blade handle or holder. 2,413,926; Jan. 7.
- Olfens, Gertrude, St. Louis, Mo. Combination undergarment. 2,429,767; Oct. 28.
- Olin Industries, Inc., assignee: *See*—  
Burtle, Jerome G.  
Delsole, Joseph H.  
Fleischer, Joseph, and Burtle.  
Franz, Arvel O., and Keplinger.  
Franz, Arvel O., Martinez, and Koppelman.  
Seavey, Frederick R.  
Sefried, Harry H., II.  
Silk, Charles E., and Dintelmann.  
Wilson, Golder P.  
Wilson, Golder P., and Goff.
- Olin, John F., and T. E. Deger, Grosse Ile, Mich., assignors to Sharples Chemicals Inc., Philadelphia, Pa. Manufacture of aliphatic amines and acid amides. 2,422,631; June 17.
- Olin, John F., and T. E. Deger, Grosse Ile, Mich., assignors to Sharples Chemicals Inc., Philadelphia, Pa. Manufacture of aliphatic amines and acid amides. 2,422,632; June 17.
- Oliver, Anthony F.: *See*—  
Palmer, Robert C.
- Oliver, Bernard M., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrooptical device. 2,415,842; Feb. 18.
- Oliver Corporation, The, assignee: *See*—  
Altgelt, Herman E.  
Gemberling, Cameron H.
- Oliver Iron Mining Company, assignee: *See*—  
Clifford, Charles C.  
Kordish, John J., and Trotta.
- Oliver, Leo E., Sanger, and R. Carson, Sr., Vallejo, Calif. Carburetor. 2,431,958; Dec. 2.
- Oliver, Sheffield F., Modesto, Calif. Sitz bath. 2,427,807; Sept. 23.
- Oliver United Filters Incorporated, assignee: *See*—  
McGuire, Philip J., Brittain, and Rollins.
- Oliver, Wallace F., assignor to Bendix Home Appliances, Inc., South Bend, Ind. Combined timer and selector switch mechanisms. 2,427,300; Sept. 9.
- Olivio, Walter L., and J. B. Terrell, Denver City, Tex. Oil and water separator having a collecting pipe and a stratification pipe therebelow. 2,423,793; July 8.
- Olman, Peter M., Los Angeles, Calif. Variable pitch propeller. 2,416,541; Feb. 25.
- Olney, George J., Westernville, N. Y. Can filling machine. 2,424,842; July 29.
- O'Loughlin, Walter K., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Preparation of amines. 2,422,743; June 24.
- Olpin, Henry C., E. Stanley, and C. S. Argyle, Spondon, near Derby, assignors to British Celanese Limited, London, England. Disazo dyes containing higher acylamino group. 2,420,008; May 6.
- Olpin, Henry C., S. A. Gibson, and W. C. McKnight, Spondon, near Derby, assignors to British Celanese Limited, London, England. Fixation of finely divided substances. 2,424,284; July 22.
- Olpin, Henry C., and J. Wright, Spondon, near Derby, assignors to British Celanese Limited, London, England. Monazo and disazo dyes with N-substituted 1,3,5 xyldines. 2,424,627; July 29.
- Olsen, Arthur A., Pittsfield, Mass., assignor to General Electric Company. Lightning arrester. 2,422,978; June 24.
- Olsen, Charles R., Philadelphia, Pa. Grenade launching tube and auxiliary cartridge therefor. 2,432,539; Dec. 16.
- Olsen, Edgar L., Weldon, Saskatchewan, Canada. Remote control means for direct current motors. 2,428,984; Oct. 14.
- Olsen, Elmer C., Monterey Park, Calif. Awning supporting frame and adjustable connector therefor. 2,423,402; July 1.
- Olsen, F. B., assignee: *See*—  
Schaapveld, Henry J.
- Olsen, Thomas S., Pleasantville, assignor to General Baking Company, New York, N. Y. Package. 2,429,191; Oct. 14.
- Olsen, Thue C., Woodbridge, N. J., assignor to American Smelting and Refining Company, New York, N. Y. Drill sampling device. 2,420,905; May 20.
- Olsen, Tinius, Testing Machine Company, assignee: *See*—  
Lawrie, George C.  
Sivertsen, Jens.
- Olson, Archie: *See*—  
Olson, Ray and A.
- Olson, Carl M., Richland, Wash., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of titanium nitride. 2,413,778; Jan. 7.
- Olson, Dewey O., Dearborn, Mich., assignor to National Steel Corporation. Apparatus for handling coils. 2,430,075; Nov. 4.
- Olson, Edwin C., New Britain, Conn. Toy crane. 2,429,070; Oct. 14.
- Olson, Harry F., Princeton, N. J., assignor to Radio Corporation of America. Signal translating apparatus. 2,429,104; Oct. 14.
- Olson, Harry F., Princeton, N. J., and F. A. Hester, New York, N. Y., assignors to Radio Corporation of America. Magnetostrictive signal translating apparatus. 2,414,699; Jan. 21.
- Olson, Holly M., assignor to Sealed Power Corporation, Muskegon, Mich. Machine for splitting piston rings. 2,433,576; Dec. 30.
- Olson, John M., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Liquid wax polish. Re. 22,860; Apr. 1.
- Olson, Ray and A., Kingsburg, Calif. Ridge forming and leveling disc plow. 2,431,959; Dec. 2.
- Olson, Raymond E., Sidney, Ohio. Fold plate for folding machines. 2,414,386; Jan. 14.
- Olson, Raymond E., Pittsford, assignor to Taylor Instrument Companies, Rochester, N. Y. Method and apparatus for pasteurizing liquids. 2,415,304; Feb. 4.
- Olson, William N., Canton, Ill., assignor to International Harvester Company. Shifting hitch for tractor propelled agricultural implement. 2,416,207; Feb. 18.
- Olsson, A/B Chr., assignee: *See*—  
Andersson, Nils A.
- Olsson, Olov J. E., assignor to Storm Manufacturing Co., Inc., Minneapolis, Minn. Attachment device for cylinder boring machine. 2,418,789; Apr. 8.
- Olstad, Calmer, Nerstrand, Minn. Clutch control. 2,423,043; June 24.
- Olving, Bror G., assignor to McGraw Electric Company, Elgin, Ill. Automatic electric toaster. 2,415,963; Feb. 18.
- Olving, Bror G., assignor to McGraw Electric Company, Elgin, Ill. Automatic electric toaster. 2,420,188; May 6.
- Olving, Bror G., assignor to McGraw Electric Company, Elgin, Ill. Automatic electric toaster. 2,431,195; Nov. 18.
- O'Malley, Joseph M., assignor to Morgan Construction Company, Worcester, Mass. Wabbler coupling. 2,430,683; Nov. 11.
- O'Malley, Louis J., assignee: *See*—  
Dooling, John H.
- Omansky, Morris: *See*—  
Bersworth, Frederick C., and Omansky.
- O'Meara, Robert G.: *See*—  
Kennedy, James S., and O'Meara.
- Omel, Jacob, Kenmore, N. Y. Attachment for photographic apparatus. 2,419,417; Apr. 22.
- Omes Limited, assignee: *See*—  
Mora, Grato.  
Rogati, Carlo.
- Onan, D. W., & Sons, assignee: *See*—  
Dols, Charles G.
- O'Neal, Wilbert O., Lees Summit, Mo., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Machine stop. 2,425,438; Aug. 12.
- O'Neal, Willie H.: *See*—  
Thomas, Oscar H., O'Neal, and Sword.
- O'Neill, Albert T., Minneapolis, Minn. Pivoted bender with pivoted work engaging dog. 2,414,387; Jan. 14.
- O'Neill, William F., assignor to The General Tire & Rubber Company, Akron, Ohio. Auxiliary jet power means for aircraft. 2,422,744; June 24.
- O'Neill, William J., New York, assignor to A. P. W. Products Co., Inc., Albany, N. Y. Dispensing cabinet. 2,426,787; Sept. 2.
- O'Neill, Charles J., Manteno, Ill. Offset wheel construction for trailers. 2,420,794; May 20.
- O'Neill, Standish, New York, N. Y. Combined comb and flower holder. 2,428,985; Oct. 15.
- Onstad, Henry G., Chicago, Ill. Boxcar unloader. 2,426,562; Aug. 26.
- Onsrud Machine Works, Inc., assignee: *See*—  
Onsrud, Rudolph F.
- Onsrud, Rudolph F., assignor to Onsrud Machine Works, Inc., Chicago, Ill. Rotor governor. 2,426,045; Aug. 19.



- Oosterhout, Johan C. D., and T. C. Roddy, Jr., Port Arthur, Tex., assignors to The Texas Company, New York, N. Y. Solvent extraction of unsaturated materials. 2,419,499; Apr. 22.
- Opdyke, Harry W.: *See*—  
Wrightman, Harry J., and Opdyke.
- Operadio Manufacturing Co., assignee: *See*—  
Marquis, John F., and Weibler.  
Weibler, Carleton T.
- Opferman, Laurene P.: *See*—  
Fox, Sereck H., and Opferman.
- Opitz, Fred W., Chicago, Ill. Liquid dispensing valve. 2,425,161; Aug. 5.
- Opp, Carl, Cincinnati, Ohio, assignor to Interchemical Corporation, New York, N. Y. Resinous reaction product of ethylene glycol, glycerol, and succinic anhydride. 2,418,721; Apr. 8.
- Oppenheim, Austin N., assignor to Unique Fibers, Inc., New York, N. Y. Yarn. 2,416,208; Feb. 18.
- Oppenheim, Austin N., assignor to Unique Fibers, Inc., New York, N. Y. Yarn. 2,416,209; Feb. 18.
- Oppenheimer, Franz: *See*—  
Levinson, Sidney O., and Oppenheimer.
- Oppenheimer, Klee, New York, N. Y. Article of apparel. 2,416,343; Feb. 25.
- Oppenheimer, Samuel P., New York, N. Y. Hat protector. 2,424,414; July 22.
- Optique Et Precision De Levallois, assignee: *See*—  
Armand, Antoine Auguste Atenor, Duc de Gramont.
- Optronics Laboratories, Inc., assignee: *See*—  
Langberg, Charles.
- O'Quinn, C. L., and J. H. Hayes, Miles, Tex. Pipe extractor. 2,433,477; Dec. 30.
- Oradent Chemical Co., Inc., assignee: *See*—  
Goldberg, Samuel D.  
Reasenberg, Julian R., and Goldberg.
- Orchard, Herman, St. Louis, Mo., assignor to Orchard Paper Company. Design formation on colored paper. 2,420,336; May 13.
- Orchard Paper Company, assignee: *See*—  
Orchard, Herman C.  
Sebastian, Edward.
- Orchin, Milton, Pittsburgh, Pa., assignor to the United States of America, as represented by the Secretary of Interior. Synthesis of fluorene and its derivatives. 2,414,118; Jan. 14.
- Orefraction Incorporated, assignee: *See*—  
Wiegand, Edwin L.
- Orelind, John R., Wilmette, Ill., assignor to International Harvester Company. Agricultural implement. 2,430,731; Nov. 11.
- Orelind, John R., Wilmette, and A. G. Evans, Canton, Ill., assignors to International Harvester Company. Implement mount for tractors. 2,430,732; Nov. 11.
- Orelind, John R., Wilmette, and J. Morkoski, Canton, Ill., assignors to International Harvester Company. Agricultural implement. 2,433,147; Dec. 23.
- Orelind, John R., Wilmette, and J. Morkoski, Canton, Ill., assignors to International Harvester Company. Plow. 2,433,148; Dec. 23.
- Orelup, John W., Short Hills, N. J. Stabilized colored smoke composition. 2,419,851; Apr. 29.
- Oresik, Kornell: *See*—  
Culkosky, Martin, and Oresik.
- O'Riley, Shaw, Nashville, Tenn. Armature fan puller. 2,431,960; Dec. 2.
- Orkney, James W., Yakima, Wash. Supplemental screen for hop separators. 2,428,319; Sept. 30.
- Orland, Louis, Los Angeles, Calif. Adjustably mounted motor. 2,422,433; June 17.
- Orlando, Don S., San Jose, Calif. Box dumping machine. 2,424,252; July 22.
- Orlove, Max, assignor of one-half to C. Schiffman, New York, N. Y. Electron tube coating. 2,428,289; Sept. 30.
- Ormond, John I., Bensenville, Ill., assignor to Kraft Foods Company. Apparatus for stripping film from a drying cylinder. 2,413,779; Jan. 7.
- Ormsby, Donald D.: *See*—  
Lauver, Herbert L., and Ormsby.
- Ormsby, Donald D., assignor to Clark Equipment Company, Buchanan, Mich. Auxiliary powered vehicle construction. 2,419,911; Apr. 29.
- Ormsby, Donald D., assignor to Clark Equipment Company, Buchanan, Mich. Auxiliary powered vehicle construction. 2,419,912; Apr. 29.
- Ormsby, Donald D., assignor to Clark Equipment Company, Buchanan, Mich. Clutch. 2,419,913; Apr. 29.
- Oroshnik, William, Brooklyn, N. Y., assignor to Ortho Pharmaceutical Corporation. Producing ethynyl carbols. 2,425,201; Aug. 5.
- Orr, Claude L., and H. W. Stertzbach, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Brake beam safety hanger. 2,420,337; May 13.
- Orr, Palmer, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Planetary reverse gear. 2,414,832; Jan. 28.
- Orr, Palmer, and C. J. Conkle, Muncie, Ind., assignors to Borg-Warner Corporation, Chicago, Ill. Synchronizer coupling. 2,414,388; Jan. 14.
- Orr, Perry, assignor of one-half to S. Orr, Naches, Wash. Power drive for sawmill set works. 2,431,580; Nov. 25.
- Orr, Stanis, assignee: *See*—  
Orr, Perry.
- Orrill, George R.: *See*—  
Eustis, Warner, and Orrill.
- Orshansky, Elias, Jr., assignor to The Acrotorque Company, Stamford, Conn. Universal conduit joint. 2,424,897; July 29.
- Orthner, Ludwig: *See*—  
Balle, Gerhard, Rosenbach, and Orthner.
- Ortho Pharmaceutical Corporation, assignee: *See*—  
Oroshnik, William.  
Sander, Frank V., and Coles.
- Orthwine, Rudolf, New York, N. Y. Needle. 2,416,117; Feb. 18.
- Ortman, Frank W., assignor to Farrell-Cheek Steel Company, Sandusky, Ohio. Apparatus for molding helical screws. 2,418,599; Apr. 8.
- Orton, Samuel T., Jr., Lunenburg, assignor to Union Screen Plate Company, Fitchburg, Mass. Wood pulp screen plate. 2,419,155; Apr. 15.
- Orton, Samuel T., Jr., Lunenburg, assignor to Union Machine Company, Fitchburg, Mass. Wood pulp screening vat. 2,426,897; Sept. 2.
- Orvis, Homer W., assignee: *See*—  
Bogoslowsky, Boris.
- Orzel, Francis J., assignee, et al.: *See*—  
Lefebvre, Edward A.
- Osborn, Alden E., Mount Vernon, N. Y. Pipe joint. 2,420,838; May 20.
- Osborn, Alden E., Mount Vernon, N. Y. Internal combustion engine. 2,422,364; June 17.
- Osborn, Jesse C., St. Louis, Mo., assignor to Penn Electric Switch Co., Goshen, Ind. Compensated power element. 2,422,365; June 17.
- Osborn Manufacturing Company, The, assignee: *See*—  
Abbrecht, Hermann R.  
Kibbee, Charles M.  
Peterson, Ruben O.
- Osborn, Merle L., Long Beach, Calif. Pressure regulating valve. 2,416,881; Mar. 4.
- Osborne, Chester E., Rahway, assignor to Paul O. Abbe, Inc., Little Falls, N. J. Method and apparatus for mixing and rendering plastic pulverulent materials. 2,431,274; Nov. 18.
- Osborne, Fay H., assignor to C. H. Dexter & Sons, Inc., Windsor Locks, Conn. Thermoplastic paper and preparing the same. 2,414,833; Jan. 28.
- Osborne, Fred H., Snyder, N. Y., assignor to The Rudolph Wurlitzer Company, North Tonawanda, N. Y. Film selecting mechanism. 2,416,210; Feb. 18.
- Osborne, Fred H., Snyder, assignor to The Rudolph Wurlitzer Company, North Tonawanda, N. Y. Package vending apparatus. 2,428,579; Oct. 7.
- Osborne, John E., assignee: *See*—  
Dickens, La Verne.
- Osborne, John L., Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y. Preparing di-cyanamide. 2,416,542; Feb. 25.
- Osborne, John L., Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y. Preparing di-cyanamide. 2,416,543; Feb. 25.
- Osborne, John L., Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y. Preparing di-cyanamide. 2,416,544; Feb. 25.
- Osborne, John L., Elizabeth, N. J., assignor to American Cyanamid Company, New York, N. Y. Preparing di-cyanamide. 2,416,545; Feb. 25.
- Osborne, William B., Muncie, Ind. Speed varying gearing. 2,417,944; Mar. 25.
- Osburn, Myron E., Enid, Okla. Stringed musical instrument. 2,414,238; Jan. 14.
- Oschin, Samuel, Detroit, Mich. Welding shield. 2,417,883; Mar. 25.
- Oschwald, Alfred, assignee, et al.: *See*—  
Kalman, Ladislaus.
- Osenbaugh, Chester L., Memphis, Tenn. Endless belt floor scrubbing machine with adjustable endless belt. 2,430,409; Nov. 4.
- Osgood, Charles F., Claremont, N. H., assignor to Joy Manufacturing Company. Mining apparatus. 2,415,217; Feb. 4.
- Osgood, Charles F., Claremont, N. H., assignor to Joy Manufacturing Company. Apparatus for transferring material in mines. 2,420,009; May 6.
- Osgood, Charles F., Claremont, N. H., assignor to Joy Manufacturing Company. Working implement retainer. 2,432,331; Dec. 9.
- Osgood Company, The, assignee: *See*—  
White, Fred L.
- Osgood, Harry W., Jackson County, Mo. Driving tee for projectiles. 2,432,209; Dec. 9.
- Osgood, Robert C., Claremont, N. H., assignor to Joy Manufacturing Company. Hoist control means. 2,427,471; Sept. 16.
- O'Shaughnessy, Marion T., Jr., Bethesda, Md., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of regenerated cellulose structures. 2,418,660; Apr. 8.
- Osipow, Lloyd I., Brooklyn, and E. Blumenthal, New York, assignors to Technical Products Company, Hudson County, N. Y. Electrolytic steam pad for ironing boards. 2,423,945; July 15.
- Osses, Jacob, Roxbury Crossing Station, Mass. Defense weapon. 2,432,791; Dec. 16.
- Ost, Clarence S., Atlantic City, N. J. Proportional ruler. 2,422,745; June 24.



Oster Manufacturing Company, The, assignee: *See—*

Oetzel, Carl J.  
 Osterberg, Harold, and P. C. Heijn, Buffalo, N. Y., assignors, by mesne assignments, to American Optical Company, Southbridge, Mass. Apparatus for coating articles. 2,416,211; Feb. 18.  
 Osterberg, Harold, and H. S. Schrader, Buffalo, N. Y., assignors, by mesne assignments, to American Optical Company, Southbridge, Mass. Microscope with special light modifiers. 2,427,689; Sept. 23.  
 Ostergren, Ralph H., Los Angeles, assignor to Douglas Aircraft Company, Inc., San Monica, Calif. Pressure indicator. 2,420,148; May 6.  
 Osterheld, Clark M., Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill. Thermal retarder. 2,415,522; Feb. 11.  
 Osterheld, Clark M., Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill. Thermal retarder unit. 2,415,523; Feb. 11.  
 Osterheld, Clark M., Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill. Thermal retarder. 2,415,524; Feb. 11.  
 Osterheld, Clark M., Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill. Tank heater control system. 2,415,525; Feb. 11.  
 Osterheld, Clark M., Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill. Water heater thermostat and cut-out. 2,415,964; Feb. 18.  
 Osterheld, Clark M., Stoughton, Wis., assignor to McGraw Electric Company. Creep-type thermal retarder for water heating control systems. 2,415,965; Feb. 18.  
 Osterheld, Clark M., Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill. Light-sensitive cell thermal retarder in water heater control systems. 2,415,966; Feb. 18.  
 Osterheld, Clark M., Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill. Thermal reluctance rod thermal-retarder for electric water heaters. 2,417,778; Mar. 18.  
 Osterheld, Clark M., Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill. Multicontact bimetallic thermal retarder for electric water heaters. 2,420,189; May 6.  
 Osterheld, Clark M., Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill. Thermal retarder. 2,428,525; Oct. 7.  
 Osterheld, Clark M., Stoughton, Wis., assignor to McGraw Electric Company, Elgin, Ill. Anticorrosion tank. 2,428,526; Oct. 7.  
 Ostermann, Rudolf M., Kenilworth, Ill., assignor to The Superheater Company, New York, N. Y. Steam power plant. 2,418,477; Apr. 8.  
 Ostertag, Harry M., Drexel Hill, and F. O. Boylan, Norwood, assignors to Scott Paper Company, Chester, Pa. Method and machine for forming paper. 2,418,600; Apr. 8.  
 Ostli, Arnold J., Chicago, Ill. Safety helmet. 2,421,643; June 3.  
 Ostline, John E., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,419,282; Apr. 22.  
 Ostlund, Evert M.: *See—*  
   Labin, Emile, and Ostlund.  
 Ostlund, Evert M., Montclair, N. J., and P. W. Sokoloff, Forest Hills, N. Y., assignors to Federal Telephone and Radio Corporation, Newark, N. J. Pulse generating system. 2,424,999; Aug. 5.  
 Ostlund, Henning I., Minneapolis, Minn. Hay stacker. 2,423,946; July 15.  
 Ostrom, Charles T., Base Line, Mich. Adjustable skein holder. 2,420,839; May 20.  
 Ostrom, Martin, assignor to National Lock Company, Rockford, Ill. Catch. 2,414,662; Jan. 21.  
 Ostrovsky, Henry, Philadelphia, Pa. Razor. 2,426,117; Aug. 19.  
 Ostwald, Richard: *See—*  
   Naab, Julius, and Ostwald.  
 Oswego Falls Corporation, assignee: *See—*  
   Wilcox, Isaac L.  
 Otis, Charles M., Rochester, N. Y., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Hosiery drier. 2,413,994; Jan. 7.  
 Otis Elevator Company, assignee: *See—*  
   Bruns, William H.  
   Bruns, William H., and Galanty.  
   Lewis, Jacob D.  
   Lewis, Jacob D., Troster, and Sederberg.  
 Otis, Herbert C., assignee: *See—*  
   O'Leary, Charles M.  
 Otis, Milton G. and O. J., New London, Wis. Carrier. 2,428,501; Oct. 7.  
 Otis, Orland J.: *See—*  
   Otis, Milton G. and O. J.  
 O'Toole, Richard F., Scarsdale, and A. C. Parlino, Freeport, assignors of one-half to said O'Toole, one-fourth to N. J. Vezaris, and one-fourth to S. Linakis, New York, N. Y. Apparatus for roasting coffee. 2,418,275; Apr. 1.  
 Ott, George A., Coronado, Calif., and B. A. Van Voorhis, U. S. Navy, Washington, D. C. Apparatus for recovering seaplanes from the water. 2,418,478; Apr. 8.  
 Ott, Harvey N., Buffalo, N. Y. Microscope. 2,421,126; May 27.  
 Ott, Harvey N., Buffalo, N. Y. Mounting for substage parts of microscopes. 2,432,583; Dec. 16.

Ott, Ralph V., Narrows, Va., assignor to Celanese Corporation of America. Device for testing static accumulating properties of textile fibers. 2,421,430; June 3.  
 Ottawa Steel Products, Incorporated, assignee: *See—*  
   Simmonds, Wayne W.  
 Otte, Harry C., Brookhaven, Miss. Barrel planter. 2,420,092; May 6.  
 Otterman, Joyce, Blyth, England. Artificial arm. 2,427,974; Sept. 23.  
 Otto, Carl, Manhasset, N. Y. Production ammonium sulphate. 2,424,207; July 15.  
 Otto, Carl, Manhasset, assignor to Fuel Refining Corporation, New York, N. Y. Production of ammonium sulphate. 2,423,794; July 8.  
 Otto, Carl, Manhasset, assignor to Fuel Refining Corporation, New York, N. Y. Production of ammonium sulphate. 2,424,205; July 15.  
 Otto, Carl, Manhasset, assignor to Fuel Refining Corporation, New York, N. Y. Production of ammonium sulphate. 2,424,206; July 15.  
 Otto, Carl, Manhasset, assignor to Fuel Refining Corporation, New York, N. Y. Apparatus for passing air admixed with rich fuel gas into heating flues of underfired regenerative coke ovens. 2,426,520; Aug. 26.  
 Otto, Ferdinand P., Woodbury, N. J. Halosulfurized cardanol ethers. 2,414,057; Jan. 7.  
 Otto, Ferdinand P., Woodbury, and R. E. Meyer, Gloucester, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Mineral oil composition. 2,419,586; Apr. 29.  
 Otto, Julian A., Long Island City, assignor to General Chemical Company, New York, N. Y. Transposition of dichlorobutenes. 2,422,252; June 17.  
 Otto, Julian A., Long Island City, N. Y., and A. E. Anderson, Danielson, Conn., assignors to General Chemical Company, New York, N. Y. Production of 2,3-dimethylbutadiene-1,3. 2,419,030; Apr. 15.  
 Otto, Merritt M.: *See—*  
   Cislak, Francis E., and Otto.  
 Ouellet, Damase, La Tuque, Quebec, Canada. Saw vise. 2,429,292; Oct. 21.  
 Ovenshire, Clyde A., Berkeley, Calif. Detachable handle for reversible cooking utensils. 2,432,792; Dec. 16.  
 Overacker, Ida A., Klickitat, Wash. Building block. 2,433,149; Dec. 23.  
 Overbeck, Wilcox P., Knoxville, Tenn., assignor to Research Corporation, New York, N. Y. Electronic switching device. 2,427,533; Sept. 16.  
 Overbey, Floyd M., assignor to Ero Manufacturing Company, Chicago, Ill. Collapsible table leg hinge and latch structure. 2,425,162; Aug. 5.  
 Overdick, William, New York, N. Y. Chair. 2,417,439; Mar. 18.  
 Overholt, Lloyd F.: *See—*  
   Cary, Philip E., Overholt, Johnson, and Borgard.  
 Overland, Leo D., Brooklyn, N. Y. Dipping apparatus for coating ice cream bars. 2,418,190; Apr. 1.  
 Overly Bio-Chemical Research Foundation, Inc., The, assignee: *See—*  
   Färber, Eduard, and Wallerstein.  
   Schade, Arthur L.  
   Schade, Arthur L., and Färber.  
 Overly, Elmer G., Oakmont, Pa. Package unit for envelopes and paper. 2,425,895; Aug. 19.  
 Overmire, Paul C., San Francisco, Calif. Cigarette holder. 2,429,167; Oct. 14.  
 Overstreet, John T., South Antonio, Tex. Piston ring. 2,417,884; Mar. 25.  
 Overton, Charles M., Tulsa, Okla. Metal lock. 2,415,905; Feb. 18.  
 Overzat, Joseph J., New York, N. Y. Lathe fixture. 2,427,020; Sept. 9.  
 Ovrebo, Paul J., Dayton, Ohio. High power radio-frequency air-calorimeter-wattmeter. 2,421,758; June 10.  
 Owen, Benjamin F., Omaha, Nebr. Farm land bulldozer, snow plow, and road maintainer. 2,426,410; Aug. 26.  
 Owen Bucket Company, The, assignee: *See—*  
   Botten, Henry W.  
 Owen, Dorothy, Wauwatosa, Wis. Garment. 2,426,282; Aug. 26.  
 Owen, John E., Tulsa, Okla., assignor to Geophysical Research Corporation, New York, N. Y. Apparatus for measuring the ratio or product of two alternating voltages. 2,419,852; Apr. 29.  
 Owen, John J., and C. N. Kimberlin, Jr., assignors, by mesne assignments, to Jasco, Incorporated, Baton Rouge, La. Production of acrylonitrile. 2,414,762; Jan. 21.  
 Owen, Robert G., Sherman Oaks, and E. H. Howard, La Canada, Calif. Milling machine cutter. 2,431,581; Nov. 25.  
 Owen, W. Myron, assignee, et al.: *See—*  
   Wright, Marcus G.  
 Owens-Corning Fiberglass Corporation, assignee: *See—*  
   Collins, Howard W.  
   Grant, John A.  
   Perloff, Jack W.  
   Slayter, Games.  
   Stream, Ralph M.  
   Trowbridge, William L.  
 Owens, Freeman H., New York, N. Y. Time control apparatus. 2,415,843; Feb. 18.  
 Owens, Freeman H., New York, N. Y. Program preselecting time control apparatus. 2,432,540; Dec. 16.



- Owens-Illinois Glass Company, assignee: *See*—  
Allen, Russell G.  
Belada, John.  
Bowe, George R., Jr.  
Bjering, Olav, and Belnap, Jr.  
Fedorchak, William J., and Jackson.  
Finley, Hugh P.  
Hersh, Herman I.  
Holmes, Minot K., and Plummer.  
Miller, Ira H.  
Paul, Hubert W.  
Schreiber, Carl W., and Vollstorf.  
Wheaton, Jack M., and Hohl.  
Wilske, Julius E., Jackson, and McCormick.
- Owens, Thomas B., Cleveland, Ohio. Mixing device. 2,420,494; May 13.
- Owings, Joseph F., Coulee City, Wash. Antiskid chain. 2,420,758; May 20.
- Owney, Lloyd C., Los Angeles, Calif., assignor to Theatre Specialties, Incorporated. Background for interchangeable display characters. 2,430,646; Nov. 11.
- Owsley, Ollie M., Alexandria, Va. Self-synchronous remote-control system. 2,424,843; July 29.
- Ox Fibre Brush Company, Inc., assignee: *See*—  
Lundgren, Eric L.
- Oxley, George W.: *See*—  
Tarr, Allan L., and Oxley.
- Oxley, Horace F., and E. B. Thomas, Spondon, near Derby, and W. G. B. Mills, Wimbledon, London, assignors to British Celanese Limited, London, England. Manufacture of vinyl esters. 2,425,389; Aug. 12.
- Oxley, Milas A., Kansas City, Mo. Trouser hanger and stretcher. 2,418,314; Apr. 1.
- Oxley, Peter: *See*—  
Short, Wallace F., and Oxley.
- Oxley, Peter, and W. F. Short, assignors to Boots Pure Drug Company Limited, Nottingham, England. Preparation of sulfonamide compounds. 2,414,892; Jan. 28.
- Oxweld Railroad Service Company, The, assignee: *See*—  
Wunsch, Aleck H.
- Oyston, William R., assignor to Novobax Limited, Watford, England. Method and apparatus for bending metal to loop formation. 2,419,418; Apr. 22.
- Ozark Chemical Company, assignee: *See*—  
Cecil, Lawrence K., Stengel, and Bedwell.
- Ozark-Mahoning Company, assignee: *See*—  
Lange, Willy, and Livingston.
- Ozinga, Peter K., Houston, Tex., assignor to Shell Development Company, San Francisco, Calif. Apparatus for completing wells. 2,425,202; Aug. 5.
- P & K Incorporated, assignee: *See*—  
Cooper, Leo, and Tait.
- Pabich, Walter R., Chicago, Ill. Safety device for elevators or lifts. 2,428,986; Oct. 14.
- Pabst Brewing Company, assignee: *See*—  
Rue, Harold E.
- Pabst, Edwin L., Cincinnati, Ohio, assignor to Spring-Air Company, Holland, Mich. Mattress or the like. 2,433,321; Dec. 23.
- Pace, Marvin W., Merced, Calif. Amusement ride. 2,429,768; Oct. 28.
- Pacific Bridge Company, assignee: *See*—  
Parsons, Thomas.
- Pacific Car and Foundry Company, assignee: *See*—  
Wood, David M.
- Pacific Clay Products, assignee: *See*—  
Wind, Fred V., and Raimondo.
- Pacific Metals Company, Ltd., assignee: *See*—  
Cook, Lawrence H.  
Eskra, George N.
- Pacific Mills, assignee: *See*—  
Barnard, Kenneth H., Balsbaugh, and Blackwood.  
Musser, David M.
- Pack, Samuel E.: *See*—  
King, Robert R., Pack, and Wharton.
- Package Machinery Company, assignee: *See*—  
Smith, Elmer L., and Wetsel.
- Packard Motor Car Company, assignee: *See*—  
McFarland, Forest R.  
Taylor, Ross E.  
Vincent, Jesse G.  
Ware, Marsden.
- Packard, Raymond P., Tacoma, Wash. Carrier. 2,428,941; Oct. 14.
- Packer, Howard, Dayton, Ohio. Paint remover composition. 2,418,138; Apr. 1.
- Packer, Lewis C., Longmeadow, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Motor. 2,419,156; Apr. 15.
- Packer, Lewis C., Longmeadow, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Motor-generator. 2,433,390; Dec. 30.
- Packie, John W., Green Village, and R. A. Given, Elizabeth, N. J., assignors to Standard Oil Development Company. Butadiene extraction. 2,420,906; May 20.
- Packie, John W., Green Village, and W. H. Rupp, Mountinside, N. J., assignors to Standard Oil Development Company. Sulfuric acid extraction of isobutylene from hydrocarbon mixtures. 2,424,186; July 15.
- Paden, Joseph H., Glenbrook, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparation of beta-alanine. 2,414,389; Jan. 14.
- Paden, Joseph H., Glenbrook, and A. F. MacLean, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparation of guanidine salts. 2,417,440; Mar. 18.
- Paden, Joseph H., Glenbrook, and L. C. Lane, Jr., Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Production of guanidine salts. 2,417,441; Mar. 18.
- Paden, Joseph H., and A. F. MacLean, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Production of mono- and unsymmetrically disubstituted guanidines. 2,425,341; Aug. 12.
- Paden, Joseph H., and A. F. MacLean, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Dicyandiamide oxalates. 2,433,391; Dec. 30.
- Paden, Joseph H., and A. F. MacLean, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Dicyandiamide picrate. 2,433,392; Dec. 30.
- Paden, Joseph H., and A. F. MacLean, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Dicyandiamide maleate. 2,433,393; Dec. 30.
- Paden, Joseph H., and A. F. MacLean, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Dicyandiamide sulfonates. 2,433,394; Dec. 30.
- Padgett, Emily D., Charlotte, N. C. Child's sleeping garment. 2,429,168; Oct. 14.
- Padgett, Vernie G., assignor of thirty-three and one-third per cent to O. Roberts, Eldorado, Ill. Wedging device. 2,428,238; Sept. 30.
- Pagano, Lawrence A.: *See*—  
Xenls, Constantine P., Pagano, and Bauman.
- Page, Bruno, assignor to Schering & Glatz, Inc., New York, N. Y. Surgical apparatus. 2,414,240; Jan. 14.
- Page, Bruno, and H. Lensky, assignors to Schering & Glatz, Inc., New York, N. Y. Surgical apparatus. 2,414,239; Jan. 14.
- Page, Edward H., Middleburgh, N. Y. Helicopter having folding rotor. 2,424,769; July 29.
- Page Engineering Company, assignee: *See*—  
Page, John W.
- Page, Frank R.: *See*—  
Grothey, Ivan W., and Page.
- Page, Herbert E., Alhambra, Calif. Fluid operated device. 2,414,484; Jan. 21.
- Page, Herbert E., Alhambra, Calif. Drafting board. 2,414,606; Jan. 21.
- Page, Herbert E., Alhambra, Calif. Dry shaver. 2,418,722; Apr. 8.
- Page, Herbert E., Alhambra, Calif. Vehicle chassis construction. 2,421,351; May 27.
- Page, Herbert E., Pasadena, Calif. Remote control apparatus for hydraulic system. 2,425,071; Aug. 5.
- Page, Irving, New York, N. Y. Electric pressure pot and automatic cooker. 2,431,582; Nov. 25.
- Page, Irving H.: *See*—  
Violette, Richard J., and Page.
- Page, John W., Chicago, Ill., assignor to Page Engineering Company. Driving shaft and bearing support therefor in walking dragline machine. 2,420,675; May 20.
- Page, Ralph E., Poughkeepsie, assignor to International Business Machines Corporation, New York, N. Y. Manually controlled record punching machine. 2,413,884; Jan. 7.
- Page, Richard W., Chappequa, N. Y. Dental apparatus. 2,420,338; May 13.
- Page, Robert M., Washington, D. C., M. F. Distad, Cheverly, Md., and R. T. Wilson, Washington, D. C. Coupling system. 2,426,236; Aug. 26.
- Page, Thomas L., Stamford, Conn. Pruning nippers of the pull operated type. 2,423,723; July 8.
- Page, Vesero F., Seattle, Wash. Scaffold bracket. 2,425,896; Aug. 19.
- Paget, Win W., Michigan City, Ind., assignor to Joy Manufacturing Company. Apparatus for automatically controlling pressure and temperature within aircraft cabins. 2,425,000; Aug. 5.
- Paggl, Louis, Belleville, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Laminating plastic sheets. 2,417,837; Mar. 25.
- Pagliarul, Joseph N., Milwaukee, Wis. Stapling mechanism. 2,414,390; Jan. 14.
- Pagon, Garret D., Conshohocken, assignor to The Budd Company, Philadelphia, Pa. Hinge mounting. 2,421,960; June 10.
- Pahl, Leo F.: *See*—  
Enkur, Edward M., Pahl, and Lauve.
- Paige, Richard B., New York, N. Y. Head construction for collapsible tubes. 2,415,906; Feb. 18.
- Paine, Charles E., Woonsocket, R. I. Bottle closure. 2,418,723; Apr. 8.
- Paist, Walter D.: *See*—  
Horbach, William, and Paist.
- Pakala, William E., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Vapor electric device. 2,426,046; Aug. 19.
- Pakala, William E., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Ignition control system for circuit breakers. 2,432,927; Dec. 16.
- Pakala, William E., Forest Hills, and H. C. Myers, Irwin, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Vapor electric device. 2,427,738; Sept. 23.



- Pako Corporation, assignee: *See*—  
Dye, Harry M., and Maddock.  
Dye, Glen M., and Maddock.
- Paldani, George F., Waukegan, Ill. Cartridge loader. 2,426,898; Sept. 2.
- Palese, Andrew J., Wilmington, Del. Portable welding gun. 2,430,684; Nov. 11.
- Pall, David B., New York, N. Y., assignor, by mesne assignments, to American Cyanamid Company. Production of rutile titanium dioxide. 2,426,788; Sept. 2.
- Palm, Bernhard N., San Marino, assignor to Sterling Electric Motors, Inc., Los Angeles, Calif. Variable-speed transmission. 2,433,150; Dec. 23.
- Palm, Dwight M., Cleveland Heights, Ohio. Fuel feeding mechanism. 2,414,209; Jan. 14.
- Palm, Dwight M., Cleveland Heights, assignor to Towmotor Corporation, Cleveland, Ohio. Industrial truck. 2,418,661; Apr. 8.
- Palm, Frederick, Shorewood, assignor to A. O. Smith Corporation, Milwaukee, Wis. Displacement electric water heater. 2,428,466; Oct. 7.
- Palm, George H., assignor to Stewart-Warner Corporation, Chicago, Ill. Discharge pressure controlled hydraulically operated dispensing pump. 2,416,947; Mar. 4.
- Palm, George H., assignor to Stewart-Warner Corporation, Chicago, Ill. Hydraulically controlled dispensing pump. 2,428,085; Sept. 30.
- Palm, Gunnar E. F.: *See*—  
Rahm, Erik T.
- Palmer, Alva L., Bayside, N. Y. Clothes drier with collapsible supports. 2,419,226; Apr. 22.
- Palmer, Austin R., Peterborough, England, assignor to Baker Perkins Inc., Saginaw, Mich. Conveying of dough and like plastic material. 2,428,722; Oct. 7.
- Palmer-Bee Company, assignee: *See*—  
McBride, Jesse E.
- Palmer, Charles O., Bergholz, Ohio. Photographic attachment for firearms. 2,416,769; Mar. 4.
- Palmer, Earl C., Avenel, N. J., assignor to National Biscuit Company, New York, N. Y. Dough working machine. 2,431,073; Nov. 18.
- Palmer, Earl C., Avenel, N. J., assignor to National Biscuit Company, New York, N. Y. Dough working process. 2,431,074; Nov. 18.
- Palmer, Edwin, and D. S. Schwartz, Brighton, Mass.; said Schwartz now by change of name D. S. Roberts, assignors to H. Sachs and E. Palmer, Baltimore, Md., copartners trading as Moorehead Manufacturing Company. 2,420,615; May 13.
- Palmer, Ernest J.: *See*—  
Bimpson, Henry S., and Palmer.
- Palmer, George B., Grosse Ile, Mich. Material handling apparatus. 2,425,342; Aug. 12.
- Palmer, James A.: *See*—  
Stephenson, Wilbur T., and Palmer.
- Palmer, James E., Stillwater, Okla. Inking quill. 2,427,228; Sept. 9.
- Palmer, Jewell S., Wooster, Tex., assignor to Standard Oil Development Company. Settling catalysts from oil having an inert gas thereabove. 2,431,499; Nov. 25.
- Palmer, John S.: *See*—  
Borgerd, William F., and Palmer.
- Palmer, Kendrick, R. E. Kugler, and H. M. Bryans, assignors to Eastman Kodak Company, Rochester, N. Y. Forming flanged or beaded container. 2,425,390; Aug. 12.
- Palmer, Mark A., Jr.: *See*—  
Charlton, Charles F., and Palmer.
- Palmer, Oral M., South Gate, Calif. Mixing and molding device. 2,420,616; May 13.
- Palmer, Robert C., East Chicago, Ind., assignor to Sinclair Refining Company, New York, N. Y. Lubricant. 2,418,422; Apr. 1.
- Palmer, Robert C., assignor to Newport Industries, Inc., Pensacola, Fla. Extracting resinous wood. 2,424,628; July 29.
- Palmer, Robert C., assignor to Newport Industries, Inc., Pensacola, Fla. Facilitating the separation of rosin from tall oil. 2,432,332; Dec. 9.
- Palmer, Robert C., and A. F. Oliver, assignors to Newport Industries, Inc., Pensacola, Fla. Process of increasing the rosin-to-fatty acid ratio in mixtures of rosin and fatty acids. 2,432,333; Dec. 9.
- Palmer, Robert T., Sharon, assignor to B. F. Sturtevant Company, Boston, Mass. Cold air and recirculated air mixing and distributing means in an overhead air conditioning duct system. 2,422,560; June 17.
- Palmer, Roy D., assignor to Aluminum Laboratories Limited, Montreal, Quebec, Canada. Recuperative heat treatment furnace. 2,418,983; Apr. 15.
- Palmer, Russell L.: *See*—  
Hamilton, Arthur L., and Palmer.
- Palmer, Walter E., Fair Lawn, N. J. Prevention or inhibiting of ice accumulations. 2,431,885; Dec. 2.
- Palmer, William G., assignor to The Bartzis Brothers Company, Uchester, Md. Folding paperboard box. 2,414,763; Jan. 21.
- Palmeter, Harry E., Auburn, assignor to W. N. Allyn, Skaneateles, N. Y. Folding laryngoscope. 2,433,705; Dec. 30.
- Palmgren, Per Gunnar: *See*—  
Ball, Frederick S., Palmgren, and Styrl.
- Palmquist, Philip V., New Canada Township, Ramsey County, assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Transparent pressure-sensitive lenticular sheet. 2,432,928; Dec. 16.
- Palnut Company, The, assignee: *See*—  
Wohlhieter, Joseph W.
- Pal-O-Pak Insulation Company Inc., assignee: *See*—  
Soulén, Peter J.
- Palotsee, John J., Youngstown, Ohio. Blade. 2,422,434; June 17.
- Paluev, Konstantin K., Pittsfield, Mass., assignor to General Electric Company. Tank mounted lightning arrester. 2,421,644; June 3.
- Paluev, Konstantin K., Pittsfield, Mass., assignor to General Electric Company. Electric induction apparatus. 2,422,037; June 10.
- Palutzke, Estella, Glendale, Calif. Thumb guard. 2,429,563; Oct. 21.
- Pamphilon, Leon E., Yeadon, assignor to Airdesign & Fabrication, Inc., Upper Darby, Pa. Method and apparatus for detecting suspended matter in fluids. 2,419,914; Apr. 29.
- Pan A.-G., assignee: *See*—  
Wassmer, Albert.
- Pan American Refining Corporation, assignee: *See*—  
Bertetti, John W.  
Kirkbride, Chalmers G., and Hamblen.  
Lee, Robert J., and Radford.
- Pancake, Herman H., Huntington, W. Va., assignor to American Car and Foundry Company, New York, N. Y. Spring bumper and draft gear. 2,420,907; May 20.
- Pancake, Herman H., and C. G. Smith, Huntington, W. Va., assignors to American Car and Foundry Company, New York, N. Y. Constructing stub axle car bodies. 2,417,779; Mar. 18.
- Pancoe, George W.: *See*—  
Watter, Michael, and Pancoe.
- Pandoff, William S., Canton, Ohio. Bloom turning apparatus. 2,418,091; Mar. 25.
- Pangborn Corporation, assignee: *See*—  
Gossard, Charles M.  
Keefer, Walter L.  
Potter, Percy J.
- Panhandle Eastern Pipe Line Company, assignee: *See*—  
Young, Farrile S.
- Panish, Erwin J., Bridgeport, Conn. Clutch control device. 2,431,275; Nov. 18.
- Panish, Erwin J., Bridgeport, Conn. Reversing control mechanism. 2,433,235; Dec. 23.
- Panissidi, Hugo A.: *See*—  
Bailey, William J. A., and Panissidi.
- Pankey, Thomas L., Wauwatosa, and C. E. Imhoff, Calhoun Farms, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Material for treating boiler feedwater and preparation thereof. 2,430,300; Nov. 4.
- Pankowski, Robert S., La Porte, Ind. Garment support. 2,424,048; July 15.
- Pantalone, Vincent R., Hamden, Conn., assignor, by mesne assignments, to National Folding Box Company, Incorporated. Making collapsible structures. 2,426,899; Sept. 2.
- Pantazakos, Nicholas J., U. S. Army, Westwood, N. J. Printing machine. 2,423,112; July 1.
- Panteleieff, Maxim, New York, N. Y. Air-heating furnace. 2,432,038; Dec. 2.
- Panter, Carl, and J. H. Borden, Philadelphia, Pa., and P. L. Christensen and W. W. Holler, Washington, D. C. Grenade adapter. 2,423,993; July 15.
- Pantex Manufacturing Corporation, assignee: *See*—  
Beede, Herbert G.  
Monsarrat, Nicholas.
- Papalexis, James, Ashtabula, and O. W. Johnson, Geneva, Ohio. Attachment for holding bags and other articles. 2,420,263; May 6.
- Papay, Charles R., Rocky River, assignor to Designers for Industry, Inc., Cleveland, Ohio. Cooling unit. 2,425,119; Aug. 5.
- Paper and Industrial Appliances, Inc., assignee: *See*—  
Beveridge, James B., and Kehoe.  
Beveridge, James B., Kehoe, and Surino.
- Paper Patents Company, assignee: *See*—  
Du Bois, Horace A.
- Paper Strap, Inc., assignee: *See*—  
Crary, Jay D.
- Papercrete Limited, assignee: *See*—  
Newbould, Maurice G. R.
- Papish, A., Inc., assignee: *See*—  
Weissman, Milton.
- Paquin, Joseph N., Euclid, assignor to The Weatherhead Company, Cleveland, Ohio. Fitting. 2,420,617; May 13.
- Paraffine Companies, Inc., The, assignee: *See*—  
Abrahams, Samuel A., Lewon, and Dinkfeld.  
Paragon Utilities Corp., assignee: *See*—  
Dellon, Earl.
- Paramount Textile Machinery Co., assignee: *See*—  
Mann, Arthur S.  
Richter, William.
- Paraphone Hearing Aid, Inc., assignee: *See*—  
Tresise, Raleigh E., and Kendall.
- Parco Lighting Equipment Co., Inc., assignee: *See*—  
Parlato, Peter J.
- Pardee, Edward A., assignor, by mesne assignments, to Shellmar Products Corporation, Mount Vernon, Ohio. Folding and sealing sheet material. 2,432,122; Dec. 9.



- Parilla, Arthur R., Dearborn, Mich., and A. Peters, New York, N. Y. Fluid apparatus. 2,428,809; Oct. 14.
- Parine, Louis M., Detroit, Mich. Rotary pump. 2,430,362; Nov. 4.
- Paris, August F., Brockway, Pa. Garment finishing apparatus. 2,417,838; Mar. 25.
- Parish, Frank P., Taneytown, Md. Machine for forming tampons. 2,433,675; Dec. 30.
- Pariset, Jean F., Paris, France, assignor to Societe Le Carbone Lorraine. Anodes for intensive arcs. 2,422,038; June 10.
- Parizo, Bert, East Hartford, assignor of one-half to W. D. Abbott, West Hartford, Conn. Receiver for nut removing tools. 2,416,882; Mar. 4.
- Park, George R., Menaca, Pa. Apparatus for removing meltable metal from articles. 2,421,804; June 10.
- Park, Joseph D.: See—  
Benning, Anthony F., and Park.
- Park, Paul, Campo, Calif. Camera light protecting sleeve. 2,420,719; May 20.
- Park, Robert H., Washington, D. C., and J. K. Dixon, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y. Analysis of nitrous gases. 2,417,321; Mar. 11.
- Park, Wallace S., Louisville, Ky. Aerial trainer. 2,428,432; Oct. 7.
- Parke, Davis & Company, assignee: See—  
Burckhalter, Joseph H., Rawlins, Tendick, Jones, and Holcomb.  
Crooks, Harry M., Jr.  
Marker, Russell E.  
Marker, Russell E., and Lawson.  
Marker, Russell E., and Wittle.  
Rieveschl, George, Jr.  
Seegers, Walter H.  
Springett, Thurston R.
- Parker, Alton B., Houston, Tex. Lens attachment for cameras. 2,426,521; Aug. 26.
- Parker Appliance Company, The, assignee: See—  
Carbon, Harry B.  
Chavayda, Joseph J.  
Fink, Frank J.  
Hartley, Emmett C.  
Hartley, Emmett C., and Ivins.  
Hull, Henry E., and Hartley.  
Maky, Walter.  
Melichar, Joseph F.  
Parker, Arthur L.  
Parker, Arthur L., and Di Tirro.  
Vandervoort, Lorain N.  
Wolfman, John N.  
Zarobsky, Charles A.
- Parker, Arthur L., deceased, Cleveland, by H. M. Parker, executrix, Shaker Heights, assignor to The Parker Appliance Company, Cleveland, Ohio. Fluid pressure operated valve. 2,426,900; Sept. 2.
- Parker, Arthur L., assignor to The Parker Appliance Company, Cleveland, Ohio. Coupling for tubes having means for dampening vibrations therein. 2,428,176; Sept. 30.
- Parker, Arthur L., assignor to The Parker Appliance Company, Cleveland, Ohio. Quick opening check valve assembly. 2,431,769; Dec. 2.
- Parker, Arthur L., and D. A. Di Tirro, assignors to The Parker Appliance Company, Cleveland, Ohio. Hydraulic relief valve. 2,415,258; Feb. 4.
- Parker, Carlyle V., Sunnyside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Secondary emissive shell resonator tube. 2,416,303; Feb. 25.
- Parker, Cola G., assignee: See—  
Pearl, Irwin A.
- Parker, Harry, Kings Heath, Birmingham, and T. C. E. Rowland, Solihull, England. Apparatus for delivering liquids and viscous materials. 2,420,970; May 20.
- Parker, Helen, executrix: See—  
Parker, Arthur L.
- Parker, Henry C., assignee: See—  
Wyscaver, Floyd J.
- Parker, John B., Leaksville, N. C., assignor of forty per cent to T. K. Sawyer, Norfolk, Va. Pressure controlled switch. 2,415,034; Jan. 28.
- Parker, Leslie K., Liverpool, England, assignor to Automatic Electric Laboratories Inc., Chicago, Ill. Grid structure for electron discharge tubes. 2,421,161; May 27.
- Parker Manufacturing Company, assignee: See—  
Lenk, Kurt H.
- Parker, Milton E., Barrington Township, Cook County, Ill., and P. W. Bonewitz, Burlington, Iowa, assignors of one-half to P. W. Bonewitz and one-half to B. M. Bonewitz. Cleaning containers. 2,424,049; July 15.
- Parker Pen Company, The, assignee: See—  
Randolph, Robert W.
- Parker, Robert L., Jr., Los Angeles, and H. C. Huffman, Long Beach, assignors to Union Oil Company of California, Los Angeles, Calif. Catalytic dehydrogenation of hydrocarbons. 2,426,118; Aug. 19.
- Parker, Robert P.: See—  
Goulding, John P., Parker, and Denton.
- Parker, Robert P., Somerville, and C. M. Hofmann, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Sulfonfluorides of azolic dyestuffs. 2,427,995; Sept. 23.
- Parker, Robert P., Somerville, N. J., and A. J. Hill, New Haven, Conn., assignors to American Cyanamid Company, New York, N. Y. Alkamine derivatives of meta amino methyl benzoic acid. 2,428,239; Sept. 30.
- Parker, Robert P., Somerville, N. J., and A. J. Hill, New Haven, Conn., assignors to American Cyanamid Company, New York, N. Y. Alkamine derivatives of ortho amino methyl benzoic acid. 2,429,275; Oct. 21.
- Parker, Royden W., Haddonfield, N. J. Soldering iron. 2,423,900; July 15.
- Parker Rust Proof Company, assignee: See—  
Gordon, Robert H.  
Thompson, John S., and Tanner.
- Parker, Samuel P., assignor to Callaway Mills, La Grange, Ga. Tufting device. 2,422,125; June 10.
- Parker, Samuel P., assignor to Callaway Mills, La Grange, Ga. Tufting device. 2,422,126; June 10.
- Parker, Thomas L., assignor to The Standard Electric Manufacturing Co., Chicago, Ill. Toggle iron plug switch. 2,430,138; Nov. 4.
- Parker, Will D., Bartlesville, Okla., assignor to Phillips Petroleum Company. Hydraulically controlled cowl ring for aircraft. 2,417,945; Mar. 25.
- Parker, William H., Millville, N. J. Firearm chamber loading indicator. 2,416,712; Mar. 4.
- Parkersburg Rig & Reel Company, The, assignee: See—  
Dake, George E., and Spelden.  
De La Mater, Robert G.
- Parke, Deric W., and L. A. M. Ford, West Bromwich, assignors to Robinson Brothers Limited, Oldbury, Birmingham, England. Removal of carbon disulphide from a hydrocarbon liquid. 2,418,047; Mar. 25.
- Parkes, John J., and E. R. Durbee, Hatfield, assignors to The De Havilland Aircraft Company Limited, Hatfield, Hertfordshire, England. Control arrangement for aircraft power units. 2,430,363; Nov. 4.
- Parkes, Stanley: See—  
Kamper, Andrew M., and Parkes.
- Parkin, Fremont P., and G. N. Walker, assignors to Minnesota Linseed Oil Paint Company, Minneapolis, Minn. Winterizing vegetable oils. 2,425,001; Aug. 5.
- Parkin, Leslie, Nottingham, England, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Adjustable fastener stud. 2,425,636; Aug. 12.
- Parkinson, Alexander: See—  
Haddock, Norman H., Jones, Parkinson, and Rowe.  
Haddock, Norman H., Parkinson, and Rowe.
- Parkinson, David B., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Call transmitter. 2,416,713; Mar. 4.
- Parkinson, David B., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Potentiometer circuit. 2,417,442; Mar. 13.
- Parkinson, Eric, New York, N. Y. Wheel mount for aircraft landing gears. 2,433,706; Dec. 30.
- Park-O-Mat, Inc., assignee: See—  
Sinclair, Richard L.
- Parks, Henry E.: See—  
Parks, Henry U. L. and H. E.
- Parks, Henry U. L., and H. E., Indianapolis, Ind. Combined curtain, drape, and shade. 2,420,149; May 6.
- Parks, Leon H., Talladega Springs, Ala. Tool container formed in interlocking sections. 2,419,587; Apr. 29.
- Parks, Wesley E., Bedford, H. Heckendorf and E. J. Holzberger, assignors, by mesne assignments, to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Grinding machine attachment. 2,429,893; Oct. 28.
- Parlato, Peter J., Harrington Park, N. J., assignor to Parco Lighting Equipment Co., Inc., New York, N. Y. Fluorescent lighting fixture. 2,432,334; Dec. 9.
- Parlini, Alexander C.: See—  
O'Toole, Richard F., and Parlini.
- Parmelee, Alfred E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification of tetra ethyl lead. 2,426,789; Sept. 2.
- Parmelee, Paul: See—  
Folberth, William M., and Parmelee.
- Parr, Josephus O., Jr., assignor to O. S. Petty, San Antonio, Tex. Seismic surveying. 2,424,705; July 29.
- Parrett, Arthur N.: See—  
Holloway, Judson H., Tabke, and Parrett.
- Parrett, Dent, assignor, by mesne assignments, to The Lambert Brake Corporation, St. Joseph, Mich. Brake control. 2,418,048; Mar. 25.
- Parrish, William C., Park Ridge, assignor to Stewart-Warner Corporation, Chicago, Ill. Heat exchanger. 2,418,191; Apr. 1.
- Parrish, William C., Park Ridge, assignor to Stewart-Warner Corporation, Chicago, Ill. Internal-combustion heater with spiral type heat exchanger. 2,432,929; Dec. 16.
- Parry, Edryd G., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Preparation of ethylenebisiminodiacetic acid and salts thereof. 2,419,157; Apr. 15.
- Parry, Frank, and B. P. Pinkvoss, Bridgeport, Conn., assignors to The Singer Manufacturing Company, Elizabeth, N. J. Overload release clutch for sewing machine. 2,425,120; Aug. 5.
- Parry, George, U. S. Navy. Scupper connection. 2,428,381; Oct. 7.
- Parry, Vernon F., Golden, Colo., assignor to the United States of America, as represented by the Secretary of the Interior. System for heating liquids. 2,424,844; July 29.



- Pars, Frank L., Brooklyn, N. Y. Valve. 2,424,328; July 22.
- Parsons, A. J.: *See*—  
Minchin, Cecil W. H., and Parsons.
- Parsons Company, The, assignee: *See*—  
Lichtenberg, Erich H.  
Vaughn, George A.
- Parsons, Edgar B., Norristown, Pa. Auxiliary stock for pistols. 2,433,151; Dec. 23.
- Parsons Engineering Corporation, assignee: *See*—  
Peck, Cecil C., and Burdick.
- Parsons, John B., Toledo, Ohio. Guide device for vehicle doors. 2,416,118; Feb. 18.
- Parsons, John B., Toledo, Ohio. Compensating device for rotary pumps. 2,417,701; Mar. 18.
- Parsons, John B., Toledo, Ohio. Hydraulic regulator mechanism for vehicle windows or the like. 2,425,391; Aug. 12.
- Parsons, John B., Toledo, Ohio. Conduit guide device for vehicles. 2,425,823; Aug. 19.
- Parsons, John B., assignor to M. W. Fraser, Toledo, Ohio, as trustee. Window regulator mechanism. Re. 22,933; Nov. 11.
- Parsons, John B., assignor to M. W. Fraser, trustee, Toledo, Ohio. Electromagnetic pump for internal-combustion engines. 2,416,843; Mar. 4.
- Parsons, Joseph R.: *See*—  
Ruthman, Kenneth S., and Parsons.
- Parsons, Robert J., Schenectady, assignor to Consolidated Car Heating Company, Inc., Albany, N. Y. Damper control. 2,422,312; June 17.
- Parsons, Thomas, Oakland, Calif., assignor to Pacific Bridge Company. Production of chromium hydroxide. 2,431,075; Nov. 18.
- Partin, Albert, Livingston, Mont. Wrench. 2,417,377; Mar. 11.
- Partin, Albert, Livingston, Mont. Container with discharge passage arranged for measuring by tipping. 2,426,119; Aug. 19.
- Partin, George H., Memphis, Tenn. Parking meter. 2,416,212; Feb. 18.
- Partin, George H., Memphis, Tenn. Parking meter. 2,416,213; Feb. 18.
- Partington, James: *See*—  
Bruce, Alfred W., and Partington.
- Partington, Walter, Sheffield, assignor to Metropolitan-Vickers Electrical Company Limited, London, England. Regulating system. 2,421,645; June 3.
- Parton, Agnes, New York, N. Y. Loom construction, and more particularly a new and useful shed forming mechanism. 2,414,663; Jan. 21.
- Parvin, Edward G., Beach Haven, N. J. Reeling control mechanism. 2,417,780; Mar. 18.
- Parvin, James H.: *See*—  
Molz, August W., and Parvin.
- Pascale, Vito R.: *See*—  
Harris, Leonard B., and Pascale.
- Pascale, Vito R., New York, N. Y. Adjustable hat shaping form. 2,432,930; Dec. 16.
- Paschal, Guy, Sarasota, Fla. Game piece. 2,414,165; Jan. 14.
- Pasco, George E., Euclid, Ohio, assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Seal for rotary shafts. 2,419,588; Apr. 29.
- Pascoe, Frank T., Carnegie, and A. L. Jerome, Edgewood, assignors to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling apparatus. 2,422,127; June 10.
- Pascoe, Alex, New York, N. Y. Garment rack. 2,431,196; Nov. 18.
- Pask, Stanley J., Long Island City, assignor to Grant Photo Products, Inc., New York, N. Y. Photographic film developing apparatus. 2,419,853; Apr. 29.
- Passel, Morris J., Yonkers, N. Y. Furniture arm protector. 2,418,092; Mar. 25.
- Passino, Herbert J., Englewood, and J. S. Rearick, Short Hills, assignors to The M. W. Kellogg Company, Jersey City, N. J. Liquid phase catalytic reactions of hydrocarbons. 2,423,045; June 24.
- Passino, Herbert J., Englewood, and H. G. McGrath, Elizabeth, assignors to The M. W. Kellogg Company, Jersey City, N. J. Catalytic conversion of alkyl aromatic hydrocarbons. 2,425,559; Aug. 12.
- Pasterneck, Richard, Islip, N. Y., and P. P. Regna, West New York, N. Y., assignors to Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Purification of penicillin. 2,430,946; Nov. 18.
- Pastoor, Charles: *See*—  
Van Den Bergh, William, Johnson and Pastoor.
- Pasturczak, Harry S., East Moline, Ill. Camera mounting. 2,424,499; July 22.
- Patasnik, Charles, Chicago, Ill. Fabric mending device. 2,432,629; Dec. 16.
- Patch, Orin G., Coulee Dam, Wash. Compression machine. 2,414,550; Jan. 21.
- Patchett, George W., Chigwell, England. Folding stock for automatic firearms. 2,424,944; July 29.
- Patchett, George W., Chigwell, England. Breach bolt for firearms. 2,425,684; Aug. 12.
- Patchett, George W., Chigwell, England. Recoil mechanism for automatic firearms. 2,426,563; Aug. 26.
- Patchett, George W., Chigwell, England. Fire controlling mechanism for automatic firearms. 2,432,486; Dec. 9.
- Patchogue-Plymouth Mills Corporation, assignee: *See*—  
Fischel, Lester.  
Lambert, Ernest E.  
Petroske, John J.
- "Patelhold" Patentverwertungs & Elektro-Holding A.-G., assignee: *See*—  
Graf, Max.
- Patent and Licensing Corporation, The, assignee: *See*—  
Kirschbraun, Lester.  
Sass, Otto, and Lemire.  
Young, Erving M.
- Patent Scaffolding Co., Inc., The, assignee: *See*—  
Geer, Hobart S.
- Patents Promotions Corporation, assignee: *See*—  
Stanton, Samuel J.
- Pateras Pescara, Raul, Lisbon, Portugal. Compressed air installation. 2,414,166; Jan. 14.
- Pateras Pescara, Raul, Lisboa, Portugal. Power plant. 2,415,110; Feb. 4.
- Paterak, William, St. Paul, Minn., assignor to Archer-Daniels-Midland Company. Protein and drying oil emulsions. 2,433,783; Dec. 30.
- Paterson, Carl J.: *See*—  
Clark, Homer T., and Paterson.
- Paterson, Ira W., Milton, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Switch operating mechanism. 2,420,441; May 13.
- Patnaude, Frank, Warwick, assignor, by mesne assignments, to Cread Engineering and Research Company, Cranston, R. I. Rotary swaging machine. 2,433,152; Dec. 23.
- Paton, John R.: *See*—  
Bach, Robert G., and Paton.
- Patrick, Isaac, assignor to E. W. Bliss Company, Brooklyn, N. Y. Operating mechanism for presses. 2,417,781; Mar. 18.
- Patrick, John A., assignor to Crane Co., Chicago, Ill. Dolly lifting device. 2,421,365; May 27.
- Patrick, Joseph C., Morrisville, Pa., assignor to Thiokol Corporation, Trenton, N. J. Making triglycol dichloride. 2,421,903; June 10.
- Patrick, Joseph C., Morrisville, Pa., assignor to Thiokol Corporation, Trenton, N. J. Oriented polysulfide polymers. 2,425,045; Aug. 5.
- Pattee, John R., assignor to The Bristol Company, Waterbury, Conn. Magnetic structure for electrical instruments. 2,427,571; Sept. 16.
- Patten, Asher H., Denver, Colo. Match pack container. 2,427,367; Sept. 16.
- Patterson, Alonzo C.: *See*—  
Levey, Harold A., and Patterson.
- Patterson, Alvis R., Port Saint Joe, Fla. Water and sun-proofing paper and textiles and the composition to be used in the method. 2,414,327; Jan. 14.
- Patterson, Cecil E., Mansfield, Ohio, assignor to The Galion Iron Works & Manufacturing Company. Power earth mover. 2,416,592; Feb. 25.
- Patterson, Fred W., assignee: *See*—  
Patterson, William M.
- Patterson, Gloria B.: *See*—  
Sandberg, Carl R., and Patterson.
- Patterson, Gordon D., Wilmington, and C. K. Sloan, Thornton, Pa., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Chromite ore pigment. 2,416,064; Feb. 18.
- Patterson, Henry B., and V. T. Thomas, Los Angeles, Calif., assignors to American Can Company, New York, N. Y. Spring testing device. 2,415,440; Feb. 11.
- Patterson Industries Incorporated, assignee: *See*—  
Patterson, William N.
- Patterson, James M., Jennings, assignor to Central Mine Equipment Co., St. Louis, Mo. Handle coupling socket. 2,417,517; Mar. 18.
- Patterson, John A.: *See*—  
Knowles, Edwin C., McCoy, and Patterson.
- Patterson, John A., Westfield, N. J., assignor to Standard Oil Development Company. Recovery of hydrocarbons and acetone from admixtures by phase separation and azeotropic distillation. 2,423,795; July 8.
- Patterson, John A., Westfield, N. J., assignor to Standard Oil Development Company. Segregation of olefinic hydrocarbons by extractive distillation. 2,426,706; Sept. 2.
- Patterson, John A., Wappingers Falls, assignor to The Texas Company, New York, N. Y. Manufacture of lubricating oil. 2,432,440; Dec. 9.
- Patterson, John A., Westfield, and H. W. Scheeline, Elizabeth, N. J., assignors to Standard Oil Development Company. Recovery of isoprene by fractionation and extractive distillation. 2,426,705; Sept. 2.
- Patterson, Lola M., New Bremen, Ohio. Knee protector. 2,423,849; July 15.
- Patterson, Robert J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Isomerization of normal butane. 2,416,019; Feb. 18.
- Patterson, Vivian A., Opelousas, La. Garment shoulder strap and fastening means therefor. 2,423,046; June 24.
- Patterson, Wilbur I.: *See*—  
Harris, Milton, and Patterson.
- Patterson, William E., Miami, Fla. Electric lamp socket. 2,417,518; Mar. 18.



- Patterson, William M., Ravenna, assignor of one-half to F. W. Patterson, Coshocton, Ohio. Nursing nipple and bottle. 2,424,629; July 29.
- Patterson, William N., assignor to Patterson Industries Incorporated, Detroit, Mich. Airplane wing deicer. 2,422,746; June 24.
- Pattinson, Charles B., Jr.: *See—*  
Rocchini, Albert G., and Pattinson.
- Patton, Benjamin B., Philadelphia, Pa., assignor to the United States of America, as represented by the Secretary of War. Mechanical time fuse structure. 2,421,390; June 3.
- Paul, Hubert W., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Window sash. 2,416,269; Feb. 18.
- Paul, Joseph N., Norwalk, assignor to Automatic Signal Corporation, East Norwalk, Conn. Signal. 2,417,443; Mar. 18.
- Paul, Peter, Inc., assignee: *See—*  
Zeun, Louis H.
- Paul, Philip T., and B. A. Hunter, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y. Manufacture of sulfenamides. 2,419,283; Apr. 22.
- Paul, Philip T., and B. A. Hunter, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y. Substituted thiocarbamo sulfenamides. 2,421,352; May 27.
- Paul, Talbert W., Moline, Ill., assignor to The Van Brunt Manufacturing Co., Horicon, Wis. Grain drill. 2,416,403; Feb. 25.
- Paul, Wanda L., New York, N. Y. Leakproof dry cell. 2,419,589; Apr. 29.
- Paul, William M., Mentor-on-the-Lake, assignor to Designers For Industry, Inc., Cleveland, Ohio. Speed indicating apparatus. 2,430,825; Nov. 11.
- Paulin, Anton, assignee: *See—*  
Smith, Adelbert B.
- Pauling, Linus, assignor to California Institute Research Foundation, Pasadena, Calif. Apparatus for determining the partial pressure of oxygen in a mixture of gases. 2,416,344; Feb. 25.
- Pauls, Edwin A., Gary, Ind., assignor to Carnegie-Illinois Steel Corporation. Working pass control for rolling mills. 2,430,410; Nov. 4.
- Paulsen, Clarence W., Taft, Calif. Sampler. 2,426,369; Aug. 26.
- Paulsen, Hans C., Medford, assignor to B. B. Chemical Co., Boston, Mass. Ribbed insole. 2,427,739; Sept. 23.
- Paulsen, Henry C.: *See—*  
Hewlett, Amiot P., and Paulsen.
- Paulsen, Robert M.: *See—*  
Hoover, Walter R., Paulsen, and Landgraf.
- Paulson, James E., Long Beach, Calif. Electrode holder. 2,419,789; Apr. 29.
- Paulson, Walter H., assignor to The Lathrop-Paulson Company, Chicago, Ill. Can washing machine. 2,432,584; Dec. 16.
- Paulus, Charles L.: *See—*  
Fink, Rudolph, Holloman, and Paulus.
- Pavelka, Joseph, assignee: *See—*  
McCullough, Paul J.
- Steuber, Charles H., and McCullough.
- Pavelle Color Incorporated, assignee: *See—*  
Rabinowitz, Jacob.
- Pavements Reclaiming Corporation, The, assignee: *See—*  
Chester, William F.
- Pavitt, Frederick J., Brighton 7, England. Over-current and under-current protective switch. 2,431,886; Dec. 2.
- Pavitt, Harry A., assignor to Simonds Saw and Steel Co., Fitchburg, Mass. Saw blade. 2,422,561; June 17.
- Pavlecka, Vladimir H., Pacific Palisades, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Hydraulic turbine type torque converter and fluid coupling. 2,416,948; Mar. 4.
- Pavlecka, Vladimir H., Pacific Palisades, and J. K. Northrop, Los Angeles, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. Compressor. 2,414,551; Jan. 21.
- Pavlik, Albert, assignee: *See—*  
Lazier, Wilbur A., Pavlic, and Peppel.
- Rentschler, Mahlon J.
- Pavlis, Edward A.: *See—*  
Frost, Frank E., and Pavlis.
- Pavlish, Arnold E., and C. R. Austin, assignors to Battelle Memorial Institute, Columbus, Ohio. Selenium-containing glass. 2,414,413; Jan. 14.
- Pavlovic, Joseph, Minneapolis, Minn. Abrading tool. 2,415,367; Feb. 4.
- Pawelsky, Vernon R.: *See—*  
Johnson, Roy W., McCarty, and Pawelsky.
- Pawlowisk, Felix W., Ann Arbor, Mich. Screw propeller. 2,426,742; Sept. 2.
- Paxman, Edward P., Colchester, England. Construction of internal-combustion engines. 2,429,105; Oct. 14.
- Paxman, Edward P., Colchester, England. Construction of internal-combustion engines. 2,429,106; Oct. 14.
- Paxman, Edward P., Colchester, England. Supporting internal-combustion engines to facilitate adjustment and repair. 2,432,487; Dec. 9.
- Paxson, Frank M., assignor to Continental Oil Company, Ponca City, Okla. Device for removing tubes from heat exchange assemblies. 2,430,733; Nov. 11.
- Paxton, Arlie L., executor: *See—*  
Paxton, John W. and G. N., and Cornish.
- Paxton, Floyd G., Riverside, Calif. Plant propagating pot and making same. 2,423,724; July 8.
- Paxton, George N.: *See—*  
Paxton, John W. and G. N., and Cornish.
- Paxton, John W.: *See—*  
Salsman, Thomas J., and Paxton.
- Paxton, John W. and G. N., Bloomington, and I. R. Cornish, Elmhurst, A. L. Paxton and The National Bank of Bloomington, Bloomington, Ill., executors of said G. N. Paxton, deceased. Filing cabinet with tiltable compartment. 2,420,010; May 6.
- Paxton, John W. and G. N., Bloomington, and I. R. Cornish, Elmhurst; A. L. Paxton and The National Bank of Bloomington, Bloomington, Ill., executors of said G. N. Paxton, deceased. Filing cabinet with tiltable compartment. 2,420,011; May 6.
- Payn, Russell C., Watford, E. Jones, Ardrossan, and J. S. Flanders, West Kilbride, Scotland, assignors to Imperial Chemical Industries Limited. Deflagrating compositions. 2,423,427; July 1.
- Payne, Donald E., Chicago, and V. Voorhees, Homewood, assignors to Standard Oil Company, Chicago, Ill. Sweetening process. 2,431,770; Dec. 2.
- Payne, Ernest, Denver, Colo. Tool for punching metal roofing. 2,418,984; Apr. 15.
- Payne, Frank E., Glencoe, assignor to Crane Packing Company, Chicago, Ill. Fluid seal unit. 2,426,047; Aug. 19.
- Payne, John W.: *See—*  
Lechthaler, Charles H., and Payne.
- Simpson, Thomas P., Payne, and Crowley.
- Simpson, Thomas P., Payne, and Evans.
- Payne, John W., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Regeneration of contact mass materials. 2,416,214; Feb. 18.
- Payne, John W., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Continuous catalytic operation. 2,430,245; Nov. 4.
- Payne, Oscar V., Leicester, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Letoff mechanism for looms. 2,419,419; Apr. 22.
- Payne, Oscar V., Leicester, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Power driven letoff for looms. 2,421,961; June 10.
- Payne, Oscar V., Leicester, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Photoelectric weft detector for looms. 2,431,340; Nov. 25.
- Payne, Oscar V., Leicester, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detecting system for looms. 2,432,171; Dec. 9.
- Payne, Oscar V., Leicester, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Photoelectric weft detector for looms. 2,432,793; Dec. 16.
- Payne, Paul D., Irvington, N. J., assignor to Roovers Bros., Inc., Brooklyn, N. Y. Marking and punching tool. 2,415,526; Feb. 11.
- Peabody Engineering Corporation, assignee: *See—*  
Harmon, Robert R.
- Peacock, Arnold L., and C. L. Sinclair, Danvers, assignors to Sylvania Electric Products Inc., Salem, Mass. Glow starter for electric discharge devices. 2,432,488; Dec. 9.
- Peacock, Cyril H., London, England. Snare drum adjustment. 2,430,184; Nov. 4.
- Peacock, James V. L., Columbus, Ga. Vehicle wheel. 2,432,675; Dec. 16.
- Peake, John S., Midland, and G. T. Sermon, Bay City, assignors to The Dow Chemical Company, Midland, Mich. Electric furnace for melting magnesium and its alloys. 2,429,959; Oct. 28.
- Peaker, Charles R., Union City, Conn., assignor to United States Rubber Company, New York, N. Y. Manufacture of articles of rubberlike material. 2,414,391; Jan. 14.
- Peale, Rembrandt, Jr.: *See—*  
Peale, Richard and R.
- Peale, Richard, Clearfield, Pa., and R. Peale, Jr., Greenwich, Conn., assignors to R. Peale, Clearfield, Pa., and R. Peale, Jr., Greenwich, Conn., as trustees. Apparatus for mining and loading coal. 2,430,364; Nov. 4.
- Pearce, Lewis C., Berea, assignor to Standard Envelope Manufacturing Company, Cleveland, Ohio. Punching machine. 2,424,187; July 15.
- Pearce, Owen A.: *See—*  
McClew, John W., and Pearce.
- Pearce, Stanley R., assignee: *See—*  
Wright, Stanley.
- Pearce, Stephen F.: *See—*  
Brookman, Ernest F., and Pearce.
- Pearl, Irwin A.: *See—*  
Brauns, Friedrich E., and Pearl.
- Lewis, Harry F., and Pearl.
- Pearl, Irwin A., Appleton, assignor, by mesne assignments, to C. G. Parker, Neenah, Wis., as trustee. Production of vanillic acid. 2,414,119; Jan. 14.
- Pearl, Irwin A., Appleton, assignor, by mesne assignments, to C. G. Parker, Neenah, Wis., as trustee. Production of vinillyl alcohol. 2,414,120; Jan. 14.
- Pearl, Irwin A., assignor, by mesne assignments, to Sulphite Products Corporation, Appleton, Wis. Production of vanillic acid (silver oxide process). 2,419,158; Apr. 15.
- Pearl, Irwin A., assignor, by mesne assignments, to Sulphite Products Corporation, Appleton, Wis. Recovery of vanillic acid. 2,431,419; Nov. 25.
- Pearl, Sherman S., Chelan, Wash. Fruit picking device. 2,421,962; June 10.



- Pearlstein, Joseph: *See*—  
Short, Frank, and Pearlstein.
- Pearsall, David E., Avon, assignor to The Ensign-Bickford Company, Simsbury, Conn. Slow-burning powder composition. 2,416,639; Feb. 25.
- Pearsall, Howard W., Detroit, Mich., assignor to Ethyl Corporation, New York, N. Y. Making lead alkyls. 2,414,058; Jan. 7.
- Pearson, Ben, Pine Bluff, Ark. Archery bow. 2,426,283; Aug. 26.
- Pearson, David E., Chicago, Ill. Bumper bracket or support. 2,432,249; Dec. 9.
- Pearson, Frederick A., assignee: *See*—  
Foster, Karl M.
- Pearson, Gerald L., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Resistor. 2,421,759; June 10.
- Pearson, Henry F., Langhorne, assignor to Röhm & Haas Company, Philadelphia, Pa. Instrument lens and dial. 2,430,616; Nov. 11.
- Pearson, James J., Tulsa, Okla. Wind operated rotatable sign. 2,417,122; Mar. 11.
- Pearson, John H.: *See*—  
Young, De Walt S., and Pearson.
- Pearson, Martin L., Reistertown, Md. Signal device for melting pots. 2,428,635; Oct. 7.
- Pearson, Paul E., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Side seam for sheet metal can bodies. 2,424,188; July 15.
- Pearson, Paul E., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Detecting and ejecting packing strip applying machines. 2,425,637; Aug. 12.
- Pearson, Paul E., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Can spout soldering machine. 2,432,794; Dec. 16.
- Pearson, Paul E., and R. M. Mero, Chicago, Ill., assignors to Continental Can Company, Inc., New York, N. Y. Can body maker. 2,429,169; Oct. 14.
- Pearson, Paul E., and A. Treff, Chicago, Ill., assignors to Continental Can Company, Inc., New York, N. Y. Spraying cone tops. 2,432,795; Dec. 16.
- Pearson, Paul E., and A. Treff, Chicago, Ill., assignors to Continental Can Company, Inc., New York, N. Y. Apparatus for filling containers with measured charges of material. 2,433,061; Dec. 23.
- Pearson, Thomas F., Fort Worth, Tex. Sling-type projector. 2,430,685; Nov. 11.
- Pearson, William J., Los Angeles, Calif., assignor to Meter Recorder Company, Carson City, Nev. Meter recorder and cost computer. 2,425,072; Aug. 5.
- Pease, Charles F., Los Angeles, Calif. Dispensing apparatus. 2,425,487; Aug. 12.
- Pease, Fred F., Squantum, assignor to Lever Brothers Company, Cambridge, Mass. Bar trimmer. 2,413,995; Jan. 7.
- Pease, Frederick A., Jr.: *See*—  
Snyder, Jacob R., and Pease.
- Peavey, Ernest E., Bangor, Maine. Storm window or screen hanger. 2,426,842; Sept. 2.
- Peavy, Claude C., Summit, N. J., and J. Happel, Brooklyn, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated. Recovery of hydrogen fluoride. 2,426,841; Sept. 2.
- Peberdy, Roland: *See*—  
Manger, Charles F., Buswell, and Peberdy.
- Pecher, Lawrence H., Akron, Ohio. Fishing lure. 2,423,615; July 8.
- Pechukas, Alphonse, Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Manufacturing thionyl chloride. 2,431,823; Dec. 2.
- Pechukas, Alphonse, Akron, and P. J. Gegner, Barberton, Ohio, assignors to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Preparing coated compositions. 2,420,720; May 20.
- Peck, Cecil C., and N. E. Burdick, assignors to Parsons Engineering Corporation, Cleveland, Ohio. Making rollers. 2,429,293; Oct. 21.
- Peck, John McC., U. S. Navy. Adhesive bandage. 2,432,541; Dec. 16.
- Peck, Lee H., Chagrin Falls, Ohio. Approach signal system. 2,428,290; Sept. 30.
- Peck, Samuel A., Cleveland Heights, assignor to The Trundle Engineering Company, Cleveland, Ohio. Examining device. 2,432,796; Dec. 16.
- Peck, William F., Buffalo, N. Y., assignor, by mesne assignments, to American Optical Company, Southbridge, Mass. Sealing optical instruments. 2,421,805; June 10.
- Peck, William F., G. F. Schenk, and H. A. Maier, Buffalo, N. Y., assignors, by mesne assignments, to American Optical Company, Southbridge, Mass. Projection apparatus. 2,415,305; Feb. 4.
- Peck, William F., Buffalo, and K. W. Harper, East Aurora, N. Y., assignors, by mesne assignments, to American Optical Company, Southbridge, Mass. Attachment means for binocular prisms and the like. 2,430,779; Nov. 11.
- Peck, William F., and A. A. Gradsar, Buffalo, N. Y., assignors to American Optical Company, Southbridge, Mass. Corneal aligning means for trial frames. 2,432,676; Dec. 16.
- Pecker, Anne G., assignee: *See*—  
Pecker, Joseph S. and E. A.
- Pecker, Edwin A.: *See*—  
Pecker, Joseph S. and E. A.
- Pecker, Joseph S., assignor to Machine & Tool Designing Company, Philadelphia, Pa. Apparatus for fabricating parts by bonding strips of material. 2,422,979; June 24.
- Pecker, Joseph S. and E. A., assignors of one-half to A. G. Pecker, Philadelphia, Pa. Liquid starch compositions and preparing the same. 2,424,050; July 15.
- Pecker, Joseph S. and E. A., Philadelphia, Pa. Hub for rotary wing aircraft and the like. 2,432,441; Dec. 9.
- Peckham, David H., Madison, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Protective means for carrier wave transmitting systems. 2,426,579; Aug. 26.
- Peckham, Paul L., Glendale, Calif. Combined folding table and seat. 2,421,127; May 27.
- Peckham, Ralph P., Jr., Detroit, Mich. Cutting tool. 2,418,790; Apr. 8.
- Pedersen, Charles J.: *See*—  
Downing, Frederick B., and Pederson.  
Hamilton, Lyle A., and Pedersen.  
Shipp, Joseph H., Bacon, and Pedersen.  
Shipp, Joseph H., and Pedersen.
- Pedersen, John, Mexico, Mo. Dishwashing machine. 2,424,770; July 29.
- Pedersen, Mathias, Brooklyn, N. Y., assignor to American Machine and Foundry Company. Sewing mechanism. 2,422,208; June 17.
- Pedrick Tool & Machine Company, assignee: *See*—  
Shaw, Ralph M., Jr.
- Peebles, David D., Hillsborough, assignor to Golden State Company, Ltd., San Francisco, Calif. Atomizing and desiccating substances, and apparatus therefor. 2,415,527; Feb. 11.
- Peebles, David D., Hillsborough, and G. P. Hensley, assignors to Golden State Company, Ltd., San Francisco, Calif. Carton filling machine. 2,415,528; Feb. 11.
- Peek, Henry L., Edgewood, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,422,562; June 17.
- Peerless Equipment Company, assignee: *See*—  
Gray, William E.
- Peerless Tube Company, assignee: *See*—  
Remington, Frederic, and Tartaglia.
- Peerless of America, Inc., assignee: *See*—  
Askin, Joseph.
- Peery, Norman E.: *See*—  
Hatton, John A., Cleveland, and Peery.
- Peery, Norman E., assignor to Shell Development Company, San Francisco, Calif. Effecting catalytic conversions with finely divided catalysts. 2,423,850; July 15.
- Peet, Nick P.: *See*—  
Kollenberg, Conrad H., and Peet.
- Pegg, Edward H. R., Cranford, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Vehicle air conditioning. 2,422,563; June 17.
- Pegg, Edward H. R., Cranford, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical dust-precipitator. 2,422,564; June 17.
- Pegg, Edward H. R., Cranford, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Protected electrical dust precipitator. 2,427,740; Sept. 23.
- Peil, Joseph, Detroit, Mich. Arch support. 2,422,923; June 24.
- Peirce, Walter T., Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Stranded wire structure for apparatus towing. 2,418,192; Apr. 1.
- Pelcé, Henri, assignor to Societe dite: Saint Freres (Societe Anonyme), Paris, France. Weft stop motion for circular looms. 2,433,479; Dec. 30.
- Pelham, Harry D., assignor of one-half to E. H. Downer, Oroville, Calif. Fishing lure. 2,424,740; July 29.
- Pelkola, Debs H., Chicago, Ill. Game device. 2,430,580; Nov. 11.
- Pell, Eric, Shorewood, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Induction motor load relay system. 2,415,189; Feb. 4.
- Pell, Eric, Shorewood, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Current controlled polyphase induction motor braking system. 2,417,012; Mar. 4.
- Pell, Eric, Shorewood, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Controller for induction motors. 2,421,431; June 3.
- Pell, Eric, Shorewood, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Braking system for polyphase induction motors. 2,430,992; Nov. 18.
- Pell, Eric, Shorewood, and N. L. Schmitz, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Controller for polyphase alternating current motors. 2,433,153; Dec. 23.
- Pellerano, Silvio, assignor to The Kaydon Engineering Corporation, Muskegon, Mich. Shaping of vinylidene chloride polymers while in contact with cadmium or cadmium base alloys. 2,418,423; Apr. 1.
- Pellegrin, Elmer D., Woodstock, Ill., assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Windowed cooking stove. 2,428,987; Oct. 14.
- Pelletiere, Joseph A., assignor to Gulf Oil Corporation, Pittsburgh, Pa. Multiple condition recording apparatus. 2,423,340; July 1.



- Pellissier, Jonas & Rivet, Inc., assignee: *See*—  
Mulqueen, Michael.
- Pelphrey, Harry, assignor to Michigan Tool Company, Detroit, Mich. Automatic worm gear hobbing machine. 2,419,726; Apr. 29.
- Pelston, Earl L., and A. A. Holzschuh, assignors to The Dow Chemical Company, Midland, Mich. Making cycloalkylacetic acids. 2,425,343; Aug. 12.
- Peltier, Frank D., Horsham, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Multi-temperature refrigerator. 2,420,971; May 20.
- Peltier, Frank D., Horsham, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Refrigerated evaporator shelf. 2,432,931; Dec. 16.
- Peltier, Leslie C., assignor to The Delphos Bending Company, Delphos, Ohio. Collapsible stroller vehicle. 2,419,790; Apr. 29.
- Peltier, Walter J., and A. J. Diroff, Monroe, assignors to Woodall Industries Incorporated, Detroit, Mich. Support for sun visors. 2,424,500; July 22.
- Pelton, George S., assignee, et al.: *See*—  
Swallow, William D.
- Pelton, Herbert E., assignee, et al.: *See*—  
Swallow, William D.
- Pelton, Janet E., Biloxi, Miss. Dress or other garment. 2,433,154; Dec. 23.
- Pelton Water Wheel Company, The, assignee: *See*—  
White, Ira M.
- Pemco Corporation, assignee: *See*—  
Athy, Lyman C., and Stuftt.  
Lubertine, Anthony J.
- Penet, Gabriel J. M.: *See*—  
Stewart, Claudius F., and Penet.
- Penet, Gabriel J. M., Paris, France, assignor to International Standard Electric Corporation, New York, N. Y. Electric signaling system. 2,424,579; July 29.
- Penfold, Charles S., assignor to H. A. Douglas Mfg. Co., Bronson, Mich. Electrical connection means. 2,431,583; Nov. 25.
- Penick, Arthur J., assignor to Oil Center Tool Company, Houston, Tex. Pipe seal. 2,426,370; Aug. 26.
- Penick, Arthur J., assignor to Oil Center Tool Company, Houston, Tex. Casing and tubing head assembly. 2,426,371; Aug. 26.
- Penick, Arthur J., assignor to Oil Center Tool Company, Houston, Tex. Circulating well head. 2,426,743; Sept. 2.
- Penick & Ford, Ltd., Incorporated, assignee: *See*—  
Kessler, Carl C., and Rankin.
- Penick, Joe E., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Alkylation process. 2,431,500; Nov. 25.
- Penk, Charles, Newark, assignor to Sal-Mar Laboratories, Inc., Irvington, N. J. Starter switch. 2,421,519; June 3.
- Penn Electric Switch Co., assignee: *See*—  
Osborn, Jesse C.  
Shaw, Burton E.  
Wagner, Leland B.
- Pennella, Samuel, East Orange, N. J. Condenser tube packing. 2,420,721; May 20.
- Penney, Gaylord W., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Arc prevention for control systems. 2,424,329; July 22.
- Penney, Raymond A., Minneapolis, Minn., assignor, by mesne assignments, to Gar Wood Industries, Inc., Detroit, Mich. Latch mechanism for dump trucks. Re. 22,955; Dec. 30.
- Penning, Frans M., Eindhoven, Netherlands; vested in the Attorney General of the United States. Electric device and heating materials. 2,431,887; Dec. 2.
- Pennington, Gordon R., Bloomfield Hills, Mich. Automatic radio program selector. 2,422,253; June 17.
- Pennock, Charles W., Miami, Fla. Necktie. 2,424,580; July 29.
- Pennow, Willis A., Cleveland, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Smoke-generating apparatus. 2,428,580; Oct. 7.
- Pennsylvania Coal Products Company, assignee: *See*—  
Lifton, William M., Jr.  
Norton, Arthur J.  
Rhodes, Philip H.
- Pennsylvania Engineering Works, assignee: *See*—  
McFeaters, Harry L.
- Pennsylvania Flexible Metallic Tubing Company, assignee: *See*—  
Brown, William H.
- Pennsylvania Furnace and Iron Company, assignee: *See*—  
De Fries, Joseph H.
- Pennsylvania Manufacturing Company, assignee: *See*—  
Hallowell, Howard T., Jr.
- Pennsylvania Railroad Company, The, assignee: *See*—  
Decker, Harry L.  
Jones, Lloyd B.  
Steins, Carleton K., and Keller.  
Zimmermann, Herbert P.
- Pennsylvania Salt Manufacturing Company, The, assignee: *See*—  
Davies, Richard L.  
Plump, Ralph E.  
Riggs, Walter S., and Peschko.
- Penote, Vincent S., assignor to The Cleveland Trencher Company, Cleveland, Ohio. Trencher. 2,421,904; June 10.
- Penoyer, Charles E.: *See*—  
Nessler, Floyd G., and Penoyer.
- Penrose, William F., assignor to Empire Electric Brake Company, Newark, N. J. Hydraulic brake mechanism. 2,415,035; Jan. 28.
- Pensyl, Daniel S.: *See*—  
Mozley, Robert F., and Pensyl.
- Pensyl, Mary P., executrix: *See*—  
Mozley, Robert F., and Pensyl.
- Penty, William P., assignor to Kellogg Company, Battle Creek, Mich. Making ready-to-eat food. 2,421,216; May 27.
- Penty, William P., assignor to Kellogg Company, Battle Creek, Mich. Ready-to-eat food product. 2,421,217; May 27.
- Pentz, Albert D., Staten Island, N. Y. Hydraulic coupling with changeable volume of working fluid. 2,424,707; July 29.
- Pentz, Albert D., New York, N. Y. Elastic drive transmission. 2,427,620; Sept. 16.
- Penvenne, Jean: *See*—  
Camilli, Guglielmo, and Penvenne.
- People in the Territory of the United States, Dedicated to the free use of the: *See*—  
Goldblatt, Leo A., and Palkin.  
Travis, Bernard V., and Jones.
- People in the territory of the United States, Free use of the: *See*—  
Travis, Bernard V., and Jones.
- Pepin, Joseph, Chicago, Ill. Decorated container. 2,421,646; June 3.
- Peple, Gustave A., Jr., Richmond, Va. Method and apparatus for air conditioning. Re. 22,870; Apr. 15.
- Peppel, William J.: *See*—  
Lazier, Wilbur A., Pavlic, and Peppel.
- Pepper, Robert K., Syracuse, N. Y. Hydraulic apparatus for transmitting power from one member to another. 2,431,076; Nov. 18.
- Percoco, Richard A., Mamaroneck, N. Y. Stapling machine. 2,427,156; Sept. 9.
- Percy, Joseph H., New York, N. Y., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Preparing purified organic sulphonates. 2,422,128; June 10.
- Perech, Ramon, New York, N. Y. Composition of food and making same. 2,428,636; Oct. 7.
- Peremi, Edmund, Bayside, and H. Weimann, Yonkers, assignors, by mesne assignments, to Reconstruction Finance Corporation, New York, N. Y. Window balancer. 2,426,945; Sept. 2.
- Pereslegin, Anatol, Freehold, N. J., assignor to the United States of America, as represented by the Secretary of War. Nonpositional indicator for switchboards. 2,431,341; Nov. 25.
- Perez, Jose U., assignor of fifty per cent to J. B. Avila, Mexico City, Mexico. Drawing board. 2,424,630; July 29.
- Perfection Stove Company, assignee: *See*—  
Chadwick, Lee S.  
Resek, Marc.
- Perfex Corporation, assignee: *See*—  
Malone, Homer E.  
Malone, Homer E., and Hotchkiss.
- Perkins, George C. H., South Hamilton, Mass. Attritive cleaning and finishing device. 2,415,844; Feb. 18.
- Perkins Glue Company, assignee: *See*—  
Pierson, Gordon G.
- Perkins, Hiram A., deceased, by S. L. Perkins, executor, Rochester, N. Y., and M. P. Hathaway, executrix, Essex County, N. Y., assignors to Setter Bros., Inc., Cataugaus, N. Y. Shimmied device. 2,431,342; Nov. 25.
- Perkins, Horace D., Fargo, N. Dak. Distributing spout for grain elevators. 2,416,065; Feb. 18.
- Perkins, John B., Red Bank, N. J. Deferred action primary dry cell. 2,423,901; July 15.
- Perkins Machine and Gear Company, assignee: *See*—  
Deloghia, Louis E.
- Perkins, Myrle M.: *See*—  
Jenny, Frank J., Perkins, and Cicalese.
- Perkins, Ralph P., and R. H. Rigerink, assignors to The Dow Chemical Company, Midland, Mich. Reaction between hydrogen chloride and isobutylene. 2,418,093; Mar. 25.
- Perkins, Reginald, Hayes, assignor to The Fairley Aviation Company Limited, Hayes, Middlesex, England. Apparatus for flanging sheet metal strips. 2,422,846; June 24.
- Perkins, Stuart L., executor: *See*—  
Perkins, Hiram A.
- Perley, George A., Wyncote, Pa., and J. B. Godshalk, Bowie, Md., assignors to Leeds and Northrup Company, Philadelphia, Pa. Cells for pH measurements. 2,416,949; Mar. 4.
- Perley, George A., Wyncote, and J. B. Godshalk, assignors to Leeds and Northrup Company, Philadelphia, Pa. Measurement of oxygen in gas mixtures. 2,422,129; June 10.
- Perlman, Samuel D., Washington, D. C. Lubricant purifying apparatus and indicator. 2,422,498; June 17.
- Perlmutter, Irving, Bronx, N. Y. Shoulder pad. 2,433,623; Dec. 30.
- Perloff, Jack W., Louisville, Ky., assignor to Owens-Corning Fiberglass Corporation. Colored fibrous glass and making same. 2,433,292; Dec. 23.



- Permanente Cement Company, assignee: *See*—  
Grant, Richard H.
- Permanente Metals Corporation, The, assignee: *See*—  
Austin, Leslie W.  
Church, Howard.  
Reik, Richard, and Byrns.  
Rhoades, Donald A.  
Von Stroh, Gerald.
- Permodux Corporation, assignee: *See*—  
Gilman, Webster E.
- Permutit Company, The, assignee: *See*—  
Goetz, Paul C., and Tiger.  
Holmes, Eric Leighton.  
Tiger, Howard L.
- Peronti, Anthony, Chicago, Ill. Baby carriage. 2,422,254; June 17.
- Perri, Angelo, Groveland, assignor to Allied Shoe Machinery Corp., Haverhill, Mass. Shoe sole press. 2,420,972; May 20.
- Perri, Angelo, Groveland, assignor to Allied Shoe Machinery Corp., Haverhill, Mass. Sole roughing machine. 2,424,415; July 22.
- Perrine, Lester E., assignor to General Motors Corporation, Detroit, Mich. Thermostatic throttle stop. 2,415,529; Feb. 11.
- Perrine, Robert O.: *See*—  
Addicks, Walter E., and Perrine.
- Perrins, Lyle E.: *See*—  
Furness, Will, Perrins, and Smith.
- Perrot, Henri, Paris, France; vested in the Attorney General of the United States. Brake. 2,418,848; Apr. 15.
- Perry, David B., assignor to Morse Chain Company, Ithaca, N. Y. Silent type chain with V-type antiwhipping pintle. 2,413,843; Jan. 7.
- Perry, Donald B.: *See*—  
Hoinkis, William, and Perry.
- Perry, Frank R., assignor to Turco Products, Inc., Los Angeles, Calif. Cleaning method and material therefor. 2,421,806; June 10.
- Perry, Walter M., Darien, Conn. Making self-locking nuts. 2,421,905; June 10.
- Perry, Winthrop L.: *See*—  
Abbott, Edward J., and Perry.
- Person, Emory L., assignor of fifteen per cent to T. J. Montemurro, Kenosha, Wis. Container. 2,428,988; Oct. 14.
- Personal Products Corporation, The, assignee: *See*—  
Schreiber, Frederick W.
- Persson, Bengt O. E., Enebyberg, and E. Forslind, Stockholm, Sweden. Plant for melting ice and preventing ice formation. 2,417,519; Mar. 18.
- Persson, Fer O., Chicago, Ill., assignor, by mesne assignments, to the United States of America, as represented by the Secretary of War. Metallic cartridge belt link. 2,420,908; May 20.
- Peschel, Paul, Genevad, Sweden, assignor to Aktiebolaget Svenska Textilverken. Carding machine. 2,415,757; Feb. 11.
- Peschko, Norman D.: *See*—  
Riggs, Walter S., and Peschko.
- Pessak, Leo and R., Miami Beach, Fla. Tubular plastic shoe upper. 2,421,353; May 27.
- Pessak, Rose: *See*—  
Pessak, Leo and R.
- Pessel, Leopold, Philadelphia, Pa., assignor to Radio Corporation of America. Metallizing nonmetallic bodies. 2,430,581; Nov. 11.
- Pet-Car Grinding Co., assignee: *See*—  
Hagstrom, Gotthard.
- Petch, Thomas H., Jr., and H. W. C. Liddiard, Rugby, England, assignors to General Electric Company. Control system. 2,419,462; Apr. 22.
- Peter, Hugo, Milwaukee, Wis. Automatic light control. 2,422,847; June 24.
- Peters, A. Karen, Cincinnati, Ohio. Ironing board and supporting means therefor. 2,432,932; Dec. 16.
- Peters, Anthony: *See*—  
Parilla, Arthur R., and Peters.
- Peters, Carl, Dearborn, Mich. Involute form dresser for grinding wheels. 2,432,335; Dec. 9.
- Peters, Carl, Dearborn, Mich. Indexing and dividing apparatus. 2,432,336; Dec. 9.
- Peters, Franklin T., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Rinse compositions. 2,422,255; June 17.
- Peters, Herbert W., and A. A. Peters, deceased, Milwaukee, Wis., by Herbert W. Peters, assignee. Beverage production. Re. 22,879; May 13.
- Peters, John F., Leonia, N. J., assignor to American Can Company, New York, N. Y. Can beading machine which skips longitudinal seams. 2,424,581; July 29.
- Peters, John G.: *See*—  
Smith, Herschel G., Cantrell, and Peters.
- Peters, Leo R., Cleveland Heights, Ohio, assignor to General Electric Company. Thermal switch. 2,427,741; Sept. 23.
- Peters, Leslie M., assignor to Shell Development Company, San Francisco, Calif. Purification of ketones and ketols by alkali treatment and distillation. 2,429,484; Oct. 21.
- Peters Machinery Company, assignee: *See*—  
Gnoerk, Adolph E.
- Peters, Melville F., Beltsville, Md., and A. A. Beal, Washington, D. C. Carbon brush. 2,428,036; Sept. 30.
- Peters, Paul A., assignee: *See*—  
Newton, Phillip S.
- Peters, Rudolph A., L. A. Stocken, and R. H. S. Thompson, Oxford, and F. N. Woodward, A. F. Millidge, and E. J. Gasson, assignors to Minister of Supply in His Majesty's Government of United Kingdom of Great Britain and Northern Ireland, London, England. Organic thiol antioxic agents. 2,432,797; Dec. 16.
- Peters, Theodore J., Jr., Roselle, and J. E. J. Kane, Elizabeth, N. J., assignors to Standard Oil Development Company. Producing phenolic sulfides. 2,425,824; Aug. 19.
- Peters, William R., Yreka, Calif. Tire lifting tool. 2,422,848; June 24.
- Petersen, Boerge, Juelsminde, Denmark; vested in the Attorney General of the United States. Dispersions. 2,422,633; June 17.
- Petersen, Carl G.: *See*—  
Poulsen, Arnold, and Petersen.
- Petersen, Charles A.: *See*—  
Applegate, Walter N., and Petersen.
- Petersen, Christian, South Windsor, Conn. Cultivator plow. 2,420,973; May 20.
- Petersen, Henry, South Beloit, Ill. Toolholder. 2,429,564; Oct. 21.
- Petersen, Henry O., Jackson, Mich. Support. 2,427,416; Sept. 16.
- Petersen, Kai, Soborg, near Copenhagen, Denmark. Apparatus for treating garbage and the like waste materials. 2,423,994; July 15.
- Petersen, William, De Witt, Nebr. Toggle actuated sliding jaw wrench. 2,417,013; Mar. 4.
- Peterson, Adolphe C., Minneapolis, Minn. Combustion jet propulsion means. 2,425,121; Aug. 5.
- Peterson, Albin K., assignor to Longren Aircraft Company, Torrance, Calif. Metal stretching press which straightens and moves work edges into drawing chucks. 2,428,890; Oct. 14.
- Peterson, Albin K., assignor to Longren Aircraft Company, Torrance, Calif. Contour grinder. 2,428,891; Oct. 14.
- Peterson, Alfred J. A., Wilkinsburg, and J. D. Gard, Irwin, assignors, to Westinghouse Electric Corporation, East Pittsburgh, Pa. Switchboard construction having adjustable grommet wire holders. 2,427,732; Sept. 23.
- Peterson, Algot S.: *See*—  
Beach, William I., Whann, and Peterson.
- Peterson, Axel H., Rock Island, Ill. Blowhole plug for sand boxes or containers. 2,423,341; July 1.
- Peterson, Axel T., New Lenox, Ill., assignor to Wm. E. Pratt Mfg. Co. Centerless grinding machine. 2,425,897; Aug. 19.
- Peterson, Bernice J., Stockton, Calif. Infant's romper. 2,423,403; July 1.
- Peterson, Carl D., deceased; M. E. Peterson, executrix, A. H. Deimel, and E. W. Zingsheim, Toledo, Ohio. Balking clutch. 2,415,393; Feb. 4.
- Peterson, Carl D., and E. J. Barth, Toledo, Ohio; said Barth assignor to Dana Corporation. Transfer gear case. 2,415,758; Feb. 11.
- Peterson, Carl D., deceased, and R. R. Burkhalter; M. E. Peterson, executrix, assignors to Dana Corporation, Toledo, Ohio. Synchronizing clutch. 2,425,203; Aug. 5.
- Peterson, Carl D., deceased, and E. J. Barth; M. E. Peterson, executrix, assignors to Dana Corporation, Toledo, Ohio. Gear shifting mechanism. 2,425,204; Aug. 5.
- Peterson, Carl W., Bremerton, Wash. Liquid measuring system. 2,427,690; Sept. 23.
- Peterson, Donald W.: *See*—  
Brown, George H., and Peterson.
- Peterson, Edward S., Elmwood Park, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Remote-control system. 2,427,621; Sept. 16.
- Peterson, Edward S., Elmwood Park, Ill., assignor to Automatic Electric Laboratories, Inc. Apparatus for controlling the release of bombs from aircraft. 2,428,581; Oct. 7.
- Peterson, Edward T., Reading, assignor to Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa. Gag press. 2,433,322; Dec. 23.
- Peterson, Elbert A.: *See*—  
Bent, Franklin A., and Peterson.
- Peterson, Eric W., Glen Ellyn, assignor to Ditto, Incorporated, Chicago, Ill. Gelatin roll spindle. 2,414,893; Jan. 28.
- Peterson, Eugene, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Pulse generator. 2,419,227; Apr. 22.
- Peterson, Eugene, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Time division multiplex. 2,423,466; July 8.
- Peterson, Frank R.: *See*—  
Sabin, John, and Peterson.
- Peterson, George N.: *See*—  
Hooper, Leslie J., and Peterson.
- Peterson, Glen, Bartlesville, Okla. Electrical selector switching apparatus. 2,430,886; Nov. 18.
- Peterson, Harold A., Cedar Mills, Oreg. Fuse plug. 2,416,494; Feb. 25.
- Peterson, Harold O.: *See*—  
Atwood, John B., and Peterson.
- Peterson, Harold O., and B. Trevor, Riverhead, N. Y., assignors to Radio Corporation of America. Radio diversity transmitter. 2,428,582; Oct. 7.



- Peterson, Harold O., and G. S. Wickizer, Riverhead, N. Y., assignors to Radio Corporation of America. Horn antenna. 2,425,488; Aug. 12.
- Peterson, Harold O., Riverhead, N. Y., assignor to Radio Corporation of America. Pulse number modulation system. 2,430,139; Nov. 4.
- Peterson, Harold O., Riverhead, N. Y., assignor to Radio Corporation of America. Recording instrument. 2,430,780; Nov. 11.
- Peterson, Henry J., Webster City, Iowa. Animal trap. 2,428,721; Oct. 7.
- Peterson, Joel D., Ridgewood, assignor to Bendix Aviation Corporation, Bendix, N. J. Self-synchronous motion reproducing system. 2,418,193; Apr. 1.
- Peterson, Joel D., Ridgewood, and P. F. Bechberger, Tenafly, assignors to Bendix Aviation Corporation, Bendix, N. J. Reproducing motion. 2,419,087; Apr. 15.
- Peterson, John W., Los Angeles, and J. E. Cooper, San Marino, assignors to National Venetian Blind Company, Los Angeles, Calif. Clip for Venetian blind slats. 2,433,529; Dec. 30.
- Peterson, Lester M.: *See*—  
Towne, Harold G., and Peterson.
- Peterson, Marion E., executrix: *See*—  
Peterson, Carl D., and Barth.  
Peterson, Carl D., and Burkhalter.  
Peterson, Carl D., Deimel, and Zingsheim.
- Peterson, Merlin D.: *See*—  
Brubaker, Merlin M., Roland, and Peterson.
- Peterson, Merlin Dewey, Oak Ridge, Tenn., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerization of ethylene. 2,425,638; Aug. 12.
- Peterson, Oscar, Seattle, Wash. Ratchet operated expansion or compression clamp. 2,427,472; Sept. 16.
- Peterson, Peter I., Minneapolis, Minn. Lifting and turning apparatus. 2,426,284; Aug. 26.
- Peterson, Ralph G., Long Beach, Calif. Fender pile. 2,420,677; May 20.
- Peterson, Ralph G., Minneapolis, Minn. Anesthesia and surgery restraining device. 2,425,489; Aug. 12.
- Peterson, Raymond B.: *See*—  
Dreislin, Alexander, and Peterson.
- Peterson, Richard A., Chicago, Ill. Bomb. 2,419,854; Apr. 29.
- Peterson, Robert E., Danvers, assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass. Submarine signaling apparatus. 2,420,676; May 20.
- Peterson, Robert E., Danvers, assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass. Electric motor control circuit. 2,426,640; Sept. 2.
- Peterson, Robert E., Los Angeles, assignor to Food Machinery Corporation, San Jose, Calif. Method of and apparatus for extracting juice from whole citrus fruit. 2,420,681; May 20.
- Peterson, Robert H.: *See*—  
Carr, Edward W., and Peterson.
- Peterson, Robert H., assignor to Bendix Aviation Corporation, South Bend, Ind. Fluid-pressure controlled valve. 2,417,212; Mar. 11.
- Peterson, Roy E., assignor, by mesne assignments, to Hotchkiss Realty Corporation, Norwalk, Conn. Plier type fastener setting device. 2,427,873; Sept. 23.
- Peterson, Roy E., assignor, by mesne assignments, to Hotchkiss Realty Corporation, Norwalk, Conn. Stapler with automatic slide lock. 2,433,155; Dec. 23.
- Peterson, Ruben O., University Heights, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. End brush. 2,421,647; June 3.
- Peterson, Samuel T., Chicago, Ill. Lateral motion device for locomotives. 2,433,528; Dec. 30.
- Peterson, Stanley V., Rochester, and A. F. Turner, Brighton, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Apparatus for coating surfaces. 2,420,722; May 20.
- Peterson, Thomas F., Shaker Heights, assignor of one-fifth to J. N. Nielsen, New York, N. Y. High frequency electric field heating apparatus. 2,423,902; July 15.
- Peterson, Victor W., and O. J. Maha, Chicago, Ill., assignors to Hannifin Corporation. Pressure control for hydraulic presses. 2,426,411; Aug. 26.
- Peterson, Vincent C. J., Forty Fort, Pa., assignor to American Chain & Cable Company, Inc., Bridgeport, Conn. Braided sling structure. 2,414,664; Jan. 21.
- Peterson, Vincent C. J., Forty Fort, and W. A. Loewen, Wilkes-Barre, Pa., assignors to American Chain & Cable Company, Inc., Bridgeport, Conn. Braided sling. 2,418,524; Apr. 8.
- Peterson, Walter H., and K. D. Detling, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Production of halogenated compounds. 2,419,500; Apr. 22.
- Peterson, William J., McKeesport, Pa., assignor to Carnegie-Illinois Steel Corporation. Sheet printing device. 2,426,564; Aug. 26.
- Peterson, William J., West Caldwell, N. J., assignor to Curtiss-Wright Corporation. Jettisoning mechanism for aircraft propellers. 2,432,933; Dec. 16.
- Peterson, William R., Lowell, Ind., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Pressure actuated switch. 2,421,284; May 27.
- Pethick, William H., Regina, Saskatchewan, Canada. Endless track and drive transmission therefor. 2,428,502; Oct. 7.
- Petit, William H.: *See*—  
Clary, Hugh L., and Petit.
- Petouhoff, Justin D., New York, N. Y. Self-locking hook. 2,429,769; Oct. 28.
- Petrakakis, Emanuel, New York, N. Y. Toaster. 2,417,266; Mar. 11.
- Petrén, Torsten S. A., Fullesta, Huddinge, and E. K. W. Sternberg, Abrahamsberg, assignors to Ahlen & Åkerlunds Forlag, Stockholm, Sweden. Producing a stainless steel lithographic plate with a copper image thereon. 2,429,107; Oct. 14.
- Petrie, John W., New Haven, Conn. Equipment for magical effects. 2,432,337; Dec. 9.
- Petro-Chem Process Company, Incorporated, assignee: *See*—  
Wallis, John S., and Throckmorton.
- Petrokubi, John L.: *See*—  
Kugeley, Edward W., Feild, and Petrokubi.
- Petroleum Heat and Power Company, assignee: *See*—  
Bulger, William A.
- Petrolite Corporation, Ltd., assignee: *See*—  
Blair, Charles M., Jr.  
Blair, Charles M., Jr., and Schulz.  
De Groote, Melvin.  
De Groote, Melvin, and Keiser.  
Eddy, Harold C.  
Roberts, Claudius H. M.  
Stenzel, Richard W.  
Turner, Delber W.
- Petroske, John J., Methuen, Mass., assignor to Patchogue-Plymouth Mills Corporation, New York, N. Y. Seat covering. 2,420,974; May 20.
- Petry, Theodor A., and R. Lee, Wenonah, and J. L. Blies and W. V. Betts, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Two stage azeotropic distillation of toluene with methanol. 2,428,467; Oct. 7.
- Petskeyes, Charles H., Davenport, Iowa, assignor to Gellman Manufacturing Company, Rock Island, Ill. Bread transferring means for bread slicing machine. 2,417,782; Mar. 18.
- Petskeyes, Charles H., Davenport, Iowa, assignor to Gellman Manufacturing Company, Rock Island, Ill. Bread wrapping machine. 2,418,276; Apr. 1.
- Petskeyes, Charles H., Davenport, Iowa, assignor to Gellman Manufacturing Company, Rock Island, Ill. Article wrapping machine. 2,418,277; Apr. 1.
- Petskeyes, Charles H., Davenport, Iowa, assignor to Gellman Manufacturing Company, Rock Island, Ill. Bread slicing machine. 2,427,108; Sept. 9.
- Pettersson, Everett W., Melrose Park, Ill. Infant's drinking cup. 2,414,697; Jan. 21.
- Pettibone Mulliken Corporation, assignee: *See*—  
Anderson, David W.  
Nordberg, Charles H.
- Pettingill, Fred M.: *See*—  
Varner, Alvie E., and Pettingill.
- Petty, John M., Berkeley, Calif., and T. M. Morse, Carlinville, Ill. Photographic code recording and reproducing device. 2,425,122; Aug. 5.
- Petty, Olive S., assignee: *See*—  
Parr, Josephus O., Jr.  
Tolk, John F.
- Pevere, Ernest F.: *See*—  
Clark, Louis A., and Pevere.
- Pevere, Ernest F., Beacon, G. B. Hatch, Fishkill, and E. E. Sensel, Beacon, assignors to The Texas Company, New York, N. Y. Synthesis of hydrocarbons. 2,418,899; Apr. 15.
- Pezzaglia, Philip: *See*—  
Ross, William E., and Pezzaglia.
- Pezzilla, Albert R., Philadelphia, Pa. Combination pump-motor-heater. 2,419,159; Apr. 15.
- Pezzilla, Albert R., Philadelphia, Pa. Motor pump unit. 2,433,156; Dec. 23.
- Pfaelzer, Melvin A., assignor to M. Reynolds, Chicago, Ill. Fountain pen ink. 2,427,921; Sept. 23.
- Pfann, Harry F., Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparation of piperazine. 2,427,473; Sept. 16.
- Pfann, Harry F., Greenwich, and J. K. Dixon, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparation of pyrazine. 2,414,552; Jan. 21.
- Pfann, William G., Summit, J. H. Scaff, Madison, and A. H. White, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Translating device and making it. 2,430,028; Nov. 4.
- Pfau, Robert C., Minneapolis, Minn. Key holder. 2,429,840; Oct. 28.
- Pfeffer, Edward C., Jr., Oak Park, and F. M. de Beers, Jr., Evanston, Ill., assignors to Continental Can Company, Inc., New York, N. Y. Lacquers containing vinyl resins and phenolic resins. 2,433,062; Dec. 23.
- Pfeiffer, William, Jr., Hackensack, N. J. Clip for sheet metal partitions. 2,426,237; Aug. 26.
- Pfeiffer, Frank H., Co., Inc., assignee: *See*—  
Pfeiffer, Frank K., and Grenier.
- Pfeiffer, Frank K., Worcester, and W. J. Grenier, Auburn, assignors to Frank H. Pfeiffer Co., Inc., Worcester, Mass. Heel cover turning machine. 2,429,894; Oct. 28.
- Pfeil, Leonard B.: *See*—  
Griffiths, William T., and Pfeil.



- Pfeil, William C., Chicago, Ill. Cutting element for ice cubing machines. 2,420,400; May 13.
- Pfennig, Reuben F., Goose Creek, Tex., assignor to Standard Oil Development Company. Separating tertiary olefins. 2,414,764; Jan. 21.
- Pfennig, Reuben F., Goose Creek, and J. T. Horeczy, Cedar Bayou, Tex., assignors to Standard Oil Development Company. Manufacture of hydrogen chloride. 2,420,909; May 20.
- Pfent, Frank, St. Clair, Mich. Door controller. 2,414,894; Jan. 28.
- Pfingsten, August F., Rock Rapids, Iowa. Tractor operated log and tree saw. 2,423,047; June 24.
- Pfingsten, August F., Rock Rapids, and S. J. Slotsky, Sioux City, Iowa. Centrifugal cleaner for winnowing and screening grain. 2,426,946; Sept. 2.
- Pfizer, Chas., & Co., Inc., assignee: *See*—  
Pasternack, Richard, and Regna.
- Pfeiger, Kenneth W., Arlington, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical apparatus. 2,425,002; Aug. 5.
- Pfeghar, George W., Upper Moreland Township, Montgomery County, assignor to Fischer & Porter Company, Hatboro, Pa. Apparatus for making precision-bore tubes. 2,423,113; July 1.
- Pfeumer, Hans: *See*—  
Cooper, Lester, and Pfeumer.
- Pfeumer, Hans, New Brunswick, N. J., assignor to Rubatex Products, Inc., New York, N. Y. Hydraulic closure for autoclaves. 2,421,847; June 10.
- Pfeumer, Hans, New Brunswick, N. J., assignor to Rubatex Products, Inc., New York, N. Y. Leakproof fuel tank. 2,422,797; June 24.
- Phair, Robert A., Allendale, N. J., and W. A. Schnakenberg, Hollis, assignors to H. Kohnstamm & Co., Inc., New York, N. Y. Laundry method and bag. 2,426,843; Sept. 2.
- Phalor, William H., Columbus, Ohio. Fluid distributing apparatus. 2,430,781; Nov. 11.
- Phares, Constance, Chicago, Ill. Roller skate. 2,427,572; Sept. 16.
- Pharo, Lee C., Thetford Mines, Quebec, assignor to Johnson's Company, Thetford Mines, West Quebec, Canada. Asbestos dusting process and apparatus. 2,420,495; May 13.
- Pharo, Lee C., Thetford Mines, Quebec, assignor to Johnson's Company, Thetford Mines West, Quebec, Canada. Asbestos spinning fiber. 2,422,980; June 24.
- Phelan, Arthur J., Pacific Palisades, C. O. Walden, Long Beach, and N. F. McGaffey, Inglewood, assignors to Northrop-Hendy Company, Hawthorne, Calif. Turbine blade and mounting. 2,430,140; Nov. 4.
- Phelon, Russell E., assignor to Wico Electric Company, West Springfield, Mass. Magneto. 2,427,573; Sept. 16.
- Phelps Dodge Copper Products Corporation, assignee: *See*—  
Gambitta, Alfred F.  
Merrell, Edwin J.  
Wolk, I. Louis.  
Wyatt, Kenneth S.  
Zink, George W.
- Phelps, Donald S., Harvard, Mass. Froth flotation cell. 2,416,066; Feb. 18.
- Phelps, Guy W.: *See*—  
Roth, Warren D., Brown, and Phelps.
- Phelps, James C.: *See*—  
Kahn, Alfred, Phelps, and Spencer.
- Phelps, Ralph L., assignee: *See*—  
Cherry, Carl W.
- Phenicle, Clarence S.: *See*—  
Pinkerton, Harry D., and Phenicle.
- Pheoli Manufacturing Company, assignee: *See*—  
Waarich, Otto W.
- Philadelphia Inquirer Co., The, assignee: *See*—  
Schultz, Oswald R., Nestle, and Romano.
- Philadelphia Quartz Company, assignee: *See*—  
Carter, John D.
- Philadelphia Thermometer Company, The: *See*—  
Schwartz, John L.
- Philco Corporation, assignee: *See*—  
Bagley, Michael T.  
Benware, Robert T.  
Bobb, Lloyd J.  
Boothroyd, Wilson P.  
Bradley, William E.  
Bradley, William E., Clapp, and Stephan.  
Bradley, William E., and Daly.  
Branson, Harry.  
Brink, Robert M.  
Brown, Reynolds D., Jr.  
Clapp, Richard G.  
Clapp, Richard G., and Dolberg.  
Clum, Henry W.  
Curtiss, George E., Jr.  
Dailey, Donald E.  
Dolberg, Charles E., and Clapp.  
Farrow, Frederick R., Jr.  
Frear, William.  
Hall, Russell M.  
Hart, Edward L.  
Hume, William C.  
Jensen, Dan H. L., and Harman.  
McCoy, Claudius T.  
Moore, Robert C.
- Philco Corporation, assignee: *See*—Continued  
Peltier, Frank D.  
Roberts, Bruce.  
Rundell, Theodore W.  
Shoemaker, Malcolm G.  
Smith, David B.  
Smith, Helen E.  
Stephan, Ingo L.  
Stewart, William A.  
Sunstein, David E.  
Synnestevedt, Carl H.  
Tellier, Joseph C.  
Tiley, John W.  
Traub, Ernest H.
- Phillipp, Lawrence A., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Forced air bottle cooler. 2,417,123; Mar. 11.
- Philipps, Alexander, Chicago, Ill. Clothing. 2,421,848; June 10.
- Philips Laboratories, Inc., assignee: *See*—  
Van Gessel, Karel.
- Phillips, Morton L., Ottawa, Kans. Float for fish lines. 2,425,825; Aug. 19.
- Philleo, Leigh H.: *See*—  
Rawlinson, Ray M., and Philleo.
- Phillippi, Matthew H., assignor, by mesne assignments, to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Flexible reflex reflecting film. 2,422,256; June 17.
- Phillips, Chester L., Vallejo, Calif., assignor to General Electric Company. Commutating field control system. 2,427,574; Sept. 16.
- Phillips, Ernest B., Lorain, and N. Berthoff, Elyria, Ohio. Centrifugal chuck. 2,431,961; Dec. 2.
- Phillips, Festus B., Los Angeles, Calif. Artificial eyelash. 2,421,432; June 3.
- Phillips, Francis L., Bayside, Long Island, assignor to Beattie Products, Inc., New York, N. Y. Jet lighter. 2,433,707; Dec. 30.
- Phillips, Frederick W., New Orleans, La. Rebuilding worn rubber heels. 2,420,187; May 6.
- Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Manufacturing piston rings. 2,417,610; Mar. 18.
- Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Piston ring and piston and piston ring assembly. 2,428,177; Sept. 30.
- Phillips, Henry: *See*—  
Chilton, Leonard V., Kendall, and Phillips.
- Phillips, J. & N., and Company Limited, assignee: *See*—  
Holt, William.
- Phillips, James A., Sayre, Okla. Seed planting machine. 2,429,841; Oct. 28.
- Phillips, John P., and L. F. Ridder, Jr., North Hollywood, Calif., assignors, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ill. Piston seal. 2,429,426; Oct. 21.
- Phillips, Leon A., Hazleton, Pa., assignor to Line Material Company, Milwaukee, Wis. Combined mountings for expulsion fuses and surge gaps. 2,427,743; Sept. 23.
- Phillips, Mickey, Chicago, Ill. Garment hanger. 2,419,791; Apr. 29.
- Phillips Petroleum Company, assignee: *See*—  
Albert, Walter L.  
Allen, John G.  
Axe, William N.  
Ayers, Joseph W.  
Biegel, John.  
Bogk, John E.  
Boyd, James H., Jr., and Wagner.  
Buell, Charles K., and Boatright.  
Cade, George N.  
Carnell, Paul H.  
Carney, Samuel C.  
Carter, Charles E.  
Cole, Ralph C.  
Crawford, Francis W.  
Crouch, Willie W.  
Drennan, Harry E.  
Dutcher, Harris A.  
Emery, Melvin R.  
Evans, Edmond W.  
Ferro, Bernardo J., Jr.  
Ferro, Bernardo J., Jr., and Church.  
Foster, Arch L.  
Frey, Frederick E.  
Friedman, Alvin H.  
Gibson, James D.  
Gibson, James D., and Cole.  
Groebe, John L., Reeves, and Campbell.  
Guyer, Jesse A.  
Guyer, Jesse A., and Molique.  
Hachmuth, Karl H.  
Helmets, Carl J.  
Hepp, Harold J.  
Hudson, Thomas B.  
Hudson, Thomas B., Wolk, and Upham.  
Jones, Jean P.  
Krejci, Joseph C.  
Latchum, John W., Jr.  
Latchum, John W., Jr., Pickett, and Evans.  
Lee, Henry H.  
Leonard, Ansel B.



- Phillips Petroleum Company, assignee: *See*—Continued  
 Leonard, Ansel B., and Hettick.  
 Mahan, John E.  
 Matuszak, Maryan P.  
 Matuszak, Maryan P., and Morey.  
 McKenna, George E., and Hettick.  
 Messmore, Harold E.  
 Meyers, Charles O.  
 Moliue, Lawrence G.  
 Montgomery, Jesse and Kelly.  
 Motsenbocker, James O., Jr.  
 Oberfell, George G.  
 Parker, Will D.  
 Patterson, Robert J.  
 Pietz, Raymond G.  
 Reid, James A.  
 Rudolph, Herman J.  
 St. Clair, Theodore A.  
 St. Clair, Theodore A., and Eddy.  
 Searth, Virgil.  
 Schulze, Walter A.  
 Schulze, Walter A., and Axe.  
 Schulze, Walter A., and Crouch.  
 Schulze, Walter A., and Helmers.  
 Schulze, Walter A., and Hillyer.  
 Schulze, Walter A., and Lyon.  
 Schulze, Walter A., and Mahan.  
 Simonson, Howard E.  
 Scribner, Allison K., and Wilder.  
 Tate, Carman C.  
 Thodos, George, and Weinaug.  
 Upham, John D.  
 Vinyard, Roy E.  
 Wagner, Cary R.  
 Weber, Louis J.  
 Whaley, Thomas H.  
 Wolk, I. Louis.
- Phillips, Philip H., Farmington, Conn. Automatic carbonating apparatus. 2,414,607; Jan. 21.  
 Phillips, Philip H., Farmington, Conn. Carbonating apparatus. 2,420,795; May 20.  
 Phillips, Philip H., Farmington, Conn. Pressure restricting device. 2,423,155; July 1.  
 Phillips, Samuel T.: *See*—  
 Sedacca, Albert, and Phillips.  
 Phillips, William D.: *See*—  
 Hawkins, Floyd L., and Phillips.
- Phillips, William E., Drexel Hill, assignor to Leeds and Northrup Company, Philadelphia, Pa. Frequency control system. 2,431,501; Nov. 25.
- Philpott, La Verne R., Washington, D. C., assignor to Finch Telecommunications, Inc., Passaic, N. J. Color facsimile receiver. 2,431,360; Nov. 25.
- Phoenix Hosiery Company, assignee: *See*—  
 Ludwig, Johannes P.
- Phoenix Manufacturing Company, assignee: *See*—  
 Larsen, Thorval.
- Phoenix Metal Cap Company, assignee: *See*—  
 Crabbe, Lindsay T., and Lathrop.
- Photoswitch Incorporated, assignee: *See*—  
 Cade, Phillip J.  
 Hamilton, James C.  
 Thomson, E. Craig.  
 Thomson, Elihu C.  
 Wolfner, William F., II.
- Platak, Joseph, Gary, Ind. Traction supply device. 2,428,680; Oct. 7.
- Piazza, Thomas E., Lyndhurst, N. J., assignor, by mesne assignments, to Champlain Company, Inc., New York, N. Y. Printing press drive. 2,416,495; Feb. 25.
- Picard, Annette, Montreal, Quebec, Canada. Safety belt for infants. 2,414,698; Jan. 21.
- Picard, Robert G., Collingswood, N. J., assignor to Radio Corporation of America. Device for indirect heating of materials. 2,417,213; Mar. 11.
- Piccard, Jean F.: *See*—  
 Akerman, John D., and Piccard.
- Piccardo, Jack E., Oakland, Calif., assignor to Shasta Pump Company. Valve and air charger for pumps and storage tanks. 2,416,345; Feb. 25.
- Piccardo, Jack E., Oakland, Calif., assignor to Shasta Pump Company. Sealing means for submersible electric motor-pump units. 2,418,194; Apr. 1.
- Piccardo, Jack E., Oakland, and J. E. Armstrong, Berkeley, Calif., assignors to Jacuzzi Bros., Incorporated. Pump and pump system. 2,424,285; July 22.
- Picciolo, Donato, New York, N. Y. Convertible furniture. 2,416,496; Feb. 25.
- Pick, Milton E., New Orleans, La. Making bags. 2,431,888; Dec. 2.
- Pickens, Claude E., Ulysses, Kans. Starch pan attachment for clothes wringers. 2,424,051; July 15.
- Pickens, Madison D., assignee: *See*—  
 Taegtstroem, Ingemar.
- Pickens, Roy A.: *See*—  
 Booth, Robert B., and Pickens.
- Pickens, Roy A., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Bauxite beneficiation by hydration of gangue. 2,421,648; June 3.
- Pickert, Lynn I., Watertown, N. Y., assignor to The New York Air Brake Company. Air brake. 2,414,392; Jan. 14.
- Pickett, Armand D.: *See*—  
 Latham, John W., Jr., Pickett, and Evans.
- Pickett, Louise W., assignee, et al.: *See*—  
 Eckel, Arthur F.
- Pickford, Jack, Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Suction cleaning apparatus. 2,416,419; Feb. 25.
- Pickney, Joseph J.: *See*—  
 Griffith, Robert L., and Pickney.
- Picone, Edward J., Arlington, Mass. Ladder platform. 2,419,727; Apr. 29.
- Pictorial Machinery Limited, assignee: *See*—  
 Warman, Horace.
- Pieper, Alphonse F., Brighton, N. Y. Electric lighting means. 2,419,965; May 6.
- Pieper, Alphonse F., Brighton, N. Y. Electric lighting means. 2,420,190; May 6.
- Pier, Everett H.: *See*—  
 Klemperer, Wolfgang B., and Pier.
- Pier, Mathias, Heidelberg, and F. Christmann, Ludwigs-hafen-on-the-Rhine, Germany; vested in the Attorney General of the United States. Lubricant. 2,421,082; May 27.
- Pierce, Carleton C., Jr., Washington, D. C. Film slide projection apparatus. 2,424,945; July 29.
- Pierce, Cecil E., West Southport, Maine. Load hoisting device. 2,415,907; Feb. 18.
- Pierce, Frank L., Ferndale, Mich., assignor to Eureka Williams Corporation. Suction cleaner. 2,424,253; July 22.
- Pierce Governor Company, assignee: *See*—  
 Reger, Raymond.
- Pierce, Harold C., Pomona, Calif. Boxed produce load. 2,415,368; Feb. 4.
- Pierce, Harold C., Pomona, Calif. Variable speed rail car mover. 2,424,631; July 29.
- Pierce, Herbert: *See*—  
 Fountain, William M., and Pierce.
- Pierce, Jerry A.: *See*—  
 Spicer, William E., and Pierce.
- Pierce, Jerry A., and C. N. Kimberlin, Jr., Baton Rouge, La., assignors to Standard Oil Development Company. Alumina gel. 2,422,499; June 17.
- Pierce, John B., Foundation, assignee: *See*—  
 Cataldo, John B., and Stilwell.  
 O'Brien, Joseph F., and Boynton.  
 Rapp, George M.  
 Stilwell, William E., Jr.
- Pierce, John R., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron device of the magnetron type. 2,414,121; Jan. 14.
- Pierce, John R., Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,416,714; Mar. 4.
- Pierce, Lawrence, Edgewood, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Grid glow timer motor control. 2,414,553; Jan. 21.
- Pierce, Lawrence, Edgewood, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric contactor. 2,414,554; Jan. 21.
- Pierce, Leon W.: *See*—  
 Taylor, William H., Pierce, and Andrews.
- Pierce, Lyle L., assignor to Boeing Aircraft Company, Seattle, Wash. Gang scribing machine. 2,423,564; July 8.
- Pierce, Robert, Detroit, Mich. Garment hanger. 2,428,240; Sept. 30.
- Piersol, John A., Indianapolis, Ind. Low lift air lift. 2,427,157; Sept. 9.
- Pierson, Frode H.: *See*—  
 Montgomery, John P., and Pierson.
- Pierson, Gordon G., assignor to Perkins Glue Company, Lansdale, Pa. Vegetable glue and making the same. 2,413,885; Jan. 7.
- Pierson, Gordon G., assignor to Perkins Glue Company, Lansdale, Pa. Vegetable glue. 2,413,886; Jan. 7.
- Pierson, Gordon G., assignor to Perkins Glue Company, Lansdale, Pa. Making insoluble starch. 2,417,611; Mar. 18.
- Pierson, Gordon G., assignor to Perkins Glue Company, Lansdale, Pa. Vegetable glue. 2,419,160; Apr. 15.
- Pierson, Paul R., Wilkinsburg, and G. C. Sinclair, Murrysville, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Metal enclosed switchgear. 2,414,555; Jan. 21.
- Pieth, Peter: *See*—  
 Straub, Fritz, Brassel, and Pieth.
- Pieth, Peter, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Pyrazolone disazo dyestuffs. 2,427,534; Sept. 16.
- Pietz, Raymond G., Yonkers, N. Y., assignor to Phillips Petroleum Company. Automatic volume control for seismograph amplifiers. 2,430,246; Nov. 4.
- Pifer, Hiram H., Norris, Ill. Rubber heel with shank supporting extension. 2,432,680; Dec. 16.
- Pifer, Marion J., Williamsburg, assignor to Colonial Radio Corporation, Buffalo, N. Y. Push button for radio receivers. 2,422,981; June 24.
- Piggott, Henry A.: *See*—  
 Buckley, Gerard D., and Piggott.
- Pikl, Josef, Glassboro, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chloro-methylene derivative of fatty acid amines. 2,426,790; Sept. 2.



- Pilcher, J. V., Mfg. Company, Incorporated, assignee: *See—*  
 Babbitt, John F., and Roop.  
 Pilgrim, Frederick J.: *See—*  
 Carlson, Gustaf H., and Pilgrim.  
 Pilkington Brothers Limited, assignee: *See—*  
 Baillie, Granville H.  
 Waldron, Frederic B.  
 Waldron, Frederic B., and Griffin.  
 Wood, Arthur R.  
 Pilliar, William E.: *See—*  
 Barrett, Otto T., and Pilliar.  
 Pillsbury Mills, Inc., assignee: *See—*  
 Harrel, Chastain G., and Brown.  
 Pilot Manufacturing Company, assignee: *See—*  
 Gill, John B., and Schomer.  
 Pilson, John C., Louisville, Ky., assignor to Curtiss-Wright Corporation. Banding machine. 2,427,874; Sept. 23.  
 Pinanski, Samuel, Brookline, Mass. Dispensing apparatus and treating popped corn. 2,423,342; July 1.  
 Pinardi, Charles P., Dearborn, and H. L. Brock, Detroit, assignors to Ford Motor Company, Dearborn, Mich. Tractor transmission control. 2,416,640; Feb. 25.  
 Pinder, Joseph W., Camp Hill, and Alexander Blair, Harrisburg, Pa. Determining balance. 2,425,685; Aug. 12.  
 Pinder, Thomas, Scarborough, England. Tracks for model railways. 2,428,468; Oct. 7.  
 Pines, Herman: *See—*  
 Ipatieff, Vladimir N., and Pines.  
 Pines, Herman, assignor to Universal Oil Products Company, Chicago, Ill. Hydrocarbon reactions in the presence of aluminum halide-olefinic ketone complexes. 2,422,798; June 24.  
 Pines, Herman, and R. C. Wackher, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Isomerization of saturated hydrocarbons. 2,418,724; Apr. 8.  
 Pines, Herman, and V. N. Ipatieff, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,419,690; Apr. 29.  
 Pines, Herman, and V. N. Ipatieff, Riverside, and R. C. Oberg, Evanston, assignors to Universal Oil Products Company, Chicago, Ill. Manufacture of cyclohexene oxides. 2,422,435; June 17.  
 Pingert, Frederick P., Port Byron, and C. W. Ferry, Tuckahoe, assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y. Reducing the pyrogen contents of parenteral solutions. 2,432,970; Dec. 16.  
 Pinkas, David, Norwalk, Conn. Electric shaving device with hair collecting means. 2,426,412; Aug. 26.  
 Pinkel, Benjamin, Cleveland, Ohio. Combustion chamber. 2,417,445; Mar. 18.  
 Pinkerton, Harry D., and C. S. Phenicie, assignors of one-third to E. H. Munford, Kansas City, Mo. Fuel vapor supply system for vehicle heaters. 2,429,842; Oct. 28.  
 Pinkerton, Roderick D., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Operating polymerization plants. 2,414,328; Jan. 14.  
 Pinkney, Paul S.: *See—*  
 Ernsberger, Maurice L., and Pinkney.  
 Pinkston, John T., Jr.: *See—*  
 Thomas, Charles L., and Pinkston.  
 Pinkvoss, Berthold P.: *See—*  
 Parry, Frank, and Pinkvoss.  
 Pinney, Ernest F., Glen Cove, assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Candle tipping machine. 2,415,369; Feb. 4.  
 Pinto, Armie A., Highland Park, Mich. Debris accumulating and separating trap for drain pipes. 2,419,501; Apr. 22.  
 Ploch, William F.: *See—*  
 Groven, Fredrick, and Ploch.  
 Pioneer Log Cabin Company, assignee: *See—*  
 Drake, William C.  
 Pioneer Parachute Company, Inc., assignee: *See—*  
 King, James T.  
 Kowalski, Conrad S.  
 Pioneer Suspender Company, assignee: *See—*  
 Lutz, Eugene, and Segal.  
 Segal, Samuel.  
 Pioneer Trust & Savings Bank of Chicago, assignee: *See—*  
 MacLagan, James A., and Walsh.  
 Piper, Harry K., Paris, assignor to E. E. Mance and L. E. Mance, doing business as Corner-Bric Company, Chicago, Ill. Corner unit and its manufacture. 2,429,192; Oct. 14.  
 Piperoux, Rene P., Radburn, N. J., and D. G. Soussloff, New York, N. Y., assignors to Celanese Corporation of America. Method of and apparatus for making cups. 2,418,900; Apr. 15.  
 Piperoux, Rene P., Radburn, N. J., and D. G. Soussloff, New York, N. Y., assignors to Celanese Corporation of America. Press. 2,429,960; Oct. 28.  
 Pipkin, Marvin, Cleveland Heights, Ohio, assignor to General Electric Company. Flash lamp and manufacture thereof. Re. 22,838; Feb. 4.  
 Pipkin, Wilbur A., Safety Harbor, Fla. Citrus peel oil extraction. 2,420,678; May 20.  
 Pipkin, Wilbur A., Safety Harbor, Fla. Method of and apparatus for extracting juice and peel oil from whole citrus fruit. 2,420,679; May 20.  
 Pipkin, Wilbur A., Safety Harbor, Fla. Peel oil and juice extraction by fluid pressure. 2,420,680; May 20.  
 Piquerez, Emile, St. Cloud, France. Gas purifier and compressor. 2,420,840; May 20.  
 Pirani, Marcello: *See—*  
 Bangham, Donald H., Bennett, Brown, Hirst, Pirani, and Jennings.  
 Pirie, Freda, executrix: *See—*  
 Pirie, William.  
 Pirie, William, deceased, Powell River, British Columbia, by F. Pirie, executrix, Vancouver, British Columbia, Canada. Loading apparatus. 2,429,071; Oct. 14.  
 Pirkle, Louis E.: *See—*  
 Black, Norman F., and Pirkle.  
 Piron, Emil H., assignor to Transit Research Corporation, New York, N. Y. Resilient metal wheel. 2,422,366; June 17.  
 Pirrung, Ernest D., Struthers, Ohio. Coin bank. 2,421,577; June 3.  
 Piry, Marcel, assignor to Fairchild Engine and Airplane Corporation, Farmingdale, N. Y. Engine cooling system. 2,424,416; July 22.  
 Pisarelli, Edward, New York, N. Y. Broaching tool. 2,431,343; Nov. 25.  
 Pisculli, Ferdinand M., Yonkers, N. Y. Fountain pen. 2,416,770; Mar. 4.  
 Pitman, Earle C.: *See—*  
 Blyler, Lee L., Clough, Hawley, and Pitman.  
 Pitman, Richard W., Laverock-Hillcrest, Pa., assignor to Underwood Corporation. Business machine. 2,425,490; Aug. 12.  
 Pitman, Richard W., Laverock-Hillcrest, Pa., assignor to Underwood Corporation. Sensing means for business machines. 2,429,730; Oct. 28.  
 Pitney-Bowes, Inc., assignee: *See—*  
 Knauer, Berthold.  
 Pitre, Antonio S., U. S. Navy, F. G. Cowen, Vallejo, and J. N. Pouget, Napa, Calif. Nozzle. 2,419,228; Apr. 22.  
 Pitre, Antonio S., U. S. Navy, and T. M. Lauer, Vallejo, M. Maloof, Santa Rosa, and R. L. Rogers, Oakland, Calif. Heated portable spray gun. 2,426,641; Sept. 2.  
 Pitrot, Adrian R.: *See—*  
 Stewart, Alexander, Pitrot, and Kehrlich.  
 Pitt, Hubert L., Bromley, England. Controlling aeroplanes when in flight. 2,419,161; Apr. 15.  
 Pitt, Samuel, Westfield, and D. V. Waters, Flemington, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Welding apparatus. 2,418,951; Apr. 15.  
 Pittman, Ralph R., Park Hill, Ark. Self-extinguishing fuse link. 2,413,887; Jan. 7.  
 Pittman, Ralph R., Park Hill, Ark. Bus support construction. 2,427,975; Sept. 23.  
 Pittman, Ralph R., Pine Bluff, Ark. Expulsion lightning arrester. 2,418,791; Apr. 8.  
 Pittman, Ralph R., Pine Bluff, Ark. Pole-type conductor support. 2,425,265; Aug. 5.  
 Pittsburg and Midway Coal Mining Company, The, assignee: *See—*  
 Spencer, Kenneth A., and Machin.  
 Pittsburgh Annealing Box Company, assignee: *See—*  
 Jacob, Mory L.  
 Pittsburgh Coal Carbonization Company, assignee: *See—*  
 Leshner, Carl E.  
 Pittsburgh Coke & Chemical Company, assignee: *See—*  
 Rlethof, George.  
 Pittsburgh-Des Moines Company, assignee: *See—*  
 Jackson, James O.  
 Pittsburgh Plate Glass Company, assignee: *See—*  
 Ellerman, George E.  
 Freeman, Stephen E., and Gloyer.  
 Geger, Paul J.  
 Gerhart, Howard L.  
 Gerhart, Howard L., and Adams.  
 Gregorius, Thomas K.  
 Hurd, Frank W.  
 McCaleb, John D., and Reis.  
 Meyers, Bernard C.  
 Miller, Robert A.  
 Minton, Gerald Z., and Black.  
 Moffett, Eugene W., and Smith.  
 Pechukas, Alphonse.  
 Pechukas, Alphonse, and Geger.  
 Rudoff, Hyman.  
 Stevens, Henry C.  
 Strain, Franklin.  
 Stroud, Charles E., and Marini.  
 Truby, Harry A.  
 Pityo, Albert F., Clifton, N. J. Producing plastic cups. 2,415,370; Feb. 4.  
 Pitzer, Edgar C., assignor to Standard Oil Company, Chicago, Ill. Catalytic reforming process. 2,423,947; July 15.  
 Pitzl, Gilbert, Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing coated cellulosic sheets. 2,432,542; Dec. 16.  
 Place, Charles I., New Milford, assignor to The Torrington Manufacturing Co., Torrington, Conn. Blower wheel bracing. 2,424,501; July 22.  
 Place, Willard P., Penn Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Selective indication apparatus. 2,415,654; Feb. 11.



- Place, Willard P., Penn Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Remote control system. 2,420,093; May 6.
- Place, Willard P., Penn Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus to detect changes of voltages. 2,429,072; Oct. 14.
- Plagemann, Werner, Berlin, Germany; vested in the Attorney-General of the United States. Screw threading machine. 2,422,849; June 24.
- Planas, Eduardo A., Habana, Cuba. Nonrefillable container. 2,428,291; Sept. 30.
- Planas, Eduardo A., Habana, Cuba. Vibratory soap dispenser. 2,433,708; Dec. 30.
- Plank, Charles J., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Catalytic conversion of hydrocarbons. 2,428,741; Oct. 7.
- Plank, Norris, East Chicago, Ind., assignor to Shell Development Company, San Francisco, Calif. Device for measuring the density of fluids in pipes. 2,432,039; Dec. 2.
- Plan-O-Mill Corporation, assignee: See—Norberg, Harold, and Smith.
- Plant, Irvin R., North Bergen, and E. F. Miltenberger, Red Bank, assignors of one-fourth to W. A. Van Siclen, Bayside, and one-fourth to E. A. Schlichting, West Caldwell, N. J. Wheel protector. 2,428,469; Oct. 7.
- Plastaras, James C., Laurelton, N. Y., assignor to Mergenthaler Linotype Company. Spaceband delivery mechanism. 2,413,780; Jan. 7.
- Plastics Process Company, assignee: See—Kerr, Theodore W.
- Plati, John T.: See—Wenner, Wilhelm, and Plati.
- Platon, Edmond D. V., Paris, France, assignor to International Standard Electric Corporation, New York, N. Y. Variable flow restrictor. 2,426,238; Aug. 26.
- Platt, Edward V., Chicago, Ill., and W. J. Aitken, Manitowoc, Wis. Rotary type snap action electric switch. 2,431,197; Nov. 18.
- Platt, Haviland H., New York, N. Y., assignor to Rotary Research Corporation, Eddystone, Pa. Airscrew drive. 2,414,765; Jan. 21.
- Platt, Haviland H., New York, N. Y., assignor to Rotary Research Corporation, Eddystone, Pa. Rotary wing drive. 2,414,766; Jan. 21.
- Platt, Haviland H., New York, N. Y., assignor, by mesne assignments, to McDonnell Aircraft Corporation, St. Louis, Mo. Rotor blade. 2,430,948; Nov. 18.
- Platt, Haviland H., New York, N. Y., assignor, by mesne assignments, to McDonnell Aircraft Corporation, St. Louis, Mo. Rotor control in rotating wing aircraft. 2,432,677; Dec. 16.
- Platt, Haviland H., New York, N. Y., assignor, by mesne assignments, to McDonnell Aircraft Corporation, St. Louis, Mo. Safety device for twin rotor helicopters. 2,432,678; Dec. 16.
- Platt, Haviland H., New York, N. Y., and W. L. Le Page, Ardmore, Pa., assignors, by mesne assignments, to McDonnell Aircraft Corporation, St. Louis, Mo. Airscrew. 2,430,947; Nov. 18.
- Platt, Lester B., Jr., New York, N. Y. Hydroplane. 2,423,796; July 8.
- Platt, William E., assignee: See—Greulich, Paul J.
- Plattner, Placidus: See—Ruzicka, Leopold, and Plattner.
- Platz, Elwood T., assignor to Bulldog Electric Products Company, Detroit, Mich. Panelboard of detachably mounted electrical devices. 2,428,320; Sept. 30.
- Plaud, Eugene J., New Bedford, Mass. Key case. 2,422,436; June 17.
- Plax Corporation, assignee: See—Bailey, James Wiley, Fred E.
- Pleasant, Herman E., Holland, Mich. Valve guide slide. 2,429,485; Oct. 21.
- Plebanski, Jozef, Warsaw, Poland, assignor to Radio Patents Corporation. Electronic reactance circuits. 2,422,257; June 17.
- Plesnier, Alexander W., assignor, by mesne assignments, to Belmont Radio Corporation, Chicago, Ill. Radio control unit. 2,424,845; July 29.
- Plesnier, Alexander W., assignor, by mesne assignments, to Belmont Radio Corporation, Chicago, Ill. Step-by-step electric motor. 2,427,875; Sept. 23.
- Plessey Company Limited, The, assignee, et al.: See—Stokes, Philip H., Greenland, and Pugn.
- Plett, Edgar M.: See—Kline, Donald, and Plett.
- Plewes, Warcup W.: See—Jones, Samuel F., and Plewes.
- Plews, William J., Chicago, Ill., and B. Chiego, Newark, N. J. Preparing paste for electric storage battery plates. 2,422,437; June 17.
- Plexico, Robert S., Royal Oak, assignor to General Motors Corporation, Detroit, Mich. Synchromesh transmission. 2,428,892; Oct. 14.
- Ploederl, Francis J.: See—Hempel, Charles H., and Ploederl.
- Plotzky, Samuel, Brooklyn, N. Y. Combined wallet and purse. 2,417,322; Mar. 11.
- Plucker, Julius, III: See—O'Kelly, Arlie A., Work, and Plucker.
- Plueddemann, Edwin P., Woodbridge, N. J., and R. Rathman, Decatur, Ind., assignors to Westvaco Chlorine Products Corporation, New York, N. Y. Process of degreasing aluminum and magnesium surfaces. 2,423,343; July 1.
- Plumb, David S., North Wilbraham, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Self-sealing container for hydrocarbon fuels. 2,428,527; Oct. 7.
- Plummer, Charles H.: See—Vose, Robert W., and Plummer.
- Plummer, Jesse H.: See—Holmes, Minot K., and Plummer.
- Plummer, Walter A., Jr., Burbank, Calif. Turning fabric tubes. 2,428,943; Oct. 14.
- Plump, Ralph E., Haddonfield, N. J., assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Producing a solid pentachloropropane. 2,420,975; May 20.
- Pluta, Peter, and L. Felderstein, Rochester, N. Y. Lifting jack. 2,427,808; Sept. 23.
- Plym, Lester M., Glen Ellyn, Ill., assignor to American Telephone and Telegraph Company. Electrical measuring device. 2,418,424; Apr. 1.
- Plymouth Cordage Company, assignee: See—Miskelly, Raymond E., and Drew.
- Plympton, Ralph M.: See—Jaeger, Edward V., and Plympton.
- Pneumafil Corporation, assignee: See—Bechtler, Hans C.
- Pneumatic Scale Corporation, Limited, assignee: See—Eaton, Lewis B., and Vergobbi.
- Hultin, Oscar H. Vergobbi, John G. Vergobbi, Robert W.
- Poch, Anthony, Fernie, British Columbia, Canada. Book holder. 2,423,048; June 24.
- Poch, Waldemar J., Morristown, N. J., assignor to Radio Corporation of America. Self-synchronized saw-tooth generator. 2,418,425; Apr. 1.
- Poch, Waldemar J., Moorestown, N. J., assignor to Radio Corporation of America. System for energizing the electrodes of cathode-ray devices from the deflecting circuit. 2,421,520; June 3.
- Poch, Waldemar J., Moorestown, N. J., assignor to Radio Corporation of America. Interlacing system. 2,421,521; June 3.
- Poch, Waldemar J., Moorestown, N. J., assignor to Radio Corporation of America. Voltage regulator. 2,427,109; Sept. 9.
- Poch, Waldemar J., Moorestown, N. J., assignor to Radio Corporation of America. Cathode-ray tube with revolving magnets and adjustable sleeve. 2,431,077; Nov. 18.
- Poch, Waldemar J., Moorestown, N. J., assignor to Radio Corporation of America. Automatic volume control regulation of light intensity on camera tube. 2,431,824; Dec. 2.
- Pochek, William A., East St. Louis, Ill. Automatic plug valve lubricator. 2,431,299; Nov. 18.
- Pocock, Harry E., Snyder, assignor to Lyon & Coulson, Inc., Buffalo, N. Y. Cartridge belt. 2,416,641; Feb. 25.
- Podel, Abraham, Connellsville, Pa., assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio. Anvil and pivotal jaw operated cap sealing machine. 2,421,963; June 10.
- Podolak, Walter, assignor to Boyle-Midway Inc., Chicago, Ill. Mop head adapted to be detachably connected to a mop holder. 2,431,502; Nov. 25.
- Podolsky, Benjamin, New York, N. Y. Turban. 2,414,665; Jan. 21.
- Podolsky, Herman: See—Clem, Willis J., and Podolsky.
- Poe, John H., assignee: See—Sloan, John I.
- Poglein, Louis, assignor to McKee Glass Company, Jeanette, Pa. Band and handle assembly. 2,428,942; Oct. 14.
- Pohl, Elizabeth A.: See—Pohl, Walter and E. A.
- Pohl, Walter and E. A., Baltimore, Md. Hair curling device. 2,432,585; Dec. 16.
- Pohrman, Walter A., Vancouver, Wash. Portable scaffolding. 2,416,950; Mar. 4.
- Poillon, Ethel A., Forest Hills, N. Y. Toilet powder shaker and dispensing container therefor. 2,418,952; Apr. 15.
- Poitras, Edward J., Jackson Heights, and J. D. Tear, Great Neck, assignors to Ford Instrument Company, Inc., Long Island City, N. Y. Hydraulic power system. 2,419,792; Apr. 29.
- Poitras, Edward J., Little Neck, and J. D. Tear, Great Neck, assignors to Ford Instrument Company, Inc., Long Island City, N. Y. Vertical-seeking gyro. 2,427,158; Sept. 9.
- Poitras, Herman A., Teaneck, J. E. Snow, Hasbrouck Heights, and S. A. De Lorenzo, Clifton, N. J., assignors to Heyden Chemical Corporation, New York, N. Y. Recovery of products from aldehyde condensations. 2,420,496; May 13.
- Poitras, Herman A., Teaneck, and J. E. Snow, Hasbrouck Heights, N. J., assignors to Heyden Chemical Corporation, New York, N. Y. Purification of tripentaerythritol. 2,420,497; May 13.



- Pojman, Joseph L., Palos Heights, assignor to Industrials, Evanston, Ill. Tying machine. 2,420,498; May 13.
- Pokorny, Frank J., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Circuit breaker. 2,422,799; June 24.
- Pokorny, Oldrich S.: *See*—  
Stratford, Reginald K., and Pokorny.
- Pokorny, Stephen S., Humboldt County, Iowa. Combination pickup loader and stacker. 2,415,759; Feb. 11.
- Polakoff, Louis, Boston, Mass. Skirt. 2,424,114; July 15.
- Poland, Frank F., assignor to Revere Copper and Brass Incorporated, Rome, N. Y. Method of and apparatus for removing zinc from copper base alloys. 2,429,584; Oct. 21.
- Polaroid Corporation, assignee: *See*—  
Barnes, Arthur, and Husek.  
Billings, Bruce H., and Hyde, and Barr.  
Binda, Frederick J.  
Blout, Elkan R., and Corley.  
Chubb, Lewis W., Jr.  
Cooper, Dexter P., Jr.  
Fairbank, Murry N.  
Grey, David S.  
Land, Edwin H.  
Land, Edwin H., and Cooper.  
Land, Edwin H., Mahler, and Ryan.  
Land, Edwin H., Swanton, and Gibson.  
Shepherd, Ridgley G., Jr., and West.  
Thomas, Alexander.  
West, Cutler D.  
West, Cutler D., and Binda.  
Williams, Charles W.  
Wolff, Otto E.  
Young, Clinton J. T.
- Polevitzky, Igor B., Miami, Fla. Illuminating device. Re. 22,896; July 8.
- Poliacek, Steven D., assignor to Carbology Company, Inc., Detroit, Mich. Method of making mandrels. 2,422,500; June 17.
- Polite, Jacob J., Youngstown, Ohio. Hair drier. 2,424,502; July 22.
- Poliyka, Rudolph, Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for assembling articles. 2,430,365; Nov. 4.
- Polkingharn, Oril M., Cheyenne, Wyo. Self-riveting seal. 2,420,094; May 6.
- Pollack, Daniel, Forest Hills, assignor to International Mutoscope Corporation, Long Island City, N. Y. Plate dispenser for automatic photographic machines. 2,423,404; July 1.
- Pollack, Frederick, Kew Gardens, N. Y. Coffee composition. 2,419,031; Apr. 15.
- Pollack, Hans W., Jackson Heights, N. Y. Article of furniture. 2,414,241; Jan. 14.
- Pollak, Arthur, P. E. Chapman, and R. Hastings, Charleston, S. C., assignors to West Virginia Pulp and Paper Company, New York, N. Y. Splitting tall oil soaps. 2,430,029; Nov. 4.
- Pollak, Frederick F., Brooklyn, N. Y. Manufacture of water resistant unflammable organic fibrous materials and product. 2,418,525; Apr. 8.
- Pollak, Frederick F., Brooklyn, N. Y. Nonflammable waterproofed textiles and making same. 2,421,218; May 27.
- Pollak, Joseph, Corporation, assignee: *See*—  
Hasselbaum, Oscar H.
- Pollard, Ernest L., Wilkinsburg, and A. M. Harrison, Swissvale, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Hydrogen cooled machine having direct connected exciter with separately housed brush rigging. 2,417,783; Mar. 18.
- Pollard, Frank L., Oakland, Calif. Rotary clothes drier. 2,415,908; Feb. 18.
- Pollard, Henry L.: *See*—  
Meade, Reginald E., Rodgers, and Pollard.  
Rodgers, Nelson E., Pollard, and Meade.
- Pollard, Henry L., N. E. Rodgers, and R. E. Meade, Appleton, Wis., assignors to Western Condensing Company, San Francisco, Calif. Carrying out fermentation processes for production of riboflavin. 2,433,063; Dec. 23.
- Pollard, John D., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Acidic solution of a partially polymerized melamine-formaldehyde condensation product in an aqueous aliphatic polyhydric alcohol solvent. 2,417,014; Mar. 4.
- Pollard, John D., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Pretreatment of cellulosic textiles with melamine formaldehyde resin. 2,423,428; July 1.
- Pollard, John D., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Pretreatment of noncellulosic textiles. 2,423,429; July 1.
- Pollen, Louis: *See*—  
Rosenblatt, Edgar F., and Pollen.
- Pollett, William F. O., Gravesend, assignor to W. T. Henley's Telegraph Works Company, Limited, Darking, England. Manufacture of insulated electric conductors. 2,426,413; Aug. 26.
- Pollock, Gordon B., South Laguna, Calif. Medico-surgical photographic device. 2,431,825; Dec. 2.
- Pollock, John L., Los Angeles, Calif. Welding rubber inner tubes and like rubber articles. 2,430,076; Nov. 4.
- Pollock, Julian G., Philadelphia, Pa. Refrigerator made up of separable refrigerating cabinets. 2,429,294; Oct. 21.
- Pollock, Willard M.: *See*—  
Crafts, Curtis S., and Pollock.
- Polonski, John B., Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Blocking ring release mechanism. 2,417,566; Mar. 18.
- Polson, Blanche H., assignee, et al.: *See*—  
Polson, Samuel D., and Nelson.
- Polson, Samuel D., and S. H. Nelson, assignors of one-fourth to B. H. Polson, and one-fourth to M. P. Nelson, Bridgeport, Conn. Dispensing apparatus. 2,426,707; Sept. 2.
- Polt, William, assignor, by mesne assignments, to E & G Machine and Tool Company, Freeport, N. Y. Tire demounting device. 2,418,849; Apr. 15.
- Polymerization Process Corporation, The, assignee: *See*—  
Layng, Edwin T.
- Polyphase Machine Company, assignee: *See*—  
Zipser, James A.
- Polyxor Chemical Co., Inc., assignee: *See*—  
Farber, Eduard.
- Pomeroy, Allen F.: *See*—  
Frantz, Glenn R., and Pomeroy.
- Pond Engineering Company, assignee: *See*—  
Pond, Kenneth H.
- Pond, Kenneth H., Longmeadow, assignor to Pond Engineering Company, Springfield, Mass. Apparatus for operating machine tools. 2,413,781; Jan. 7.
- Pons, Onesime H., Valdece, N. C. Making single unit stockings. 2,432,679; Dec. 16.
- Pontius, George W., III, assignor to Bendix Aviation Corporation, South Bend, Ind. Gun turret. 2,414,608; Jan. 21.
- Pontius, George W., III, assignor to Bendix Aviation Corporation, South Bend, Ind. Gun turret. 2,415,967; Feb. 18.
- Pontius, George W., III, and A. P. Wilson, assignors to Bendix Aviation Corporation, South Bend, Ind. Automatic gun compensator. 2,426,744; Sept. 2.
- Pool, John A., Palo Alto, C. M. Bartholomew, and M. V. Johnson, Menlo Park, Calif.; said Bartholomew and said Johnson assignors to A. M. Sargent, as trustee. Drum loader. 2,429,193; Oct. 14.
- Pool, Stuart D., and E. O. Engvall, Moline, Ill., assignor to International Harvester Company. Conveyor mechanism for harvester threshers. 2,427,876; Sept. 23.
- Poole, Arthur B., Harwinton, Conn. Stator-shell for electric motors. 2,421,906; June 10.
- Poole, Arthur B., Harwinton, Conn. Interval-timer. 2,427,159; Sept. 9.
- Poole, Arthur B., Harwinton, Conn. Electromagnetic current-interruption indicating means for electric time instruments. 2,430,782; Nov. 11.
- Poole, Foster M., Dallas, Tex. Remote motion reproducing means. 2,433,577; Dec. 30.
- Poole, Frederick A., deceased, Barrington, Ill., by American National Bank and Trust Company of Chicago and P. L. Poole, executors, assignors to Production Instrument Company, Chicago, Ill. Add and subtract counter and control device for a game apparatus. 2,423,725; July 8.
- Poole, Herbert M., Sardinia, Ohio. Adjustable clothes hanger. 2,421,433; June 3.
- Poole, Paul L., executor: *See*—  
Poole, Frederick A.
- Poole, Sidney C. P., Raleigh, Tenn. Overhead supported traveling saw wood-sawing machine. 2,430,247; Nov. 4.
- Poor & Company, assignee: *See*—  
Chester, Allan E., and Reisinger.  
Warr, Harold G.
- Pootjes, Peter, Temple City, assignor to Western Precipitation Corporation, Los Angeles, Calif. Housing with rotary valve and sealing member. 2,428,241; Sept. 30.
- Pope, Teddy R., Sr., Memphis, Tenn. Locator and position indicator. 2,419,162; Apr. 15.
- Pope, Teddy R., Sr., Memphis, Tenn. Garbage receptacle and ladder. 2,419,163; Apr. 15.
- Pope, Teddy R., Sr., Memphis, Tenn. Collapsible camp-stove. 2,424,665; July 29.
- Pope, Teddy R., Sr., Memphis, Tenn. Illuminated fishing lure. 2,431,420; Nov. 25.
- Pope, Winslow B., Detroit, Mich., assignor, by mesne assignments, to United States of America. Rocket projector and projectile. 2,421,522; June 3.
- Popkin, Alexander H., Bronx, N. Y., assignor to Sun Chemical Corporation. Mixtures of diamino diphenyl azo compounds. 2,431,889; Dec. 2.
- Popkin, Alexander H., Bronx, N. Y., assignor to Sun Chemical Corporation. Aminobiphenylsulfonanilide. 2,433,784; Dec. 30.
- Popp, Charles C.: *See*—  
Scherer, Charles F., and Popp.
- Popp, Rudolf, assignor to McGill Manufacturing Company, Valparaiso, Ind. Housing for electric switches. Re. 22,882; May 20.
- Popp, Rudolf, assignor to McGill Manufacturing Company, Inc., Valparaiso, Ind. Electric snap-action switch. 2,429,770; Oct. 28.
- Poppe, Ted J.: *See*—  
Meyer, Edward, and Poppe.
- Popper, Emil, Brooklyn, N. Y. Flexible link device. 2,425,639; Aug. 12.



- Popper, Otto, Johannesburg, Transvaal, Union of South Africa. Insertion of intravaginal packs. 2,416,642; Feb. 25.
- Porcelain Products, Inc., assignee: *See*—Loy, John G.
- Porch, Edwin A., Canon City, Colo. Bulldozer. 2,417,520; Mar. 18.
- Porocel Corporation, assignee: *See*—Heinemann, Heinz, and La Lande.
- Porskievics, Anthony J., assignor to Vickers, Incorporated, Detroit, Mich. Plunger-type electromagnet. 2,426,745; Sept. 2.
- Port, Eugene B.: *See*—Horst, Roy A., and Port.
- Portable Products Corporation, assignee: *See*—Odyssey, Paul H.
- Porter, Arthur W., Plymouth, England. Tool for grinding in internal-combustion engine valves. 2,419,728; Apr. 29.
- Porter, Charles A., Evanston, assignor to The Pure Oil Company, Chicago, Ill. Isobutane production. 2,415,590; Feb. 11.
- Porter, Charles A., Belleville, and R. Fershko, Newark, assignors to Resistoflex Corporation, Belleville, N. J. Polyvinyl alcohol-stabilized ethanol formamide composition. 2,430,949; Nov. 18.
- Porter, Charles B. A., Hillingdon, assignor to Heathway Engineering Company Limited, Hillingdon Heath, England. Apparatus for winding helices. 2,426,522; Aug. 26.
- Porter, Don C., Tacoma, Wash., assignor to Chain Belt Company, Milwaukee, Wis. Concrete mixing and distributing apparatus. 2,416,771; Mar. 4.
- Porter, Finley R., Southampton, N. Y., assignor to Bendix Aviation Corporation, Teterboro, N. J. Control device and system. 2,415,760; Feb. 11.
- Porter, Finley R., Southampton, N. Y., assignor to Bendix Aviation Corporation, Teterboro, N. J. Hydraulic coupling type of variable-speed transmission. 2,422,850; June 24.
- Porter, Frank, Syracuse, assignor to The Solvay Process Company, New York, N. Y. Manufacture of dicarboxylic acid anhydrides. 2,415,531; Feb. 11.
- Porter, H. K., Inc., assignee: *See*—Ferguson, William H.
- Porter, Henry W., and Geddes.
- Porter, Harold M., assignor to The Mitchell-Tyler Company, Hagerstown, Md. Toy aircraft. 2,417,267; Mar. 11.
- Porter, Henry W., Brookline, and J. W. Geddes, Boston, assignors to H. K. Porter, Inc., Everett, Mass. Stop mechanism for lever operated tools. 2,429,895; Oct. 28.
- Porter, John A., San Antonio, Tex. Conveyor. Re. 22,843; Feb. 18.
- Porter, Lewis M.: *See*—Hasbrouck, Augustus, King, and Porter and Williams.
- Porter, Malcolm E., assignor to The Lobl Manufacturing Company, Middleboro, Mass. Thermostatic control of electric heating pads. 2,425,686; Aug. 12.
- Porter, Richard W.: *See*—Hansen, Albert, Jr., Jewell, Johnson, and Porter.
- Porter, Robert D., Klamath Falls, Oreg. Impact switch. 2,417,993; Mar. 25.
- Porter, Roscoe C., Arlington, Va., assignor, by mesne assignments, to The Briggs Filtration Company, Bethesda, Md. Thermostatic orifice control. 2,421,713; June 3.
- Porterfield, A. T., Wilmar Township, Los Angeles County, Calif. Vise assembly. 2,430,366; Nov. 4.
- Porteus, John H., Wellesley, Mass., assignor to The Baldwin Locomotive Works. Railway truck. 2,427,066; Sept. 9.
- Portland Plastics Limited, assignee: *See*—Leader, Sidney A.
- Posen, Sam, assignor to Beltone Hearing Aid Co., Chicago, Ill. Base structure for miniature electron tubes. 2,431,198; Nov. 18.
- Poser, Paul, London, England. Treating skins, textile fabrics, and the like. 2,426,372; Aug. 26.
- Posey, Carl A., St. Paul, Minn. Proportioning device. 2,418,985; Apr. 15.
- Posey, Thomas W., Brownwood, Tex. Nut cracker. 2,426,120; Aug. 19.
- Posson, Chester A., Chicago, Ill. Tax withholding chart. 2,427,976; Sept. 23.
- Post, Frank A.: *See*—Carleton, Wayne M., and Post.
- Post, Frederick, Company, The, assignee: *See*—Hinman, Walker M.
- Post, Richard F., Alexandria, Va. Prevention of interference from operation of step-by-step motor. 2,414,787; Jan. 21.
- Poster, Jacob, assignee: *See*—Franklin, Albert W.
- Postlewaite, William R., Menlo Park, assignor to California Research Corporation, San Francisco, Calif. Well pressure gauge. 2,421,907; June 10.
- Posture Research Corporation, assignee: *See*—Jones, Arthur E.
- Potter, Charles F., Toronto, Ontario, Canada. Calendar. Re. 22,839; Feb. 4.
- Potter, Dwight J.: *See*—Ross, John, and Potter.
- Potter, James A., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Voltage regulation. 2,414,122; Jan. 14.
- Potter, James A., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Voltage regulated rectifier circuit. 2,423,114; July 1.
- Potter, James A., Long Valley, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Voltage regulation. 2,414,242; Jan. 14.
- Potter, Percy J., assignor to Pangborn Corporation, Hagerstown, Md. Abrasive blasting. 2,421,849; June 10.
- Potter, Percy J., assignor to Pangborn Corporation, Hagerstown, Md. Tumbling mill. 2,424,955; July 29.
- Potter, Ralph K., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Visual reception of radio waves. 2,416,346; Feb. 25.
- Potter, Ralph K., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Analysis and representation of complex waves. 2,425,003; Aug. 5.
- Potter, Ralph K., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Analysis and representation of complex waves. 2,429,236; Oct. 21.
- Potter, Ralph K., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Translation of visual symbols. 2,432,123; Dec. 9.
- Potter, Wentworth M., Lyndhurst, Ohio, assignor to General Electric Company. Illuminated sign. 2,420,976; May 20.
- Potts, Louis M., deceased, Evanston, Ill., M. W. C. Potts, executrix. Camera for photographing meter readings and the like. 2,426,947; Sept. 2.
- Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Printing telegraph apparatus. 2,415,909; Feb. 18.
- Potts, Louis M., Evanston, assignor to Teletype Corporation, Chicago, Ill. Printing telegraph system having serially connected step-by-step selective station. 2,419,729; Apr. 29.
- Potts, Louis M., Evanston, and R. G. Schuler, Highland Park, assignors to Teletype Corporation, Chicago, Ill. Printing telegraph system having serially connected step-by-step automatically selective stations. 2,419,730; Apr. 29.
- Potts, Martha W. C., executrix: *See*—Potts, Louis M.
- Potts, Ralph H., assignor to Armour and Company, Chicago, Ill. Preparing nitriles. 2,414,393; Jan. 14.
- Potts, Walter J., Collingswood, and H. S. Dalrymple, Woodlynne, N. J. Luggage fastener. 2,423,253; July 1.
- Pouget, John N.: *See*—Pitre, Antonio S., Cowan, and Pouget.
- Pouliart, Willy, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y. Electrical signaling system. 2,423,115; July 1.
- Pouliart, Willy, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y. Electrical signalling system with remote control. 2,424,582; July 29.
- Poulsen, Arnold, Hellerup, and C. G. Petersen, Copenhagen, Denmark, assignors to British Acoustic Films Limited, London, England. Photographic sound film noise reduction system. 2,414,666; Jan. 21.
- Poupitch, Ougljesa J., assignor to Illinois Tool Works, Chicago, Ill. Fastening device. 2,414,272; Jan. 14.
- Poupitch, Ougljesa J., assignor to Illinois Tool Works, Chicago, Ill. Locking device. 2,424,208; July 15.
- Poupitch, Ougljesa J., assignor to Illinois Tool Works, Chicago, Ill. Spring clip. 2,428,338; Sept. 30.
- Pourtier, Gaston, Paris, France. Variable speed gear transmission. 2,432,442; Dec. 9.
- Powarzynski, Stanley M., Chicago, Ill. Tandem wheel mounting. 2,430,248; Nov. 4.
- Powel, Roland N.: *See*—Washburn, Frederick M., and Powell.
- Powell, Alric H.: *See*—Strang, Harold E., and Powell.
- Powell, Alric H., Yeadon, Pa., assignor to General Electric Company. Indicating means for thermal circuit interrupters. 2,417,268; Mar. 11.
- Powell, Alric H., Yeadon, Pa., assignor to General Electric Company. Fuse unit. 2,426,468; Aug. 26.
- Powell, Alric H., Yeadon, Pa., assignor to General Electric Company. Fuse unit. 2,429,237; Oct. 21.
- Powell, Archibald D., Braintree, England. Elevating support for scaffold platforms. 2,424,115; July 15.
- Powell, Charles S., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control apparatus. 2,431,276; Nov. 18.
- Powell, Edward R., North Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Method and apparatus for fiberizing molten material. 2,428,810; Oct. 14.
- Powell, Francis F., Kirkland, Wash. Chain wrench. 2,420,682; May 20.
- Powell, George M., 3d, South Charleston, W. Va., and E. F. Carlson, Arlington, Va., assignors to Carbide and Carbon Chemicals Corporation. Coating copper with vinyl resins. 2,417,885; Mar. 25.



- Powell, George M., 3rd., South Charleston, W. Va., and J. E. Brister, Summit, N. J., assignors to Carbide and Carbon Chemicals Corporation. Producing sealed cables. 2,427,507; Sept. 16.
- Powell, George M., 3rd., and T. E. Mullen, South Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Vinyl resin suspensions. 2,431,078; Nov. 18.
- Powell, Winfred T., assignor to Stromberg-Carlson Company, Rochester, N. Y. Intercommunicating telephone system. 2,422,565; June 17.
- Power Equipment Company, assignee: *See*—  
Bixby, William H.
- Power Jets (Research and Development) Ltd., assignee: *See*—  
Barr, Richard H. H.  
Howell, Alun R.  
Lloyd, Peter.
- Power Research Corporation, assignee: *See*—  
Bowers, Thomas A.
- Powers, James H., Fort Wayne, Ind., assignor to General Electric Company. Dishwashing machine. 2,418,366; Apr. 1.
- Powers, Lewis J., Springfield, Mass. Bunch forming and spacing apparatus. 2,414,059; Jan. 7.
- Powers, Milton A., Detroit, Mich. Glass wool plate element for storage batteries. 2,428,470; Oct. 7.
- Powers Regulator Company, The, assignee: *See*—  
Kirchhoff, Richard C.
- Powlick, Nicholas J., Chicago, Ill. Pony cycle for children. 2,424,632; July 29.
- Pozar, John M., Cleveland, Ohio. Dovetail measuring device. 2,431,826; Dec. 2.
- Praeg, Walter S., assignor to National Broach & Machine Company, Detroit, Mich. Gear testing apparatus. Re. 22,953; Dec. 23.
- Prager, Frank D., Chicago, Ill., assignor to Graver Tank & Mfg. Co., Inc. Liquid treatment with auxiliary flow of liquid to suspend and preserve a sludge blanket. 2,422,258; June 17.
- Prager, Frank D., Chicago, Ill., assignor to Graver Tank & Mfg. Co., Inc. Passing liquid downward through first and second beds of zeolite and thereafter passing liquid downward through said second and first beds of zeolite. 2,429,943; Oct. 28.
- Prange, Maurice N., Highland Park, Mich. Honing tool. 2,424,846; July 29.
- Prangley, Curtis F., Evanston, Ill. Liquid dispensing apparatus. 2,428,382; Oct. 7.
- Prangley, Curtis F., and R. R. Trexler, Evanston, Ill. Liquid dispensing apparatus. 2,428,383; Oct. 7.
- Prata, Joe, Torrance, Calif. Quick breaking union for pipe ends. 2,423,726; July 8.
- Pratt, Annette H., administratrix: *See*—  
Pratt, William B.
- Pratt, Burt C., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Drying oil-polyvinyl acetate compositions. 2,422,259; June 17.
- Pratt, Burt C., and P. L. Salzberg, Brandywine Hundred, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Orienting ferromagnetic flakes in paint films. 2,418,479; Apr. 8.
- Pratt, Burt C., and H. S. Rothrock, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Bonding of laminates by means of isocyanates. 2,430,479; Nov. 11.
- Pratt, Hazen C., Detroit, Mich. Sequence relay. 2,419,032; Apr. 15.
- Pratt, James H., Hall Green, Birmingham, and A. H. G. Girling, Redgrave, Diss, Norfolk, England, said Girling assignor to said Pratt. Servomechanism. 2,432,798; Dec. 16.
- Pratt, John L., assignor to M. I. Pratt, Tyngsboro, Mass. Attachment for looms. 2,431,584; Nov. 25.
- Pratt, Mary L., assignee: *See*—  
Pratt, John L.
- Pratt, Read & Co., Inc., assignee: *See*—  
Stein, Charles F.
- Pratt, Verneur E., and G. F. Gray, Norwalk, Conn. Film processor. 2,424,052; July 15.
- Pratt, Verneur E., and G. F. Gray, Norwalk, Conn. Paper collector for paper handling machines. 2,433,530; Dec. 30.
- Pratt, Verneur E., G. F. Gray, and D. E. Reed, Norwalk, Conn.; said Gray and said Reed assignors to said Pratt. Apparatus for automatically processing film. 2,428,681; Oct. 7.
- Pratt, William B., deceased, Boston, Mass.; A. H. Pratt, administratrix, assignor, by mesne assignments, to J. G. Denny, Jr. Esterification. 2,429,643; Oct. 28.
- Pratt, William B., deceased, Boston, Mass.; A. H. Pratt, administratrix, assignor, by mesne assignments, to J. G. Denny, Jr. Esterification. 2,429,644; Oct. 28.
- Pratt, William B., deceased, Boston, Mass.; A. H. Pratt, administratrix, assignor, by mesne assignments, to J. G. Denny, Jr. Esterification. 2,429,645; Oct. 28.
- Pratt, Wm. E., Mfg. Co., assignee: *See*—  
Peterson, Axel T.
- Praytor, Dennis M., and K. Kershaw, Birmingham, Ala. Cribbing machine. 2,414,767; Jan. 21.
- Preco Incorporated, assignee: *See*—  
Bivans, Elbert L., Beemer, and Montgomery.
- Preformed Parts, Inc., assignee: *See*—  
Schuler, George, Jr.
- Preis, Carl G., Forest Hills, N. Y. Cafeteria tray. 2,419,229; Aug. 22.
- Preisman, Albert, Flushing, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Transmitter adjusting system. 2,418,139; Apr. 1.
- Preisman, Albert, Flushing, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Pulse echo system. 2,419,590; Apr. 29.
- Premier Crystal Laboratories, Inc., assignee: *See*—  
Bach, Henry M.
- Premium Merchandising Corporation, assignee: *See*—  
Moore, David P.
- Prendergast, David T.: *See*—  
Kagy, John F., and Prendergast.
- Preneta, Peter A., Derby, assignor of one-third to L. De Marco, Shelton, Conn. Woven fabric and making the same. 2,424,771; July 29.
- Prentice, G. E., Mfg. Co., The, assignee: *See*—  
Legat, Robert C.
- Prentice, James M., assignee, et al.: *See*—  
Ellis, Clarence M.
- Prentice, James M., South Hadley, Mass. Game apparatus. 2,417,173; Mar. 11.
- Prentice, James M., South Hadley, Mass. Game apparatus. 2,426,048; Aug. 19.
- Prentice, William G., Indianapolis, Ind. Tool handle. 2,417,946; Mar. 25.
- Prentiss, John G.: *See*—  
Adler, Robert, and Prentiss.
- Prentiss, John G., Berwyn, Ill., assignor to Zenith Radio Corporation. Amplifier circuit. 2,424,847; July 29.
- Preneville, Donald E., Oakland, Calif. Fruit splitting and pitting device. 2,417,174; Mar. 11.
- Pre-Pack Freezer Corporation, assignee: *See*—  
Mayne, Walter W., and Murphy.
- Prescott, Ford L., Gainesville, Fla., assignor to Continental Aviation & Engineering Corporation, Detroit, Mich. Turbine rotor. 2,430,185; Nov. 4.
- Press, Jack, Rahway, N. J. Leakproof container. Re. 22,885; May 27.
- Press Wireless, Inc., assignee: *See*—  
Chapin, Reynold S.  
Crosby, Murray G.  
Rustad, Arthur C.  
Sprague, Robert M.
- Pressed Steel Tank Company, assignee: *See*—  
Merker, Herman, and Graham.
- Pressel, Otto, and G. A. M. Diepstraten, Carshalton, England, assignors to The Hartford National Bank & Trust Company, as trustee, Hartford, Conn. Metal-glass joint. 2,431,277; Nov. 18.
- Presser, Eric A. F., East Chicago, Ind. Flexible shock absorbing power coupling. 2,418,315; Apr. 1.
- Pressler, Ralph B.: *See*—  
Griffith, Clement E., Pressler, and Delaney.
- Pressman, Jacob, New York, N. Y. Paint cup. 2,424,898; July 29.
- Pressite Engineering Company, The, assignee: *See*—  
Ferguson, William C.
- Ferguson, William C., and Sussenbach.
- Pressure-Jet Systems, Inc., assignee: *See*—  
Miller, Frank J.
- Pressure Weld Company, assignee: *See*—  
Forbes, Arthur L., Jr.
- Prest, Clarence O., Burbank, Calif. Electrolytically reproducing prints or designs. 2,421,735; June 3.
- Preston, John, Hopewell, N. J., assignor to Radio Corporation of America. Coaxial dual-unit electrodynamic loud-speaker. 2,426,948; Sept. 2.
- Preston, Neil D., assignor to General Railway Signal Company, Rochester, N. Y. Coded track circuit signaling system. Re. 22,939; Nov. 25.
- Preston, Neil D., assignor to General Railway Signal Company, Rochester, N. Y. Coded track circuit signaling system. Re. 22,940; Nov. 25.
- Previdi, William T., Allendale, N. J. Garment pocket. 2,424,666; July 29.
- Prewitt, Richard H.: *See*—  
Miller, Charles C., and Prewitt.
- Preysch, Friedrich, assignor to Actiengesellschaft Joh. Jacob Rieter & Cie, Winterthur, Switzerland. Production of cops in ring spinning and ring doubling machines. 2,421,908; June 10.
- Price, Albert, assignee: *See*—  
Wilder, Charlton.
- Price, Arthur W., assignor to Snowwhite Garment Manufacturing Company, Milwaukee, Wis. Garment. 2,415,845; Feb. 18.
- Price, Earl R.: *See*—  
Thomas, Thomas H., and Price.
- Price, Earl R., assignor to Bendix Aviation Corporation, South Bend, Ind. Control valve. 2,429,194; Oct. 14.
- Price, Earl R., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake actuating system. 2,429,195; Oct. 14.
- Price, Earl R., assignor to Bendix Aviation Corporation, South Bend, Ind. Tractor-trailer braking system. 2,429,196; Oct. 14.
- Price, Earl R., assignor to Bendix Aviation Corporation, South Bend, Ind. Trailer shutoff valve. 2,429,197; Oct. 14.
- Price, George E., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Heating apparatus. 2,414,667; Jan. 21.



- Price, Harold W., assignor to Bendix Aviation Corporation, South Bend, Ind. Clutch control mechanism. 2,420,996; May 20.
- Price, Harold W., assignor to Bendix Aviation Corporation, South Bend, Ind. Switch mechanism. 2,420,997; May 20.
- Price, Manley R., Lakewood, Ohio. Self-clinching nailing ground. 2,419,420; Apr. 22.
- Price, Nathan C., Hollywood, and H. A. Greenwald, West Los Angeles, assignors to Lockheed Aircraft Corporation, Burbank, Calif. Apparatus for welding vanes to turbine rotors. 2,426,746; Sept. 2.
- Price, Osborne I., assignor to Magnetic Devices, Inc., Frederick, Md. Electric relay. 2,423,116; July 1.
- Price, Ralph E., Highfield, Md., assignor to Landis Tool Company, Waynesboro, Pa. Balancing valve. 2,421,219; May 27.
- Price, Robert E.: See—  
Kremers, Harry C., and Price.
- Price, Robert W.: See—  
Murcek, Slavo J., and Price.
- Price, Rupert C., Santa Rosa, Mo. Compression links of tractors. 2,415,968; Feb. 18.
- Prichard, Arthur C., Long Branch, N. J., assignor to the United States of America, as represented by the Secretary of War. Noise reducing in pulse reception. 2,427,691; Sept. 23.
- Prichard, Arthur C., Long Branch, and I. O. Myers, Neptune, N. J., assignors to the Government of the United States of America, as represented by the Secretary of War. Asymmetrically conducting network. 2,418,480; Apr. 8.
- Prichard, John, Bloomfield, and D. Flitter, Newark, N. J., assignors to Celanese Corporation of America. Cellulose ether plastic and a canteen made thereof. 2,422,747; June 24.
- Prickett, Alfred J., Des Plaines, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Manufacturing electrical resistors. 2,427,417; Sept. 16.
- Prickett, Thomas B., Merion, and J. R. Bates, Swarthmore, Pa., assignors to Houdry Process Corporation, Wilmington, Del. Preparation of contact materials. 2,415,441; Feb. 11.
- Prickett, Thomas B., Bryn Mawr, and R. C. Lassiat, Media, Pa., assignors to Houdry Process Corporation, Wilmington, Del. Catalytic converter. 2,432,543; Dec. 16.
- Pride, George H., New York, N. Y. Handling loads in vehicles. 2,421,128; May 27.
- Pridham, Edwin S., Oakland, Calif., assignor to The Magnavox Company, Port Wayne, Ind. Electric impulse generator. 2,426,322; Aug. 26.
- Priem, Harry E., Dunmore, Pa. Brush holder. 2,423,658; July 8.
- Priest, Homer F., New York, and A. V. Grosse, Bronxville, N. Y., assignors to the Government of the United States, as represented by the Office of Scientific Research and Development, Office for Emergency Management. Apparatus for the storage of fluorine. 2,419,915; Apr. 29.
- Priest, Homer F., New York, and A. V. Grosse, Bronxville, N. Y., assignors to the Government of the United States, as represented by the Director of the Office of Scientific Research and Development, Office for Emergency Management. Welding or cutting metal by hydrogenfluorine flame. 2,421,649; June 3.
- Priester, Henry, Middletown, N. Y. Truck hoist. 2,424,899; July 29.
- Prime Manufacturing Company, assignee: See—  
Kelly, Daniel A.
- Prime Manufacturing Company, The, assignee: See—  
Moore, Sidney A.
- Primus, Irving, Forest Hills, assignor to Isidor Gerber, Brooklyn, N. Y. Garment stripping mechanism. 2,433,293; Dec. 23.
- Primus, Irving, Forest Hills, assignor to Isidor Gerber, Brooklyn, N. Y. Garment stripping machine. 2,433,294; Dec. 23.
- Primus, Irving S., assignor to Reeves-Ely Laboratories, Inc., New York, N. Y. Apparatus for lapping quartz oscillator plates. 2,419,033; Apr. 15.
- Primus, Irving S., assignor to Reeves-Ely Laboratories, Inc., New York, N. Y. Bearing and seal therefor. 2,419,034; Apr. 15.
- Prince, Alfred J., assignor to Societe Salvare, Societe Anonyme, Le Havre, France. Winch for life boats. 2,427,877; Sept. 23.
- Prince, Charles W., Kansas City, Mo. Device for supporting articles on garments. 2,423,948; July 15.
- Prince, David C., Schenectady, N. Y., assignor to General Electric Company. Switching means. 2,416,951; Mar. 4.
- Prince, Harry E., Louisville, Ohio. Branding tool. 2,427,067; Sept. 9.
- Prince, John, Brooklands, England. Induction type electricity meter. 2,421,285; May 27.
- Prindle, Charles: See—  
Yardeny, Michel N., and Bernas and Prindle.
- Pringle, Artoleon E., Gloversville, N. Y. Gravity flashlight switch. 2,426,373; Aug. 26.
- Printasign Corporation of America, assignee: See—  
Reynolds, Milton, and Barrett.
- Prior Stokers Limited, assignee: See—  
Scott, Francis P. D.
- Pritchard, Charles A. G., Parma, assignor to E. W. Lehman, East Cleveland, Ohio. Clamping means. 2,422,039; June 10.
- Private Opinions, Inc., assignee: See—  
White, Percival.
- Prociak, Paul S., Flint, assignor to General Motors Corporation, Detroit, Mich. Car loading equipment. 2,428,893; Oct. 14.
- Proctor, Bryant S., Chicago, Ill. Golf cart. 2,428,853; Oct. 14.
- Procter & Gamble Company, assignee: See—  
Woodruff, George M.
- Proctor Electric Company, assignee: See—  
Myers, Joseph W.
- Proctor, George N., Verona, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Storage battery plate and separator assembly. 2,422,130; June 10.
- Proctor & Schwartz, Inc., assignee: See—  
Hurxthal, Alpheus O.  
Senior, John H.  
Weber, John W., and Davies.
- Production Engineering Corporation, assignee: See—  
Goodlatte, Robert K.
- Production Instrument Company, assignee: See—  
Poole, Frederick A.  
Tatter, Ernest.
- Productive Inventions, Inc., assignee: See—  
Anderson, John W.  
Smulski, Theodore J.
- Products Development, Inc., assignee: See—  
Barlick, Michael.  
Grant, Samuel.
- Proell, Wayne A., assignor to Standard Oil Company, Chicago, Ill. Process and apparatus for adiabatic fractionation. 2,416,404; Feb. 25.
- Proell, Wayne A., assignor to Standard Oil Company, Chicago, Ill. Hydrocarbon fuels. 2,422,566; June 17.
- Proell, Wayne A., assignor to Standard Oil Company, Chicago, Ill. Production of sulfonic acids. 2,433,396; Dec. 30.
- Proell, Wayne A., Chicago, Ill., and B. H. Shoemaker, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Production of oxygenated sulfur compounds. 2,433,395; Dec. 30.
- Progressive Welder Company, assignee: See—  
Bagley, William H., Jr.  
Johnson, Fred H., and Leathers.  
Purat, Hugo.
- Prokofieff, Ivan M., Staten Island, N. Y. Centrifugal pump. 2,420,401; May 13.
- Proll, Gustave, Newark, N. J. String tensioning device for musical instruments. 2,416,593; Feb. 25.
- Pro-phy-lac-tic Brush Company, assignee: See—  
D'Alelio, Gustavo F.  
Esselen, Gustavo J., and Gurley.
- Proskauer, Richard, Westbury, and V. J. Young, Jamaica, N. Y., assignors to Sperry Gyroscope Company, Inc. Homing system. 2,417,086; Mar. 11.
- Prosperity Company, Inc., The, assignee: See—  
Davis, Ernest.
- Prost, Raymond J., Chicago, Ill. Picture frame. 2,428,242; Sept. 30.
- Provenzano, Gaetano, New York, N. Y. Military tank for salvaging aeroplanes. 2,417,612; Mar. 18.
- Providence Braid Company, assignee: See—  
Rafter, John R.
- Provincial Paper Limited, assignee: See—  
Rogers, Cyril R.
- Pruitt, John G., San Diego, and E. R. Oberdorf, Lakeside, Calif., assignors to Magnaflex Corporation, Chicago, Ill. Magnetic testing method and apparatus. 2,428,471; Oct. 7.
- Pruitt, Rodman C., Seymour, Ind., and E. F. Fowle and R. S. Iglehart, assignors to The Steel Products Engineering Company, Springfield, Ohio. Surface finishing. 2,425,640; Aug. 12.
- Pruitt, Carl F., Cleveland, assignor to The Lubri-Zol Corporation, Wickliffe, Ohio. Lubricant. 2,417,087; Mar. 11.
- Pruitt, Carl F., Cleveland Heights, assignor, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio. Lubricating composition. 2,417,088; Mar. 11.
- Publisher Commercial Alcohol Company, assignee: See—  
Wilder, Richard S., and Dolnick.
- Publisher Industries Inc., assignee: See—  
Beesch, Samuel C., and Legg.  
Carnarius, Edwin H.  
Josefowitz, David.  
Kamlet, Jonas.  
Legg, David A.  
Wilder, Richard S.
- Publix Metal Products Inc., assignee: See—  
Nisenson, Jules, and Blazer.
- Puchlowski, Konstanty P., Wilkensburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electronic control for motors. 2,422,567; June 17.
- Pudelko, Richard, H. Meier, and W. Zingg, assignors to Landis & Gyr, A. G., Zug, Switzerland. Alternating current power switch. 2,430,367; Nov. 4.
- Pudelko, Richard, Zug, and E. Widmer, Oberwil/Zug, assignors to Landis & Gyr, A. G., Zug, Switzerland. Spring motor mounting. 2,431,503; Nov. 25.



- Puerner, George O., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Time switch. 2,424,116; July 15.
- Puett Electrical Starting Gate Corporation, assignee: *See—*  
Whann, Jesse P., and Harris.
- Pugh, Cyril A.: *See—*  
Stokes, Philip H., Greenland, and Pugh.
- Pugh, Merlin L., Minneapolis, Minn. Battery changing apparatus. 2,431,707; Dec. 2.
- Pugh, Merlin L., Minneapolis, Minn. Battery testing and charging system. 2,432,068; Dec. 2.
- Pugh, Merlin L., Minneapolis, Minn. Battery charger. 2,432,069; Dec. 2.
- Pugh, Walter E., Sabina, Ohio, assignor to H. C. Hubbard, Rockford, Ill. Ratchet wrench. 2,430,480; Nov. 11.
- Puim, Manuel E., Richmond, Calif. Buck rake loader attachment for tractors. 2,427,301; Sept. 9.
- Pullen, Fred W., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Spring brush control for carpet sweepers. 2,418,725; Apr. 8.
- Pullen, Rodney S., Akron, Ohio, assignor to Pullenlite Company, Philadelphia, Pa. Conveyor for handling match combs. 2,426,414; Aug. 26.
- Pullenlite Company, assignee: *See—*  
Pullen, Rodney S.
- Pulliam, Norman A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Multi-component wave generator. 2,428,989; Oct. 14.
- Pullin, Cyril G., Langside, Glasgow, Scotland. Helicopter. 2,429,646; Oct. 28.
- Pullman Company, The, assignee: *See—*  
Jones, Basil E., and Tully.
- Pullman-Standard Car Manufacturing Company, assignee: *See—*  
Candlin, James E., Jr., and Howe.
- Puls, Lawrence J., Custer, Ohio. Electric welding current control. 2,415,532; Feb. 11.
- Pulverizing Machinery Company, assignee: *See—*  
Sheldon, William M.
- Pulvers, Joseph, Brooklyn, N. Y. Container and closure therefor. 2,418,367; Apr. 1.
- Pumphrey, James O., Staten Island, N. Y. Doorstop. 2,413,782; Jan. 7.
- Punte, William F.: *See—*  
Coyle, John, and Punte.
- Purat, Hugo, assignor to Progressive Welder Company, Detroit, Mich. Welding control apparatus. 2,413,783; Jan. 7.
- Purdue Research Foundation, assignee: *See—*  
de Bey, Albert L. G.  
Gwynn, Bernard H., and Degering.  
Jenkins, Glenn L., and Christian.  
Ligett, Waldo B., McBee, and Lindgrin.  
Spence, John A., and Degering.  
Webb, Richard C.
- Purdy, Harry W., Long Beach, Calif. Automatic article dispenser. 2,425,560; Aug. 12.
- Purdy, John F., Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Pneumatic tire. 2,432,630; Dec. 16.
- Pure Oil Company, The, assignee: *See—*  
Ayers, George W.  
Ayers, George W., Barton, and Harton.  
Ayers, George W., and Harton.  
Ayers, George W., Harton, and Henderson.  
Bell, Richmond T.  
Bond, Donald C.  
Bond, Donald C., and Ayers.  
Bond, Donald C., and Savoy.  
Folkins, Hillis O.  
Folkins, Hillis O., and Thacker.  
Henderson, Lawrence M., and Ayers.  
Henderson, Lawrence M., Bond, and Savoy.  
Lang, Edward H.  
Marisc, Milton M.  
Porter, Charles A.  
Stucker, Joseph B.  
Thacker, Carlisle M.  
Thacker, Carlisle M., and Swann.  
Williams, Norman D., and Backoff.  
Yule, John S., and Moir.
- Purington, Ellison S., Gloucester, Mass., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Multiplex control system. 2,424,900; July 29.
- Purpura, August C., Chicago, Ill. Rotary drum drying machine. 2,416,405; Feb. 25.
- Purpura, August C., Chicago, Ill. Vacuum hand ironing and drying apparatus. 2,427,474; Sept. 16.
- Purves Corporation, assignee: *See—*  
Beach, Lennox F.
- Push-Back Chair Co., assignee: *See—*  
McDonald, Sterling B.
- Puster, Louis M., assignor to The Fulton Sylphon Company, Knoxville, Tenn. Temperature regulator. 2,422,924; June 14.
- Puster, Louis M., assignor to The Fulton Sylphon Company, Knoxville, Tenn. Temperature regulator. 2,425,439; Aug. 12.
- Puster, Louis M., assignor to The Fulton Sylphon Company, Knoxville, Tenn. Apparatus and method for forming corrugations. 2,426,949; Sept. 2.
- Putman, Henry V., and M. G. Leonard, Sharon, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Steering apparatus. 2,419,164; Apr. 15.
- Putnam, John P., Boston, Mass., assignor to The Reece Corporation. Angle-measuring instrument. 2,423,049; June 24.
- Putnam, Otto A., West Reading, Pa. Ophthalmic test instrument for the ocular muscles. 2,420,012; May 6.
- Putney, David H.: *See—*  
Stratford, Charles W., Altshuler, and Putney.  
Stratford, Charles W., and Putney.
- Putney, David H., assignor to Stratford Development Corporation, Kansas City, Mo. Contacting reactants with catalytic material. 2,419,088; Apr. 15.
- Putney, Herbert S.: *See—*  
Shaw, Clyde M., and Putney.
- Pye, David J., Pittsburg, and M. F. Leduc, Walnut Creek, Calif., assignors to The Dow Chemical Company, Midland, Mich. Purification of caustic alkali. 2,415,798; Feb. 11.
- Pye Limited, assignee: *See—*  
Germany, Leslie W.  
Jackson, Donald.  
Lawson, Dennis I.
- Pye, Walter W., Richmond, Va. Adjustable window shade and curtain bracket. 2,420,977; May 20.
- Pyle, Ralph D., Pleasant Hills, assignor to Copperweld Steel Company, Glassport, Pa. Insulator tie for line conductors. 2,421,286; May 27.
- Pyrene Company Limited, The, assignee: *See—*  
Hunter, John N.  
Ratzer, Arthur F.
- Pyrene Manufacturing Company, assignee: *See—*  
Dodelin, Frederick A., and MacGregor.  
Donroe, Louis J.
- Pyridium Corporation, assignee: *See—*  
Feinstone, Wolfe H., and Friedman.  
Friedman, Harris L., and Braitberg.
- Quackenbush, Edward C., Roselle, Ill. Coaxial cable connector. 2,422,982; June 24.
- Quaker Chemical Products Corp., assignee: *See—*  
Klaber, Joseph H.  
Longley, Kermit.
- Quaker Chemical Products Corporation, assignee: *See—*  
Klaber, Joseph H.
- Quaker Foundation, Inc., assignee: *See—*  
Block, Walter W.
- Quaker Oats Company, The, assignee: *See—*  
Andrews, Edward D.  
Johnson, Warren C.  
Kirk, Douglas.  
Nielsen, Erik R.  
Turner, Charles W., and Reineke.
- Quality Appliances, Inc., assignee: *See—*  
Snyder, Leland H.
- Quality Engraving & Electrotpe Company, The, assignee: *See—*  
Deye, Erwin G.
- Quam, Sidney N.: *See—*  
Horneman, Herman C., Hussong, Quam, and Hammer.
- Quarles, Richard W., Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation. Stabilized chlorine-containing resins. 2,432,586; Dec. 16.
- Quarnstrom, Ivar T., Detroit, Mich. Mold base. 2,419,089; Apr. 15.
- Quayle, George, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lift truck. 2,424,417; July 22.
- Quayle, Joshua C., Helsby, P. Jones, Kelsall, near Chester, and R. Bayles, Helsby, assignors, by mesne assignments, to British Insulated Callender's Cables Limited, London, England. Slitting of insulating material. 2,425,123; Aug. 5.
- Quebatte, Arthur, Boulogne-sur-Seine, and E. Seignol, Paris, France; vested in the Attorney General of the United States. Electric clock mechanism. 2,423,117; July 1.
- Queen, Chester V., Jeffersonville, Ind. Spraying device for coating the inside of pipe. 2,428,292; Sept. 30.
- Queensboro Manufacturing Company, assignee: *See—*  
Molyneux, Cecil P., and Roosa.
- Quidas, Frederick W., New York, N. Y. Pocket pen and pencil protector. 2,425,561; Aug. 12.
- Quigg, Murray T., trustee, assignee, et al.: *See—*  
Hopkins, Nevil M.
- Quigley, Charles J., U. S. Navy. Magnetic minesweeping electrode cable. 2,419,591; Apr. 29.
- Quigley Company, Inc., assignee: *See—*  
Thayer, Howard C.
- Quigley, Herbert, assignor to National Brass Company, Grand Rapids, Mich. Mortising gauge. 2,422,367; June 17.
- Quigley, James E.: *See—*  
Dworkowski, John, and Quigley.
- Quik-Seal, Inc., assignee: *See—*  
Sticelber, Merlin A.
- Quindry, John M., Fairfield, Ill. Snath for scythes. 2,421,162; May 27.
- Quinlan, Joseph E., assignee: *See—*  
Hunt, Charles M.
- Quinn, Ada, deceased; R. N. Quinn, executor, assignor to Quinn Garment Company, Ogden, Utah. Garment. 2,426,565; Aug. 26.



- Quinn, Aloysius J., North Bergen, N. J., assignor to Brooks Equipment Corporation. Cover for hinged-joint gear-assemblies. 2,431,300; Nov. 18.
- Quinn, Archibald C., assignor to Bendix Aviation Corporation, Detroit, Mich. Resistance material. 2,415,036; Jan. 28.
- Quinn, Edward, Saugus, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Assembling machine. 2,414,167; Jan. 14.
- Quinn, Edward, Saugus, and F. E. Muzzey, Haverhill, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Seam pressing machine. 2,419,596; Apr. 29.
- Quinn, Frederick A., Boston, Mass. Shoe buffing device. 2,428,339; Sept. 30.
- Quinn Garment Company, assignee: *See*—  
Quinn, Ada.
- Quinn, Joseph L., Matawan, and E. G. Spader, Roselle Park, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of molding powders. 2,419,035; Apr. 15.
- Quinn, Robert N., executor: *See*—  
Quinn, Ada.
- Quinnell, L. E.: *See*—  
Koonz, John C., Quinnell, and Severance.
- Quinnell, la Vern E., J. C. Koonz, and R. H. Severance, assignors to The Magnavox Company, Fort Wayne, Ind. Selective control for arming bombs and the like. 2,430,617; Nov. 11.
- Quirk Battery Company, assignee: *See*—  
Quirk, Wellington J.
- Quirk, Wellington J., Deerfield, assignor to Quirk Battery Company, Highland Park, Ill. Battery. 2,414,210; Jan. 14.
- Quiroz, Francisco A., Newark, N. J. Rotary pump. 2,429,368; Oct. 21.
- Quist, Oscar, assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. 2,414,168; Jan. 14.
- Quitter, John P., Cincinnati, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Tuning means for magnetrons. 2,429,295; Oct. 21.
- Raasch, Maynard S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Halogenated hydrocarbons. 2,424,667; July 29.
- Raasch, Maynard S., Wilmington, and C. W. Theobald, Christiana Hundred, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical process and products. 2,418,850; Apr. 15.
- Rabal, Alfredo, and A. Rodriguez, Buenos Aires, Argentina. Combination lock. 2,433,157; Dec. 23.
- Rabarts, Frederick W.: *See*—  
Clifton, John C., and Rabarts.
- Rabasa, Joseph: *See*—  
Gwaltney, Eugene C., Jones, and Rabasa.
- Rabe, William H., Upper Arlington, Ohio. Antiskid device for chairs. 2,423,659; July 8.
- Rabell, William H., Fitchburg, Mass. Method of and machine for making tampons. 2,425,004; Aug. 5.
- Rabenda, Edward J.: *See*—  
Mills, Albert W., Furman, and Rabenda.
- Rabenda, Edward J., Binghamton, and F. J. Furman, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Record controlled multiple line printing mechanism. 2,426,049; Aug. 19.
- Rabinawitz, Mendel: *See*—  
Drieschman, Donald F., Shepherd, Rabinawitz, Newhall, and Sorg.
- Rabinovitz, David, Brooklyn, N. Y. Footwear protector. 2,420,618; May 13.
- Rabinow, Jacob, Washington, D. C., assignor to United States of America, as represented by the Secretary of War, and his successors in office. Course-recording camera. 2,420,339; May 13.
- Rabinowitz, Jacob, Brooklyn, assignor, by mesne assignments, to Pavelle Color Incorporated, New York, N. Y. Light color temperature control. 2,433,624; Dec. 30.
- Rackett, Gerald F., Los Angeles, assignor to Technicolor Motion Picture Corporation, Hollywood, Calif. Film stripping. 2,415,442; Feb. 11.
- Radabaugh, John M., Mount Vernon, Ohio. Electric motor control and differential gear drive for lawn mowers. 2,417,613; Mar. 18.
- Rader, Eva, executrix: *See*—  
Rader, Harvey S.
- Rader, Harvey S., Palmerton, Pa.; Eva Rader, executrix of said Harvey S. Rader, deceased. Treating brick. 2,430,647; Nov. 11.
- Rader, Louis T., Schenectady, N. Y., assignor to General Electric Company. Magnetic drive. 2,422,040; June 10.
- Rader, William M., Hoven, S. Dak. Computer. 2,413,888; Jan. 7.
- Radford, Albert E., Canton, Ohio. Decorating pottery. 2,424,117; July 15.
- Radford, George S., Norwalk, Conn., and I. S. Hurd, Abington, assignors to Röhm & Haas Company, Philadelphia, Pa. Impregnation of regenerated cellulose fibers. 2,415,564; Feb. 11.
- Radford, Herschel D.: *See*—  
Lee, Robert J., and Radford.
- Radio City Products Co., Inc., assignee: *See*—  
Liebllich, Morris.
- Radio Condenser Company, assignee: *See*—  
Weiss, Melvin V.
- Radio Corporation of America, assignee: *See*—  
Albin, Frederick G.  
Anderson, Earl I., and Barco.  
Anderson, Warren A.  
Anderson, Warren A., and Mathes.  
Artzt, Maurice.  
Atwood, John B.  
Atwood, John B., and Peterson.  
Ayres, Jay J.  
Badmaleff, Alexis.  
Bartelson, Sten E.  
Bauer, Robert.  
Beard, Joseph G.  
Bedford, Alda V.  
Bedford, Alda V., and Meneley.  
Belar, Herbert, and Guedon.  
Beverage, Harold H.  
Blessing, Gregory W.  
Bliss, Warren H.  
Bliss, Warren H., and Smith.  
Blodgett, Edward D.  
Bobrow, Edwin N.  
Bond, Donald S.  
Born, Leo W.  
Brown, George H.  
Brown, George H., and Bierwirth.  
Brown, George H., and Peterson.  
Brown, George H., and Woodward.  
Brumbaugh, John M.  
Byrnes, Irving F.  
Cain, Elmer B.  
Carlson, Wendell L.  
Carlson, Wendell L., and Landon.  
Carter, Philip S.  
Clark, Robert W.  
Clark, Robert W., and Somers.  
Collins, Milford E.  
Conklin, James W.  
Crosby, David R.  
Crosby, Murray G.  
Deal, Harmon B.  
De Ryder, Herbert.  
De Vore, Henry B.  
Dimmick, Glenn L.  
Dow, Orville E.  
Duke, Vernon J.  
Eaton, Thomas T.  
Engstrom, Ralph W.  
Epstein, David W.  
Ettér, Howard E.  
Evans, John.  
Fernsler, George L.  
Ferris, Warren R.  
Finch, James L., and Hansell.  
Foster, Dudley E.  
Garner, Lloyd P., and Bricker.  
Gehman, John B.  
George, Ralph W.  
Goddard, De Witt R.  
Goldsmith, Alfred N.  
Goldstine, Hallan E.  
Gottier, Thomas L.  
Green, Norval H., and Warren.  
Grisdale, George L., and Norwood.  
Grundmann, Gustave L.  
Gubin, Samuel.  
Guedon, Emile C.  
Haef, Andrew V.  
Haeseler, Leonard W., and Watson.  
Hallborg, Henry E., and Clark.  
Haller, Cecil E.  
Hansell, Clarence W.  
Harvey, Robert L.  
Hathaway, Järrett L.  
Haynes, Harold E.  
Heim, Howard J.  
Herbst, Philip J.  
Hershberger, William D.  
Hillier, James.  
Hillier, James, and Baker.  
Houghton, William D.  
Hoyler, Cyril N.  
Huff, Henry S.  
Hulst, George D., Jr.  
Hulst, George D., Schoenfeld, and Mountjoy.  
Iams, Harley A.  
Janes, Robert B.  
Kahn, Alfred, and Harris.  
Kahn, Alfred, Phelps, and Spencer.  
Kelzer, Eugene O.  
Kell, Ray D., and Tolson.  
Kellogg, Edward W.  
Kennedy, Gilbert J.  
Kentner, Carroll D.  
Kihn, Harry.  
Kilgore, George R.  
Koch, Winfield R.  
Korman, Nathaniel I.  
Kozanowski, Henry N.  
Kreuzer, Barton.  
Lakatos, Louis L.  
Landon, Vernon D.  
Lane, Albert E.  
Law, Harold B.



Radio Corporation of America, assignee: *See*—Continued.

Law, Russell R.  
 Leck, George W.  
 Lesnick, Robert N., and Matson.  
 Leverenz, Humboldt W.  
 Liebscher, Arthur.  
 Lindenblad, Nils E.  
 Linder, Ernest G.  
 Luck, David G. C.  
 Lyons, Walter.  
 MacSorley, Olin L.  
 Malter, Louis.  
 Martin, Stuart T., Jr.  
 Massa, Frank.  
 Masters, Robert W.  
 Mathes, Richard E.  
 McLaughlin, Kenneth M.  
 Mell, Clifford W.  
 Mercer, William R.  
 Miller, William A.  
 Miller, William A., and Shenk.  
 Mitchell, John C. E., and Morrison.  
 Morton, George A., and Flory.  
 Murdoch, Alexander, Jr.  
 Nergaard, Leon S.  
 Newman, William E.  
 Nicoll, Frederick H.  
 Norton, Lowell E.  
 Olden, Roger G.  
 Olson, Harry F.  
 Olson, Harry F., and Hester.  
 Pessel, Leopold.  
 Peterson, Harold O.  
 Peterson, Harold O., and Trevor.  
 Peterson, Harold O., and Wickizer.  
 Picard, Robert G.  
 Poch, Waldemar J.  
 Preston, John.  
 Purington, Ellison S.  
 Rajchman, Jan A.  
 Rajchman, Jan A., and Morton.  
 Rajchman, Jan A., and Snyder.  
 Reinhold, Leonhard F.  
 Rettinger, Michael.  
 Reynolds, James H.  
 Rhea, Henry E.  
 Rhea, Henry E., and Wipff.  
 Roberts, Wesley M.  
 Roberts, Walter van B.  
 Roberts, Walter V., and Frantz.  
 Robinson, Harris A.  
 Rosencrans, Charles A.  
 Runge, Frank E.  
 Runge, Frank E., and Smith.  
 Ryan, Byron F., and Smith.  
 Sachtleben, Lawrence T.  
 Sanders, Royden C., Jr.  
 Sands, William F.  
 Scheldorf, Ranaid D.  
 Schlesinger, Kurt.  
 Schoenborn, Ferdinand J.  
 Schoenfeld, Earl.  
 Schoenfeld, Earl H.  
 Seeley, Stuart W.  
 Selby, Eugene O.  
 Seright, Carl G.  
 Shenk, Eugene R.  
 Shmurak, Benjamin, and Hulst.  
 Singer, Kurt.  
 Sinnett, Chester M.  
 Sloss, Robert.  
 Smith, John P.  
 Smith, Lloyd P.  
 Smith, Perry C.  
 Smith, Rogers M.  
 Smith, Perry C., Runge, and Dornfeld.  
 Snepvangers, Rene.  
 Snyder, Richard L., Jr.  
 Snyder, Richard L., Jr., and Rajchman.  
 Solomon, Myer.  
 Somers, Frank J.  
 Sonthelmer, Carl G.  
 Sonthelmer, Carl G., and Korman.  
 Spencer, James A.  
 Spooner, John M.  
 Stone, Robert P.  
 Stott, Harold B.  
 Sziklai, George C.  
 Thomas, Harry E.  
 Thompson, Leland E.  
 Tolson, William A.  
 Torsch, Charles E.  
 Torsch, Charles E., and Cain.  
 Tourshou, Simeon I.  
 Tourshou, Simeon I., and Trachtenberg.  
 Trevor, Bertram A., and Atwood.  
 Tunick, Harry.  
 Turner, Alfred H.  
 Underhill, Joseph L.  
 Usselman, George L.  
 Vance, Arthur W.  
 Varnum, Walter B.  
 Varone, Ralph A.  
 Vilkomerson, Benjamin S.  
 Walsh, Allen A.

Radio Corporation of America, assignee: *See*—Continued.

Warren, William H.  
 Washburn, Edward M.  
 Weathers, Paul.  
 Wehner, Robert S.  
 Wentworth, Chandler.  
 Wheeler, Benjamin F.  
 Whittaker, James L.  
 Wickizer, Gilbert S.  
 Williams, Fred E.  
 Wilson, William S.  
 Winlund, Edmond S.  
 Wolf, Lester J.  
 Wolff, Irving.  
 Wolff, Irving, and Hathaway.  
 Wolff, Irving, and Sanders.  
 Woll, Harry J.  
 Woodward, Guy.  
 Woodward, Oakley M., Jr.  
 Young, Charles J.  
 Young, Lloyd L.  
 Zimmerman, Arthur G.  
 Zworykin, Vladimir K.  
 Radio Patents Corporation, assignee: *See*—  
 Gabriel, Marcel, and Guanella.  
 Plebanski, Jozef.  
 Rath, Karl.  
 Rado, Leopold, Whitehaven, England. Magnetic marker for maps. 2,431,827; Dec. 2.  
 Radtke, William, Chicago, Ill., assignor to Mojonner Bros. Co. Heat exchanger. 2,425,826; Aug. 19.  
 Radwanski, Edward J., Chicago, Ill. Plunger type voltage indicator. 2,426,050; Aug. 19.  
 Rady, William J.: *See*—  
 Little, John H., and Rady.  
 Rady, William J., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Battery-charging system. 2,421,523; June 3.  
 Rady, William J., and L. A. Rice, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Resistance unit for battery filter plugs. 2,422,925; June 24.  
 Rady, William J., and L. A. Rice, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. System of generator regulation. 2,427,809; Sept. 23.  
 Raffield, Clyde R., Port St. Joe, Fla. Pipe or hose coupling. 2,419,918; Apr. 29.  
 Raffles, Frank, Chicago, Ill. Making laminated punched plywood assemblies. 2,417,175; Mar. 11.  
 Rafter, John R., Sharon, Mass., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Adhesion of rubber to magnesium. 2,415,030; Jan. 28.  
 Rafter, John R., Sharon, Mass., assignor to Providence Braid Company. Throttling device for two opposed electrically controlled forces. 2,423,727; July 8.  
 Raginsky, Harry, Montreal, Quebec, Canada. Bedspring frame. 2,430,301; Nov. 4.  
 Ragon, Pierre, New York, N. Y. Traction device for tires. 2,426,974; Sept. 2.  
 Ragsdale, Earl J. W., Norristown, and J. Ledwinka, assignors to The Budd Company, Philadelphia, Pa. Seating arrangement and construction. 2,431,661; Nov. 25.  
 Rahm, Erik T., Stockholm, Sweden, assignor of forty-five per cent to G. E. F. Palm, Calle Altanirano, Mexico. Plated article and manufacturing same. 2,424,583; July 29.  
 Raiche, Louis G.: *See*—  
 Eaton, Bruce G., Jr., Meyer, Cannon, and Raiche.  
 Raiff, Andrew, Brooklyn, S. S. and V. G. Robbins, New York, and I. S. Rosen, Brooklyn, N. Y. Photographic enlargement printing frame. 2,432,040; Dec. 2.  
 Railroad Accesories Corporation, assignee: *See*—  
 Lundy, Beverly A.  
 Railway and Industrial Engineering Company, assignee: *See*—  
 Kast, Samuel H.  
 Raimondo, Matthew J.: *See*—  
 Wind, Fred V., and Raimondo.  
 Rainard, Leo W., Wayland, assignor to General Latex and Chemical Corporation, Cambridge, Mass. Silver nitrate activator for butadiene-1,3 emulsion polymerization. 2,419,090; Apr. 15.  
 Raines, Arnold, and M. Schoenfeld, Philadelphia, Pa. Level vial construction. 2,432,124; Dec. 9.  
 Raines, Morris A., Washington, D. C., assignor to Research Corporation, New York, N. Y. Method and receptacle for propagating plants. 2,431,890; Dec. 2.  
 Rainier, Maurice N., Los Angeles, Calif. Bed hook. 2,420,095; May 6.  
 Rainsford, Thomas F., Detroit, assignor of one-half to L. Lawson, Dearborn, and one-half to A. J. D'Anna, Wyandotte, Mich. Spring suspension for vehicles. 2,415,533; Feb. 11.  
 Raison, Clifford G.: *See*—  
 Curd, Francis H. S., Raison, and Rose.  
 Raitt, Russell W., Altadena, assignor to Geophysical Engineering Corporation, Pasadena, Calif. Transducing system. 2,418,953; Apr. 15.  
 Rajchman, Jan A.: *See*—  
 Snyder, Richard L., Jr., and Rajchman.



- Rajchman, Jan A., Philadelphia, Pa., assignor to Radio Corporation of America. Electronic computer. 2,415,190; Feb. 4.
- Rajchman, Jan A., Philadelphia, Pa., assignor to Radio Corporation of America. Electronic computer. 2,415,191; Feb. 4.
- Rajchman, Jan A., Princeton, N. J., assignor to Radio Corporation of America. Electron computing device. 2,420,013; May 6.
- Rajchman, Jan A., Princeton, N. J., assignor to Radio Corporation of America. Electronic computing device. 2,428,811; Oct. 14.
- Rajchman, Jan A., Princeton, N. J., assignor to Radio Corporation of America. Electronic computing device. 2,428,812; Oct. 14.
- Rajchman, Jan A., Princeton, N. J., assignor to Radio Corporation of America. Electronic computer. 2,428,990; Oct. 14.
- Rajchman, Jan A., Philadelphia, Pa., and R. L. Snyder, Jr., Glassboro, N. J., assignors to Radio Corporation of America. Electronic computing device. 2,433,236; Dec. 23.
- Rajchman, Jan A., and G. A. Morton, Princeton, N. J., assignors to Radio Corporation of America. Electronic computing device. 2,433,237; Dec. 23.
- Rakos, Joseph F., assignor of one-half to J. W. Nelson, Cleveland, Ohio. Head shield for welders. 2,420,619; May 13.
- Rakowitzky, Gregor H., Brooklyn, assignor of one-half to J. Alster, New York, N. Y. Method of grinding and polishing gem facets. 2,429,961; Oct. 28.
- Rakowsky, Victor, assignor to Minerals Benefication, Incorporated, Joplin, Mo. Artificial magnetite in heavy-media separation. 2,430,186; Nov. 4.
- Raleigh, John F., Peshigo, Wis. Plow jointer. 2,418,954; Apr. 15.
- Raley, John H.: *See*—  
Rust, Frederick F., Raley, and Vaughan.
- Ralph, Henry W., Jamaica, N. Y. Microfilm reader and projector for records indexed on microfilm. 2,431,662; Nov. 25.
- Ralph, Sydney J.: *See*—  
Dummett, George A., and Ralph.
- Ralston Purina Company, assignee: *See*—  
Lubbehusen, Raymond E.
- Ramadanoff, Dimiter, Cleveland, Ohio, assignor to National Carbon Company, Inc. Electrical contact brush. 2,417,702; Mar. 18.
- Ramadanoff, Dimiter, Cleveland, Ohio, assignor to National Carbon Company, Inc. Electrical contact brush. 2,425,046; Aug. 25.
- Ramage, John H.: *See*—  
Hall, Roy D., and Ramage.
- Rambo, Rawdon E.: *See*—  
Jenkins, Charles F., and Rambo.
- Ramirez, Carlos A., College Park, Ga. Toy aerial bomb. 2,428,092; Sept. 30.
- Ramirez, Humberto V., Los Angeles, Calif. Landing device for aircraft. 2,433,238; Dec. 23.
- Ramo, Simon: *See*—  
Bachman, Charles H., and Ramo.
- Ramo, Simon, Schenectady, N. Y., assignor to General Electric Company. Electron microscope. 2,420,560; May 13.
- Ramo, Simon, Schenectady, N. Y., assignor to General Electric Company. Electron microscope. 2,422,041; June 10.
- Rampack, Carl: *See*—  
Clemmer, Julius B., and Rampack.
- Rampel, Guy, New York, N. Y. Germicidal solutions of phenyl mercury compounds. 2,418,986; Apr. 15.
- Ramsay, Albert, assignee, et al.: *See*—  
Young, Walker F.
- Ramsay, Duncan: *See*—  
Simpson, Thomas, Greenland, and Ramsay.
- Ramsay, Eric G., assignee, et al.: *See*—  
Ramsay, Marcus.  
Young, Walker F.
- Ramsay, Henry T., Hatch End, assignor to The M-O Valve Company Limited, London, England. Thermionic gas-filled rectifier circuit. 2,423,815; July 8.
- Ramsay, Marcus, assignee, et al.: *See*—  
Young, Walker F.
- Ramsay, Marcus, assignor of forty per cent to E. G. Ramsay and twenty per cent to H. D. Spencer, New York, N. Y. Lapping machine. 2,423,118; July 1.
- Ramsdell, Floyd A., assignor to Worcester Film Corporation, Worcester, Mass. Apparatus for making stereo pictures. 2,413,996; Jan. 7.
- Ramsey Accessories Manufacturing Corporation, assignee: *See*—  
Frisby, Frank D.  
Frisby, Frank D., and Marlen.  
Marlen, Melvin W.
- Ramsey, Charles L., Los Angeles, Calif. Tool holder. 2,422,983; June 24.
- Ramsey, Harry R., St. Louis, Mo. Hair treating cream. 2,418,664; Apr. 8.
- Ramsey, Melvin A., Buenos Aires, Argentina. Air conditioning. 2,432,587; Dec. 16.
- Ramsey, Milton G., Los Angeles, Calif. Safety lid for frying pans and the like. 2,417,124; Mar. 11.
- Ramseyer, Charles F., Old Greenwich, Conn., assignor to H. A. Brassert & Company, New York, N. Y. Reduction of magnesium. 2,416,952; Mar. 4.
- Ramstorf, John R.: *See*—  
Mitby, Lloyd G., and Ramstorf.
- Ranby, Peter W.: *See*—  
Jenkins, Henry G., McKeag, and Ranby.
- Rancourt, Alphonse, Pittsfield, Mass. Roving spool. 2,425,827; Aug. 19.
- Rand, Ben R.: *See*—  
Dosio, Italo R.
- Randall, David I.: *See*—  
Max, Fritz, and Randall.
- Randall, Francis E., New Philadelphia, Ohio. Oronasal mask. 2,415,846; Feb. 18.
- Randall, Mildred, Berkeley, Calif. Rain leggings. 2,422,851; June 24.
- Randall, Walter H., Waterville, assignor, by mesne assignments, to The Canal National Bank of Portland, and W. B. Nulty, Portland, Maine, as trustees. Pulp molding die. 2,424,189; July 15.
- Randall, Walter H., Waterville, assignor, by mesne assignments, to The Canal National Bank of Portland, a national banking association, and W. B. Nulty, Portland, Maine, as trustees. Pocketed molded pulp receptacle. 2,428,384; Oct. 7.
- Randant, Edward J., Jr., assignee, et al.: *See*—  
Hardell, Lawrence W.
- Randolph, Chalmers H., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Welding tip polisher. 2,414,834; Jan. 28.
- Randolph, Chalmers H., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Abrasive implement. 2,429,647; Oct. 28.
- Randolph, Harrison, and G. A. Kane, assignors to The Northern Pump Company, Minneapolis, Minn. Control system for hydraulic hoist. 2,419,367; Apr. 22.
- Randolph, Robert W., Milton, assignor to The Parker Pen Company, Janesville, Wis. Ball-point writing instrument. 2,427,068; Sept. 9.
- Randolph, Robert W., Milton, assignor to The Parker Pen Company, Janesville, Wis. Writing instrument. 2,427,069; Sept. 9.
- Randolph, Robert W., Milton, assignor to The Parker Pen Company, Janesville, Wis. Writing instrument. 2,428,854; Oct. 14.
- Raney, Russell R., La Grange, Ill., assignor to International Harvester Company. Tractor-mounted pickup baler. 2,431,828; Dec. 2.
- Raney, Russell R., La Grange, and J. H. Bornzin, Chicago, Ill., assignors to International Harvester Company. Raking and loading lifting reel. 2,430,734; Nov. 11.
- Rankin, David: *See*—  
Kesler, Carl C., and Rankin.
- Ranney, Herbert H., assignor to Cone Automatic Machine Company Inc., Windsor, Vt. Releasing tap and die holder. 2,432,443; Dec. 9.
- Ransburg, Edwin M., assignee, et al.: *See*—  
Ransburg, Harold P., and Helmuth.
- Ransburg, H. Gregg, assignee, et al.: *See*—  
Ransburg, Harold P., and Helmuth.
- Ransburg, Harold P., assignor to Harper J. Ransburg Company, Indianapolis, Ind. Apparatus for spray coating articles. 2,428,991; Oct. 14.
- Ransburg, Harold P., and R. E. Helmuth, Indianapolis, Ind., assignors to H. J. H. G. H. P. and E. M. Ransburg, co-partners, doing business as Harper J. Ransburg Company. Apparatus for coating articles. 2,417,798; Mar. 18.
- Ransburg, Harper J., assignee, et al.: *See*—  
Ransburg, Harold P., and Helmuth.
- Ransburg, Harper J., Company, assignee: *See*—  
Helmuth, Richard E.  
Ransburg, Harold P.  
Starkey, William A.
- Ransley, Charles E.: *See*—  
Jones, Douglas E., Ransley, Ryde, and Williams.
- Ransley, Charles E., Sudbury, J. W. Ryde, London, W. 14, and S. V. Williams, Kenton, assignors to The General Electric Company Limited, London, England. Crystal contacts of which one element is silicon. 2,419,966; May 6.
- Ransley, Charles E., Sudbury, J. W. Ryde, London, W. 14, and S. V. Williams, Kenton, assignors to The General Electric Company Limited, London, England. Manufacture of silicon material for crystal contacts. 2,428,992; Oct. 14.
- Ransom, Frances C., University City, Mo. Bottle holder. 2,420,191; May 6.
- Ransom, Jack, Cardiff, Wales, assignor to Helliwells Limited, Stratford-on-Avon, England. Apparatus for die-shaping sheet metal. 2,422,800; June 24.
- Ransomes & Rapier Limited, assignee: *See*—  
Stokes, Antony S.
- Raper, R. S., assignee, et al.: *See*—  
Hartsfield, Frank E.
- Rapid Specialty Company, assignee: *See*—  
Weiland, Gerald H.
- Rapinwax Paper Company, assignee: *See*—  
Boggs, Jesse K., and Sullivan.
- Rapp, George M., New Haven, Conn., assignor to John B. Pierce Foundation, New York, N. Y. Prestressed all-metal roof structure. 2,427,021; Sept. 9.



- Rapp, Howard B., assignee, et al.: *See*—  
Martin, Charles H.
- Rapp, Kenneth, Merced County, Calif. Feather brooder. 2,433,578; Dec. 30.
- Rapp, Sally, assignee, et al.: *See*—  
Martin, Charles H.
- Rappl, Anton, Eggertsville, assignor to Trico Products Corporation, Buffalo, N. Y. Power-operated window unit for motor vehicles. 2,415,565; Feb. 11.
- Rappl, Anton, Eggertsville, assignor to Trico Products Corporation, Buffalo, N. Y. Window system. 2,422,984; June 24.
- Rappl, Anton, assignor to Trico Products Corporation, Buffalo, N. Y. Window operator. 2,432,799; Dec. 16.
- Rarick, Francis A.: *See*—  
Cardone, Angelo B., Gorman, and Rarick.
- Rasch, Henry, Englewood, N. J. Bandeau. 2,415,371; Feb. 4.
- Raschke, William L., Fort Worth, Tex. Helicopter with laterally disposed lift. 2,420,796; May 20.
- Rasero, Lawrence J., assignor to The Russell Manufacturing Company, Middletown, Conn. Ladder tape. Re. 22,925; Oct. 7.
- Rasero, Lawrence J., assignor to The Russell Manufacturing Company, Middletown, Conn. Ladder tape. 2,420,978; May 20.
- Rasero, Lawrence J., assignor to The Russell Manufacturing Company, Middletown, Conn. Electroconductive fabric and making the same. 2,433,239; Dec. 23.
- Raskin, Walter, Orange, N. J. Refrigerator display and storage fixture. 2,428,243; Sept. 30.
- Rasley, Donald R., Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Electron multiplier voltage supply. 2,432,681; Dec. 16.
- Rasmussen, Carl J., Berkeley, Calif. Electric engine order telegraph system. 2,422,701; June 24.
- Rasmussen, Carl J., Berkeley, Calif. Communication and repeat back system. 2,428,528; Oct. 7.
- Rasmussen, Clarence T.: *See*—  
Walz, Claude W., Rasmussen, and Clausen.  
Walz, Claude W., Rasmussen, and Griff.
- Rasmussen, Harvey W., Bloomington, Ill., assignor to Eureka Williams Corporation, Detroit, Mich. Handle lock. 2,427,622; Sept. 16.
- Rasor, John P., San Gabriel, assignor to Filtrol Corporation, Los Angeles, Calif. Method and apparatus for catalytic reactions. 2,432,934; Dec. 16.
- Raspet, August, Locust Valley, N. Y. Producing thermopiles. 2,427,508; Sept. 16.
- Raspet, August, Locust Valley, N. Y. Bubble compositions. 2,433,625; Dec. 30.
- Rassweiler, Gerald M., Ferndale, and W. S. Erwin, assignors to General Motors Corporation, Detroit, Mich. Automatic sonic measuring means. 2,431,234; Nov. 18.
- Rast, Frederick Q., Rochester, assignor to International Business Machines Corporation, New York, N. Y. Apparatus for continuously recording the path of flight of aircraft. 2,424,118; July 15.
- Rast, Frederick Q., Rochester, assignor to International Business Machines Corporation, New York, N. Y. Clock. 2,424,119; July 15.
- Rast, Frederick Q., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Article controlled gripping, printing, and severing machine. 2,427,418; Sept. 16.
- Rast, William L.: *See*—  
Retherford, Robert C., and Rast.
- Rataiczak, Francis I., assignor to General Motors Corporation, Dayton, Ohio. Breech bolt latching mechanism. 2,418,094; Mar. 25.
- Rataiczak, Francis I., assignor to General Motors Corporation, Dayton, Ohio. Sealed motor compressor unit for refrigeration apparatus. 2,420,442; May 13.
- Ratchford, Harry L., Muncie, Ind. Electric trap. 2,420,723; May 20.
- Ratcliff, Peary F., Shreveport, La. Pastry glazing machine. 2,417,614; Mar. 18.
- Ratcliffe, George L., assignor to National Lead Company, Los Angeles, Calif. Treating wells. 2,414,668; Jan. 21.
- Ratcliffe, George L., assignor to National Lead Company, Los Angeles, Calif. Detecting oil dispersed in well drilling fluids. 2,422,852; June 24.
- Rath, Karl, assignor to Radio Patents Corporation, New York, N. Y. Translation system for blocking layer photovoltaic cells. 2,416,215; Feb. 18.
- Rath, Karl, assignor to Radio Patents Corporation, New York, N. Y. Self-balancing translation system. 2,423,616; July 8.
- Rath, Karl, assignor to Radio Patents Corporation, New York, N. Y. Continuous balance motor control system. 2,423,617; July 8.
- Rath, Werner, Bad Klosterlausnitz, Germany; vested in the Attorney General of the United States. Electrical insulating body. 2,432,250; Dec. 9.
- Rathbun, Edward, assignor to The Rathbun-Jones Engineering Company, Toledo, Ohio. Device for mixing gas and air. 2,420,562; May 13.
- Rathbun, George D., assignor to Rathbun Voting Machine Co., Inc., Manhattan, Kans. Recorder. 2,431,504; Nov. 25.
- Rathbun, Harold J., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Induction motor control system. 2,420,192; May 6.
- Rathbun-Jones Engineering Company, The, assignee: *See*—  
Rathbun, Edward.
- Rathbun Voting Machine Co., Inc., assignee: *See*—  
Rathbun, George D.
- Rathman, Richard: *See*—  
Plueddemann, Edwin P., and Rathman.
- Ratié, René J., Montrouge, France; vested in the Attorney General of the United States. Variable pitch propeller control and indicator. 2,417,176; Mar. 11.
- Ratkovich, John: *See*—  
Manderscheid, James J., Ratkovich, and Kovacic.
- Ratliff, William H., Jr.: *See*—  
Johnson, Montgomery H., Ratliff, and Hansen.
- Ratti, Roger, Neu-Allschwil, near Basel, and P. Brandt, assignors to Durand & Huguenin S. A., Basel, Switzerland. Printing compositions for textiles comprising ester salts of leuco vat dyestuffs and betaines or sulfobetaines which contain an aralkyl radical. 2,431,708; Dec. 2.
- Ratti, Roger, Neu-Allschwil, near Basel, and P. Brandt, assignors to Durand & Huguenin S. A., Basel, Switzerland. Dyestuff preparations containing an ester salt of a leuco vat dyestuff, a salt of a quaternary ammonium compound, and an acid amide. 2,432,041; Dec. 2.
- Ratzer, Arthur F., assignor to The Pyrene Company Limited, Brentford, England. Fire-foam producing apparatus. 2,423,618; July 8.
- Rau, Carl W., and F. E. Swartz, Jr., St. Louis, Mo., assignors to National Lead Company, New York, N. Y. Preparation of titanium solutions. 2,416,216; Feb. 18.
- Rauch, Konrad: *See*—  
Spurlino, Pascal, and Rauch.
- Rauland Corporation, The, assignee: *See*—  
Antalek, John J.  
Glyptis, Nicholas, and Schnable.  
Kelley, Leo A.  
O'Callaghan, Jerome J., and Saville.  
Szegho, Constantin S.
- Rault, Anne-Marie A., Paris, France. Container with automatic ejecting device. 2,429,328; Oct. 21.
- Rausch, Chester C., Newtonville, Mass., assignor to Mechanical Resuscitator, Inc., New York, N. Y. Resuscitating apparatus. 2,427,419; Sept. 16.
- Rausch, William W., assignor to Anchorage Homes, Inc., Arlington, Mass. Interlocking wedge joint for securing together prefabricated building panels. 2,414,060; Jan. 7.
- Raver, Francis M., York, Pa., assignor to Flakice Corporation, Brooklyn, N. Y. Making ice in small pieces. 2,431,278; Nov. 18.
- Rawling, Francis G., Luke, Md., assignor to West Virginia Pulp and Paper Company, New York, N. Y. Suppressing foam on paper stock. 2,429,030; Oct. 14.
- Rawlings, Franklin N., Westport, Conn., assignor to The Dorr Company, New York, N. Y. Ion exchange treatment of sugar. 2,413,844; Jan. 7.
- Rawlings, Franklin N., Westport, Conn., and L. de Geofroy, New York, assignors to The Dorr Company, New York, N. Y. Ionic exchange operations. 2,413,784; Jan. 7.
- Rawlins, Albert L.: *See*—  
Burckhalter, Joseph H., Jones, Rawlins, Tendick, and Holcomb.  
Burckhalter, Joseph H., Rawlins, Tendick, Jones, and Holcomb.
- Rawlins, Herbert L., Pittsburgh, and J. M. Wallace, Brad-dock, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Multiple-circuit rheostat and control system. 2,414,556; Jan. 21.
- Rawlinson, Ray M., Walnut Park, and L. H. Philleo, Bellflower, Calif., assignors to Aluminum Company of America, Pittsburgh, Pa. Billet feeder. 2,429,525; Oct. 21.
- Rawson, Louis W., assignor to Worcester Polytechnic Institute, Worcester, Mass. Centrifugal coupling. 2,421,083; May 27.
- Rawson, Louis W., assignor to Worcester Polytechnic Institute, Worcester, Mass. Centrifugal clutch. 2,429,697; Oct. 28.
- Rawson, Ronald R.: *See*—  
Halbert, Joseph, and Rawson.
- Ray, Eugene J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Method of and machine for turning the platform covers of platform shoes. 2,429,276; Oct. 21.
- Ray, Fred B., assignor to Insley Manufacturing Corporation, Indianapolis, Ind. Hook roller mounting for rotary cranes. 2,417,567; Mar. 18.
- Ray, Frederick E., Mantua, and R. Lee, Wenonah, N. J., and J. R. Meadow, Memphis, Tenn., assignors to Socony-Vacuum Oil Company, Incorporated. Catalytic conversion of hydrocarbons. 2,430,735; Nov. 11.
- Ray, Henry, New York, N. Y. Coin holder. 2,423,467; July 8.
- Ray, William A., Los Angeles, Calif., assignor to General Controls Co. Thermoelectric generating device. 2,416,455; Feb. 25.
- Ray, William A., Los Angeles, Calif., assignor to General Controls Co. Electric motor control system. 2,421,084; May 27.
- Ray, William A., Los Angeles, Calif., assignor to General Controls Co. Electromagnetic operator. 2,422,260; June 17.



- Ray, William A., Los Angeles, Calif., assignor to General Controls Co. Engine control system. 2,423,728; July 8.
- Ray, William A., Glendale, Calif., assignor to General Controls Co. Electromagnetic reset valve. 2,422,368; June 17.
- Ray, William A., Glendale, Calif., assignor to General Controls Co. Automatic counter system. 2,425,124; Aug. 5.
- Ray, William A., Glendale, Calif., assignor to General Controls Co. Thermocouple for pilot burners. 2,430,887; Nov. 18.
- Raybestos-Manhattan, Inc., assignee: *See*—  
Batchelor, Clyde S.  
Bonawit, David J., and Zeidler.  
Joyce, William J., Jr.
- Rayburn, Ralph W., Los Angeles, Calif. Pin setting tool. 2,430,532; Nov. 11.
- Rayburn, Vincent A.: *See*—  
Frisco, William P., and Rayburn.  
Huston, Kenneth M., and Rayburn.
- Rayburn, Vincent A., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for shearing strips of plastic material. 2,429,945; Oct. 28.
- Rayburn, Vincent A., and D. C. Robson, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for shearing articles. 2,429,944; Oct. 28.
- Rayburn, Vincent A., and D. C. Robson, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Conveyor. 2,431,618; Nov. 25.
- Rayfield, George T., assignor to Eitel-McCullough, Inc., San Bruno, Calif. Cathode. 2,420,014; May 6.
- Ray-Lite Electrical Development Corporation, assignee: *See*—  
Besser, Otto R.
- Raymond Concrete Pile Company, assignee: *See*—  
Upson, Maxwell M., and Smith.
- Raymond Engineering Laboratory, Inc., assignee: *See*—  
Raymond, Horace H.
- Raymond, George G., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Detachable densitometer arm comprising combined hinging and biasing means. 2,427,922; Sept. 23.
- Raymond, Henry, Sturgeon Bay, Wis. Rope server. 2,414,169; Jan. 14.
- Raymond, Horace H., assignor to Raymond Engineering Laboratory, Inc., Berlin, Conn. Nonlinear voltage divider and making. 2,428,093; Sept. 30.
- Raymond, Louis, New York, N. Y. Arch-shaped mold for the making of custom-made prearranged acrylic teeth. 2,428,094; Sept. 30.
- Raymond, Ray, Sacramento, Calif. Excavation angle. 2,420,797; May 20.
- Raynes, John L.: *See*—  
Stevenson, Francis M., and Raynes.
- Raynolds, Reginald M., Summit, N. J. Loose-leaf binder. 2,425,205; Aug. 5.
- Rayonier Incorporated, assignee: *See*—  
Holloway, Judson H., Tabke, and Parrett.  
Schlosser, Paul H., and Gray.  
Schlosser, Paul H., Gray, and Keyser.
- Ray-O-Vac Company, assignee: *See*—  
Anthony, Herman R. C.
- Raytheon Manufacturing Company, assignee: *See*—  
Bartholomew, Robert L.  
Brown, William C.  
Dawson, John W.  
Gowell, Niles P.  
Klemperer, Hans.  
Krim, Norman B.  
Lawrence, Leslie G.  
Le Van, James D.  
Sheffield, Wilbur L.  
Smith, Charles G.  
Spencer, Percy L.  
Stiefel, Karl J.  
Stutsman, Paul W.  
Tuller, William G.  
Walker, Charles M., and Eisan.
- Razak, Charles K.: *See*—  
Hays, Russell R., and Razak.
- Razee, Rush R., Denver, Colo., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Target trap. 2,430,077; Nov. 4.
- Razek, Joseph, Llanerch, Pa., assignor, by mesne assignments, to O. W. Storey, Wheaton, Ill., as trustee for the partnership of O. W. Storey & Associates, Chicago, Ill. Electrical telemetering system. 2,417,015; Mar. 4.
- Razek, Joseph, Llanerch, Pa., assignor, by mesne assignments, to H S B Corporation. Telemetering system. 2,422,313; June 17.
- Read, Arthur, Portland, Oreg. Milk carton provided with a cream chamber and a valve for controlling an opening between the milk chamber and the cream chamber. 2,413,845; Jan. 7.
- Read, Everett C., assignor to The Filer & Stowell Co., Milwaukee, Wis. Crosshead and guide structure. 2,418,901; Apr. 15.
- Read, Everett C., assignor to The Filer & Stowell Co., Milwaukee, Wis. Stuffing box. 2,424,190; July 15.
- Read, Everett C., assignor to The Filer & Stowell Co., Milwaukee, Wis. Steam engine with keyed connection between piston rod and crosshead. 2,431,619; Nov. 25.
- Read, Philip C., assignee: *See*—  
Megal, Joseph J.
- Read, William T., executor: *See*—  
Hoerber, Harold.
- Read, William T., executor, et al.: *See*—  
Hoerber, Harold.
- Readman, Eber J.: *See*—  
Claus, Philip S., and Readman.
- Reagan, Sydney C., Sr., Arlington, Va. Bathtub headrest. 2,424,786; July 29.
- Realty Industrial Corporation, assignee: *See*—  
Anderson, Clare.
- Rearden, John J., assignor to Moore Drop Forging Company, Springfield, Mass. Apparatus and method for drawing and broaching socket wrenches. 2,430,368; Nov. 4.
- Reardon, Elizabeth J., executrix: *See*—  
Reardon, William E.
- Reardon, William E., deceased, Monroe, La., by E. J. Reardon, Monroe, La., executrix, assignor to Columbian Carbon Company, New York, N. Y. Process and apparatus for the manufacture of carbon black. 2,427,509; Sept. 16.
- Rearick, John S.: *See*—  
Passino, Herbert J.
- Reasenber, Julian R., Brooklyn, and S. D. Goldberg, Jamaica Estates, assignors to Oradent Chemical Co., Inc., New York, N. Y. Beta-isobutyl amino-beta, beta-dimethyl, ethyl benzoate. 2,421,129; May 27.
- Reason, Richard E., assignor to Taylor, Taylor & Hobson Limited, Leicester, England. Apparatus for measuring the degree of roughness of surfaces. 2,421,578; June 3.
- Reavis, Charles N., deceased, assignor of two-thirds to S. B. Coley, Raleigh, N. C.; C. L. Reavis, administratrix. Engine protective system. 2,428,095; Sept. 30.
- Reavis, Charles N., deceased, assignor of two-thirds to S. B. Coley, Raleigh, N. C.; C. L. Reavis, administratrix. Pressure operated switch. 2,428,096; Sept. 30.
- Reavis, Charlotte L., administratrix: *See*—  
Reavis, Charles N.
- Reber, Grote, Wheaton, assignor to Stewart-Warner Corporation, Chicago, Ill. High-frequency circuit. 2,423,797; July 8.
- Rebuffoni, Martin, Wilkensburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system. 2,427,744; Sept. 23.
- Rechel, Ernest R., Huntingdon Valley, Pa. Method of making incendiary bullets. 2,425,005; Aug. 5.
- Recker, Kenneth H., Winter Haven, Fla. Waxing apparatus. 2,430,187; Nov. 4.
- Reckler, Laurence L., Sparks, Nev. Earth handling implement. 2,422,985; June 24.
- Reconstruction Finance Corporation, assignee: *See*—  
Di Zoppolla, Mario.
- Reconstruction Finance Corporation, assignee, et al.: *See*—  
Graham, Warren C.  
McArthur, Warren.  
Peremi, Edmund, and Weimann.
- Rector, Anson E., Savannah, N. Y. Attachment for traps. 2,419,731; Apr. 29.
- Rector, Jacob L., Belmar, N. J., assignor to the Government of the United States of America, as represented by the Secretary of War. Making helical thread resistors. 2,416,847; Feb. 25.
- Redares, Raymond J., Los Angeles, Calif. Brassière. 2,431,829; Dec. 2.
- Redcay, Aaron K., Baton Rouge, La., assignor to Standard Oil Development Company. Distillation of crude xylidine. 2,417,886; Mar. 25.
- Redding, Arnold H.: *See*—  
Meyer, Charles A., and Redding.
- Redding, Arnold H., Swarthmore, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Compressor apparatus. 2,415,847; Feb. 18.
- Redfern, Donald V., assignor to Adhesive Products Company, Seattle, Wash. Cresylic acid-furfural synthetic resin base adhesive. 2,430,736; Nov. 11.
- Redhed, William S., Champaign, Ill. Flight recording instrument. 2,414,976; Jan. 28.
- Redheffer, Raymond M., Cambridge, Mass., assignor, by mesne assignments, to the United States of America, as represented by the Secretary of War. Device for measuring electromagnetic field intensity. 2,429,843; Oct. 28.
- Redington, F. B., Co., assignee: *See*—  
Malhot, Clarence J.
- Redlin, Alfred W., Wauwatosa, Wis. Sport robe. 2,433,626; Dec. 30.
- Redman, Horace E.: *See*—  
Fuller, Everett W., Redman, and Berger.
- Redmer, Edwin A. F., Chicago, Ill. Work feeding and holding apparatus. 2,415,037; Jan. 28.
- Redmon, Bryan C.: *See*—  
Nagy, Daniel E., and Redmon.



- Reece Corporation, The, assignee: *See*—  
Nichols, Walter E.  
Putnam, John P.
- Reece Folding Machine Company, assignee: *See*—  
Gilbert, Alfred G.  
Reece, Robert H., and Gilbert.
- Reece, Franklin A., Brookline, Mass. Pilotage rotameter. 2,416,772; Mar. 4.
- Reece, Michael, Research Foundation, assignee: *See*—  
Levinson, Sidney O., and Oppenheimer.
- Reece, Robert H., Holliston, and A. G. Gilbert, South Acton, assignors to Reece Folding Machine Company, East Cambridge, Mass. Pressing machine. 2,426,747; Sept. 2.
- Reed & Carnrick, assignee: *See*—  
Bloom, Albert, and Niederl.
- Reed, Daniel E.: *See*—  
Pratt, Verneur E., Gray, and Reed.
- Reed, Dempson H., Houston, Tex. Outside pipe cutter. 2,418,278; Apr. 1.
- Reed, Howard C., Dunkirk, N. Y., assignor to Sears, Roebuck and Co., Chicago, Ill. Sidearm circulating water heater. 2,414,557; Jan. 21.
- Reed, Isaac N., Livingston, Ala., and J. K. Mayer, assignors to Wedgeplug Valve Company, New Orleans, La. Valve actuator. 2,432,172; Dec. 9.
- Reed, Lawrence E., York, Nebr. Airplane amusement device. 2,431,421; Nov. 25.
- Reed-Prentice Corporation, assignee: *See*—  
Rougemont, René L.
- Reed Roller Bit Company, assignee: *See*—  
Crook, William M.  
Van Sittert, Paul.
- Reedy, Charles H., assignor to M. B. Reedy, Cincinnati, Ohio. Hydraulically operated elevator. 2,417,947; Mar. 25.
- Reedy, Mary B., assignee: *See*—  
Reedy, Charles H.
- Rees, Frank X., Chill, assignor to General Railway Signal Company, Rochester, N. Y. Relay with adjustable armature mounting. 2,425,562; Aug. 12.
- Rees, Hiram P., Girard, and J. Bidner, Youngstown, assignors, by mesne assignments, to The Ferro Engineering Company, Cleveland, Ohio. Hot top. 2,426,748; Sept. 2.
- Reese, John D., Philadelphia, Pa. Dermatone attachment. 2,424,584; July 29.
- Reese, John E., assignor to Hercules Powder Company, Wilmington, Del. Producing menthenetriol. 2,423,851; July 15.
- Reese, Thomas S., University Heights, assignor to The Di-Noc Manufacturing Company, Cleveland, Ohio. Ornamentation of rubber. 2,416,844; Mar. 4.
- Reeves, Alec H., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Determining distance by electromagnetic waves. 2,431,344; Nov. 25.
- Reeves, Arthur E., Los Angeles, Calif. Camera view finder. 2,417,125; Mar. 11.
- Reeves, Delmar F., assignee: *See*—  
Hall, Mark M.
- Reeves, Donald H., assignor to General Motors Corporation, Dayton, Ohio. Extensible ice tray grid. 2,416,119; Feb. 18.
- Reeves, Edward D.: *See*—  
Fulton, Stewart C., Tongberg, and Reeves.
- Reeves, Edward D., Cranford, N. J., assignor to Standard Oil Development Company. Conversion of hydrocarbon oils. 2,421,651; June 3.
- Reeves, Edward D., and J. C. Munday, Cranford, N. J., assignors to Standard Oil Development Company. Catalytic conversion of hydrocarbon oils. 2,416,217; Feb. 18.
- Reeves-Ely Laboratories, Inc., assignee: *See*—  
Primus, Irving S.  
Speed, William C.
- Reeves, Herbert M., Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass. Stop device for oven doors. 2,417,521; Mar. 18.
- Reeves, Herbert M., Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass. Operating knob and escutcheon plate assembly. 2,420,979; May 20.
- Reeves, Herbert M., Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass. Cooking top for gas cook stoves. 2,430,079; Nov. 4.
- Reeves, Herbert M., Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass. Cabinet comprising drawer supporting and guiding structure. 2,430,141; Nov. 4.
- Reeves, Herbert M., Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass. Stove. 2,433,785; Dec. 30.
- Reeves, Herbert M., and L. F. Vixler, Kankakee, Ill., assignors to Florence Stove Company, Gardner, Mass. Oil burner. 2,422,209; June 17.
- Reeves Hoffman Corporation, assignee: *See*—  
Morse, Louis R.
- Reeves, Howard F., Jr.: *See*—  
Comstock, Rock L., and Reeves.
- Reeves, Howard F., Jr., assignor to Wyandotte Chemicals Corporation, Wyandotte, Mich. Alkyl-substituted aromatic sulfonates. 2,422,926; June 24.
- Reeves, James B., Whitefish Bay, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Frequency responsive control system. 2,425,047; Aug. 5.
- Reeves, James B., Whitefish Bay, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electric motor torque controller. 2,428,723; Oct. 7.
- Reeves, James B., Whitefish Bay, and E. W. Seeger, Wauwatosa, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Group control of plural alternating current motors. 2,418,806; Apr. 8.
- Reeves Pulley Company, assignee: *See*—  
Troemel, Walter H.
- Reeves, William B.: *See*—  
Groebe, John L., Reeves, and Campbell.
- Refining Unincorporated, assignee: *See*—  
Clayton, Benjamin.  
Thurman, Benjamin H.
- Regad, Eugene D., and A. C. Cohen, Jr., Dover, N. J. Primer. 2,430,888; Nov. 18.
- Regenbrecht, Albert: *See*—  
Bradley, John J., and Regenbrecht.
- Regensteiner, Berthold and M., Chicago, Ill. Clock controlled mechanism. 2,414,835; Jan. 28.
- Regensteiner, Max: *See*—  
Regensteiner, Bertold and M.
- Regents of the University of Michigan, The, assignee: *See*—  
Blicke, Frederick F.
- Regents of the University of Minnesota, assignee: *See*—  
Adams, Joseph.  
Akerman, John D., and Piccard.  
Gisvold, Ole.  
Smith, Lee I., and Rouault.  
Smith, Lee I., and Sprung.  
Smith, Lee I., and Ungnade.
- Reger, Raymond, assignor to Pierce Governor Company, Anderson, Ind. Velocity governor. 2,424,503; July 22.
- Regitko, Martin: *See*—  
Gregorie, Eugene T., and Regitko.
- Regna, Peter P.: *See*—  
Pasternack, Richard, and Regna.
- Rehberg, Chessie E., Glenside, and C. H. Fisher, Abington, Pa., assignors to United States of America as represented by the Secretary of Agriculture. Production of acrylic acid. 2,413,889; Jan. 7.
- Reher, Frederick W.: *See*—  
Dempsey, Michael J., and Reher.
- Rehm, Gustav A.: *See*—  
Andrews, L. V., and Rehm.
- Rehm, Gustav A., assignor to Riley Stoker Corporation, Worcester, Mass. Air feeding furnace front structure. 2,431,422; Nov. 25.
- Rehm, Wilhelm: *See*—  
Reiner, August, and Rehm.
- Rehner, John, Jr., Westfield, N. J., and P. J. Flory, Cuyahoga Falls, Ohio, assignors to Standard Oil Development Company. Plasticizing polyisobutylene utilizing benzoyl peroxide. 2,430,993; Nov. 18.
- Reiber, Eugene D., Manor, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control switch. 2,426,051; Aug. 19.
- Reibig, Eric A.: *See*—  
Wiken, Christy A., and Reibig.
- Reich, Ernest, Stamford, Conn. Heating device. 2,430,582; Nov. 11.
- Reich, George A., Cleveland, Ohio. Roller skate. 2,430,533; Nov. 11.
- Reich, Gustave T., Philadelphia, Pa. Brewing. 2,414,669; Jan. 21.
- Reich, Gustave T., Philadelphia, Pa. Dehydration of foodstuffs with carbon dioxide. 2,427,302; Sept. 9.
- Reich, Harold A., New York, N. Y. Convertible fur scarf. 2,419,368; Apr. 22.
- Reich, Marion L. K., Pittsburgh, Pa. Head shield. 2,419,284; Apr. 22.
- Reich, Robert A.: *See*—  
Whelan, Roderick J., and Reich.
- Reichart, James H., Muncie, Ind. Oppositely swingable light structure. 2,414,485; Jan. 21.
- Reichel, Frank H., and R. T. K. Cornwell, Fredericksburg, Va., assignors, by mesne assignments, to American Viscose Corporation, Wilmington, Del. Denitrating nitrocellulose articles. 2,421,391; June 3.
- Reichel, Maximilian K.: *See*—  
Von Glahn, William H., and Reichel.
- Reichel, Maximilian K., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Stabilized diazotype photoprinting. 2,416,773; Mar. 4.
- Reichel, Vladimir A.: *See*—  
Bechberger, Paul F., and Reichel.
- Reichelderfer, Wilton F., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Heat exchanger. 2,428,993; Oct. 14.
- Reichert, Joseph S., and A. T. Hawkinson, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Stabilization of peroxide solutions. 2,426,154; Aug. 19.
- Reichert, William F.: *See*—  
Clark, Alvah D., and Reichert.
- Reichhelm, George L., assignor to The Oil-Gas Combustion Company, New Haven, Conn. Gasifier and burner. 2,414,329; Jan. 14.
- Reichhold Chemicals, Inc., assignee: *See*—  
Braidwood, Clinton A., and Hovey.  
Hewett, Philip S.
- Reichold, Ludwig, Winsted, assignor to The Silex Company, Hartford, Conn. Seal breaker for coffee makers. 2,413,890; Jan. 7.



- Reichold, Ludwig, Winsted, assignor to The Sillex Company, Hartford, Conn. Heating element and making same. 2,432,800; Dec. 16.
- Reichstein, Tadeus, Basel, Switzerland.  $\alpha$ -substituted side-chain ketones of the cyclopentanopolyhydrophenanthrene series and making same. Re. 22,941; Nov. 25.
- Reichstein, Tadeus, Basel, Switzerland, assignor to the firm of Roche Organon, Inc., Nutley, N. J. 3-keto-20,21-dihydroxy saturated pregnane compounds. 2,423,517; July 8.
- Reid Brothers Company, Inc., assignee: See—Woodbury, Stephen E.
- Reid, Frederick M., assignor to Fruehauf Trailer Company, Detroit, Mich. Vehicle body. 2,433,158; Dec. 23.
- Reid, George H., Kirby Muxloe, near Leicester, and L. G. H. Cantle, St. Marks Hill, Surbiton, assignors to Reid and Sigrist Limited, Kirby Muxloe, near Leicester, England. Optical projection apparatus. 2,414,977; Jan. 28.
- Reid, James A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Alkali metals in low temperature, Fridel-Crafts catalyzed isooctin polymerization process. 2,427,303; Sept. 9.
- Reid, James H., assignee, et al.: See—Fisk, Edwin M.
- Reid, Joseph H., Los Angeles, Calif. Timing device. 2,421,130; May 27.
- Reid, Laurance S., Oklahoma City, Okla. Recovering desirable petroleum hydrocarbon fractions at substantially wellhead pressure. 2,423,156; July 1.
- Reid Manufacturing Company, assignee: See—Fisk, Edwin M.
- Reid, Robert J.: See—Albert, Harry E., and Reid.
- Reid, Rose M., Boise, Idaho. Garment. 2,418,987; Apr. 15.
- Reid, Rose M., Boise, Idaho. Bathing suit. 2,431,505; Nov. 25.
- Reid and Sigrist Limited, assignee: See—Reid, George H., and Cantle.
- Reider, Robert W., Schuylkill Haven, Pa. Seamed mocasin type shoe vamp. 2,431,506; Nov. 25.
- Reifel, Harry, Waltham, and E. L. Crandell, Marshfield Hills, assignors to Stevens-Arnold Company, Incorporated, Boston, Mass. Automatic means for controlling the power fed to an oscillator load. 2,415,799; Feb. 11.
- Reiff, Orland M., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Plastic reaction products of reactive methylene compounds with wax-substituted aromatic compounds. 2,416,218; Feb. 18.
- Reiff, Orland M., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Plastic reaction products of sulfur mono-chloride with wax-substituted aromatic compounds. 2,416,219; Feb. 18.
- Reiff, Orland M., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Reaction products of hexamethylenetetramine and petroleum wax substituted oxyaromatic compounds having rubberlike properties and method of preparing same. 2,429,565; Oct. 21.
- Reiff, Orland M., Woodbury, H. D. Hartough, Pitman, and H. J. Andress, Jr., Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Synthetic lubricant. 2,424,956; July 29.
- Reik, Richard, Piedmont, and A. C. Byrns, Los Altos, assignors to The Permanente Metals Corporation, Oakland, Calif. Making finely divided volatilized silica. 2,428,178; Sept. 30.
- Reikie, Matthew K. T.: See—Lowe, Sherwin P., Reikie, Kent, and Long.
- Reilich, Gustave E., Ridgewood, N. Y. Rotary vane type pump. 2,417,568; Mar. 18.
- Reilly, Arlington A., Brooklyn, N. Y. Magnetic nail puller. 2,432,338; Dec. 9.
- Reilly, Edward V.: See—Shields, James E., and Reilly.
- Reilly, Jack E., Wilkesburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical motor control system. 2,428,583; Oct. 7.
- Reilly, Michael F., Milwaukee, Wis. Steam engine valve gear of the combination or Walschaert type. 2,427,810; Sept. 23.
- Reilly, Robert D., Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Electron multiplier. 2,431,507; Nov. 25.
- Reilly Tar & Chemical Corporation, assignee: See—Cislak, Francis E., and Carney.
- Cislak, Francis E., and Otto.
- Cislak, Francis E., and Wheeler.
- Reilly, William J., Taunton, Mass. Handbag of plastic. 2,429,962; Oct. 28.
- Reiman, Clarence K.: See—Welling, Charles H., and Reiman.
- Reiman, Walter C.: See—Hockman, Robert O., and Reiman.
- Reimer, Frank H.: See—Gochler, Michael, Reimer, and Davis.
- Reimer, John J.: See—Gröger, Herbert H., and Reimer.
- Reimuller, Paul E., Chicago, Ill. Power transmission mechanism. 2,417,948; Mar. 25.
- Reina, Joseph A., Brooklyn, N. Y. Iron stand. 2,431,508; Nov. 25.
- Reindel, Ira H.: See—Buchanan, John C., and Reindel.
- Reineck, Edward, and I. R. Dunlap, assignors, to The Institute of Paper Chemistry, Appleton, Wis. Thermo-setting plastic from redwood pulp and furfuryl alcohol-formaldehyde resin. 2,429,329; Oct. 21.
- Reinecke, Ezra P.: See—Turner, Charles W., and Reinecke.
- Reiner, August, Dresden, and W. Rehm, Berlin, Germany; vested in the Attorney General of the United States. Device for enveloping and sealing flat articles, for example letters. 2,421,964; June 10.
- Reiner, Leo A., Detroit, Mich. Scaffold caster. 2,421,464; June 3.
- Reiner, Otto, Rheinhausen-Nrh.-Hochemmerich, Germany; vested in the Attorney General of the United States. Reversing apparatus for furnaces. 2,416,953; Mar. 4.
- Reiner, Robert, Incorporated, assignee: See—Lambach, Fritz.
- Reinert, Herbert A., Tulsa, Okla. Load pickup hand truck. 2,415,655; Feb. 11.
- Reinhardt, Archibald E.: See—King, John M., Young, Reinhard, and Schultze.
- Reinhardt, Henry A., Longmeadow, Mass., assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Punched felt floor covering and making the same. 2,429,486; Oct. 21.
- Reinhold, Leonard F., Staten Island, N. Y., assignor to Radio Corporation of America. Counter reset device. 2,429,136; Oct. 14.
- Reininger, Carl A., Chicago, Ill., assignor, by mesne assignments, to Helene Curtis Industries, Inc. Curling rod. 2,421,287; May 27.
- Reinsch, Earl W., D. W. DeBra, and T. W. Kunz, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Porous metallic filter element. 2,430,078; No. 4.
- Reinsch, Erich E., Chicago, Ill. Live center tool. 2,426,566; Aug. 26.
- Reis, Joseph J., Jr.: See—McCaleb, John D., and Reis.
- Reischl, Karl E., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Leveling device for cable-tool drills. 2,422,210; June 17.
- Reise, William, Ottawa, Canada. Tongs. 2,420,980; May 20.
- Reiser, Alfred A., assignor, by mesne assignments, to Titan Manufacturing Co., Inc., Buffalo, N. Y. Electrical contact heater. 2,418,557; Apr. 8.
- Reiser, Alfred A., assignor, by mesne assignments, to Titan Manufacturing Co., Inc., Buffalo, N. Y. Electric heater. 2,419,655; Apr. 29.
- Reisert, August D.: See—Dorsey, Sherman H., Reisert, Fox, and Mueller.
- Reising, Elden P., assignee: See—Small, Frank S.
- Reising, Eugene G., Hartford, Conn. Bolt stop for firearms. 2,422,853; June 24.
- Reising, Eugene G., Hartford, Conn. Disconnector for firearms. 2,422,854; June 24.
- Reisinger, Frederick F.: See—Chester, Allan E., and Reisinger.
- Reiss, August, London, England. Cleaning flues or the like which conduct producer gas. 2,423,157; July 1.
- Reistle, Carl E., and G. E. Cannon, Houston, Tex., assignors to Standard Oil Development Company. Cementing wells. 2,421,434; June 3.
- Reitan, John A., assignor to Met-Elec Corporation, Minneapolis, Minn. Soldering iron. 2,424,848; July 29.
- Reiter, Alfred A., and F. L. Beman, assignors to Cliffs Dow Chemical Company, Marquette, Mich. Separation of products from wood distillate by fractional distillation. 2,416,270; Feb. 18.
- Reiter, Alfred A., and F. L. Beman, assignors to Cliffs Dow Chemical Company, Marquette, Mich. Distillation of 2-acetoxy butanol from wood distillate. 2,428,760; Oct. 7.
- Reiter, Alfred A., and F. L. Beman, assignors to Cliffs Dow Chemical Company, Marquette, Mich. Production of useful chemicals from crude formic acid distillate. 2,433,323; Dec. 23.
- Reiter, David, Woodside, Long Island, N. Y. Dental instrument. 2,418,316; Apr. 1.
- Reiter, David, Woodside, Long Island, N. Y. Surgical instrument with mallet action. 2,421,354; May 27.
- Reiter, Freeman A.: See—Buell, James A., and Reiter.
- Reitlinger, Otto, New York, N. Y. Preparation of polychlorinated saturated aliphatic hydrocarbons. 2,429,963; Oct. 28.
- Reitman, Morris R., Chicago, Ill. Dispensing package. 2,418,526; Apr. 8.
- Reiwald, Gustav G., San Antonio, Tex. Lift wire guide for water closet flush valves. 2,425,163; Aug. 5.
- Reliable Products Manufacturing Co., Inc., assignee: See—Arvintz, Abraham A., Arvins, and Arvintz.
- Reliable Sheet Metal Engineering Co., assignee: See—Casey, Charles L., and Ryno.
- Reliance Hydraulic Press, Inc., assignee: See—May, Thomas L.
- Reliance Steel Products Company, assignee: See—Bulmer, William C.



- Relson, Morris: *See*—  
Hansen, William W., and Relson.  
Varian, Russell H., and Relson.
- Rembert, Ernest W., Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Manufacture of cementitious pipe. 2,430,411; Nov. 4.
- Rembold, Albert T., San Francisco, Calif. Card for sequence sorting. 2,424,053; July 15.
- Remco Electronic, Inc., assignee: *See*—  
Shepard, Francis H., Jr.
- Remde, Jack, Chicago, Ill., assignor to Ray L. Triplett, Bluffton, Ohio. Vacuum tube bridge voltmeter. 2,425,641; Aug. 12.
- Remesch, John, Cleveland, H. Eyring, North Olmstead, and P. Moyer, assignors, by mesne assignments, to Schuler Co., Cleveland, Ohio. Child's vehicle. 2,426,642; Sept. 2.
- Remick, Walter L., Evanston, Ill. Hydraulic separation of solids. 2,417,660; Mar. 18.
- Remington Arms Company, Inc., assignee: *See*—  
Andresen, Garwood C., and Rockey.  
Barnes, Charles H.  
Burdett, Philip H., and Hodgson.  
Cook, Judson A.  
Darby, Paul F.  
Dupont, Francis G.  
Eckstein, George R.  
Edson, Noel M., and Hoback.  
Etem, Theodore G.  
Hutchinson, Gilbert E.  
Hutchinson, Gilbert E., and Johnson.  
Loomis, Crawford C.  
Loomis, Oliver H.  
Lowe, Paul E., and Ross.  
Maughan, Matthew W.  
McNally, Dana R.  
Melick, George R.  
O'Neal, Wilbert O.  
Razee, Rush R.  
Reynolds, Warren S.  
Rutherford, Peter B., and Luster.  
Scoville, Henry F., and Clay.  
Snook, Samuel I., Naveken, and Kehoe.
- Remington, Frederic, Elizabeth, and R. A. Tartaglia, East Orange, assignors to Peerless Tube Company, Bloomfield, N. J. Coating machine for collapsible tubes. 2,420,620; May 13.
- Remington, Frederic, Elizabeth, and R. A. Tartaglia, East Orange, assignors to Peerless Tube Company, Bloomfield, N. J. Machine for applying necks to collapsible tubes. 2,431,279; Nov. 18.
- Remington Rand Inc., assignee: *See*—  
Braun, Edward.  
Galella, Pasquale F., and Brustman.  
Haskins, Bradley.  
Kelley, Walter F., and Roggenstein.  
Lamb, James J.  
Mueller, John.  
Ritzert, Robert W.  
Tolmie, Edgar S.  
Upham, Harry E.  
Wolters, Carl F.  
Woodgate, Percy W.
- Remmer, Herbert S., Oakland, assignor to Ted Nelson, San Leandro, Calif. Stud welding gun. 2,416,954; Mar. 4.
- Rempel, Dietrich G., Akron, Ohio. Method and apparatus for forming hollow objects. 2,420,443; May 13.
- Remy, Walter W., Angola, Ind. Stall warning device. 2,424,946; July 29.
- Rendel, George H.: *See*—  
Holman, Robert W., Myers, and Rendel.
- Rendel, George H., Gary, Ind., assignor to Carnegie-Illinois Steel Corporation. Uniformly electric resistance heating continuously moving metal strip. 2,432,801; Dec. 16.
- Rendel, George H., Gary, Ind., assignor to Carnegie-Illinois Steel Corporation. Apparatus for handling metallic strip. 2,433,014; Dec. 23.
- Rendich, Richard A., Georgetown, Conn. X-ray marker. 2,433,480; Dec. 30.
- Renfrew, Samuel M.: *See*—  
Kuffer, Roland I.  
Kuffer, Roland I., and Renfrew.
- Renier, William S., Milwaukee, Wis. Plastic molding machine. 2,416,348; Feb. 25.
- Renier, William S., Milwaukee, Wis. Molding machines for plastics and other moldable materials. 2,416,349; Feb. 25.
- Renkes, John D., Clinton, Iowa, assignor to Volkman Furniture Manufacturing Company, Morrison, Ill. Reclining chair. 2,423,816; July 8.
- Renner, Henry M., Cedartown, Ga. Rocket shell. 2,426,239; Aug. 26.
- Rennerfelt, Ivar, and B. M. S. Kalling, Djursholm, Sweden. Producing alloys low in carbon. 2,429,648; Oct. 28.
- Rennie, William H., Vancouver, British Columbia, Canada. Fish scrubbing machine. 2,416,594; Feb. 25.
- Reno, Michael W., and J. E. Dougherty, Philadelphia, Pa. Hollow wound package holder for dyeing apparatus. 2,431,280; Nov. 18.
- Renoll, Mary W., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Trifluoromethyl derivatives of vinyl aromatic compounds. 2,414,330; Jan. 14.
- Renouf, Ralph R., Los Angeles, and F. E. Mason, South Gate, assignors to Emco Derrick & Equipment Company, Los Angeles, Calif. Oil well pump. 2,420,151; May 6.
- Renton, Henry N., Akron, assignor to Weather-Seal, Inc., Barberton, Ohio. Adjustable jig. 2,415,259; Feb. 4.
- Rentschler, Mahlon J., Willoughby, Ohio, assignor to A. Pavlik, Pittsburgh, Pa. Strontium peroxide and making the same. 2,415,443; Feb. 11.
- Renz, Emil K., Dedham, assignor to Knight Leather Products Co., Inc., Boston, Mass. Toilet case. 2,419,165; Apr. 15.
- Reppe, Walter, C. Shuster, and E. Weiss, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to General Aniline & Film Corporation, New York, N. Y. Producing pyrroles and hydrogenated pyrroles. 2,421,650; June 3.
- Republic Aviation Corporation, assignee: *See*—  
Bohannon, William A.  
Franklin, Hubert F.  
Johnson, Seth.
- Republic Flow Meters Company, assignee: *See*—  
Drescher, Rowland B., and Wenzel.  
Rosenberger, Albert J.  
Smoot, Charles H.  
Wenzel, Alfred C.
- Republic Steel Corporation, assignee: *See*—  
Darner, Frederic M.  
Eckman, Meril L.  
Farrow, Cecil.  
Fleche, Jean R.  
Hyland, James L.  
Jancsek, Frank H., and Larson.  
Kopec, Walter.  
Schaefer, Walter S.  
Schultheis, Frank J.  
Schwartz, Elmer A.
- Resch, Stewart H., Temple, Pa. Telescope mount. 2,424,708; July 29.
- Research Corporation, assignee: *See*—  
Barrow, Wilmer L.  
Fieser, Louis F.  
Kendall, Edward C.  
Marton, Ladislaus.  
Milas, Nicholas A.  
Overbeck, Wilcox P.  
Raines, Morris A.  
Schmitz, Frederick W.  
Sloan, David H.  
Williams, Roger J.
- Resek, Marc, Cleveland Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Liquid fuel burning apparatus. 2,416,546; Feb. 25.
- Reserve Mining Company, assignee: *See*—  
Martin, Henry K.
- Resinous Products & Chemical Company, The, assignee: *See*—  
Bruson, Herman A.  
Bruson, Herman A., and Niederhauser.  
Bruson, Herman A., Niederhauser, and Iserson.
- Resistance Welder Corporation, assignee: *See*—  
Nichols, Leonard E.
- Resistoflex Corporation, assignee: *See*—  
Dangelmajer, Charles.  
Porter, Charles A., and Fershko.
- Ress, Thomas I., assignor to De Vry Corporation, Chicago, Ill. Intermittent mechanism. 2,420,444; May 13.
- Ressinger, Paul M., Chicago, Ill. Gocart. 2,419,656; Apr. 29.
- Ressinger, Paul M., Chicago, Ill. Swing for children and the like. 2,431,138; Nov. 18.
- Ressler, Hugh C.: *See*—  
Hogan, John V. L., and Ressler.
- Ressler, William H., assignee: *See*—  
Heitzman, Richard J.
- Restarski, Joseph S., and A. P. Black, U. S. Navy. Refrigeration apparatus for inducing local anesthesia. 2,429,238; Oct. 21.
- Retallack, John B., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Hydrophone selecting system. 2,414,123; Jan. 14.
- Retallack, John B., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Hydrophone selecting system. 2,423,119; July 1.
- Retherford, Robert C., Belleville, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Magnetron. 2,433,481; Dec. 30.
- Retherford, Robert C., Belleville, and W. L. Rast, Glen Ridge, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Magnetron. 2,431,139; Nov. 18.
- Rettinger, Michael, Encino, Calif., assignor to Radio Corporation of America. Frequency modulation light beam transmission. 2,423,254; July 1.
- Rettinger, Michael, Encino, Calif., assignor to Radio Corporation of America. Reverberation method and system. 2,431,962; Dec. 2.
- Retzsch, Clinton E., Arlington, and C. H. Lightpipe, Bloomfield, assignors to Nopco Chemical Company, Harrison, N. J. Metallic soap dispersions. 2,425,828; Aug. 19.



- Reuter, Louis F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanization of vinyl resin. 2,427,070; Sept. 9.
- Reuter, Louis F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanization of vinyl resins. 2,427,071; Sept. 9.
- Reuter, René L. E.: *See*—  
Spender, Sidney I., and Reuter.
- Reutner, Emil A., St. Louis, Mo. Bottle carrier. 2,426,750; Sept. 2.
- Revere Camera Company, assignee: *See*—  
Briskin, Theodore S., and Golick.
- Revere Copper and Brass Incorporated, assignee: *See*—  
Goulding, Joseph M.  
Poland, Frank F.
- Rex-O-Graph, Inc., assignee: *See*—  
Rockhill, Roscoe R.
- Reyburn Manufacturing Company, Incorporated, The, assignee: *See*—  
Schmutzler, Robert C.
- Reynolds, Alger P., North Beverly, assignor to Spaulding-Moss Company, Boston, Mass. Apparatus for printing on light-sensitive material. 2,427,923; Sept. 23.
- Reynolds, Charles E., Alexandria, Va. Power line tapping clamp. 2,423,660; July 8.
- Reynolds, Charles L., assignee, et al.: *See*—  
Wildman, Benjamin H.
- Reynolds, Ed.: *See*—  
Shugart, Hardie L.
- Reynolds, Edward F., Flint, assignor to General Motors Corporation, Detroit, Mich. Fender shield. 2,427,160; Sept. 9.
- Reynolds, Edward F., Flint, assignor to General Motors Corporation, Detroit, Mich. Storage rack for ammunition. 2,432,802; Dec. 16.
- Reynolds, Frank D.: *See*—  
Norin, Allan A., and Reynolds.
- Reynolds, Frank D., assignor to Gaylord Products, Incorporated, Chicago, Ill. Bob pin. 2,414,124; Jan. 14.
- Reynolds, Frank D., assignor to Gaylord Products, Incorporated, Chicago, Ill. Apparatus for delivering and grouping hair fasteners. 2,432,339; Dec. 9.
- Reynolds, Frank P., assignor to Bird & Son, Inc., East Walpole, Mass. Manufacture of artificially colored granules. 2,422,927; June 24.
- Reynolds, Frederick W., Ridgewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Stereotelevision and television range finding. 2,417,446; Mar. 18.
- Reynolds, James H., Indianapolis, Ind., assignor to Radio Corporation of America. Photo electric relay. 2,416,595; Feb. 25.
- Reynolds, James H., Indianapolis, Ind., assignor to Radio Corporation of America. Coating lenses. 2,430,994; Nov. 18.
- Reynolds, John J., East Orange, N. J. Nipple chuck. 2,416,220; Feb. 18.
- Reynolds, John P., Albuquerque, N. Mex. Hotbox signal. 2,422,211; June 17.
- Reynolds, Julian L., Richmond, Va. Pneumatic tire. 2,423,995; July 15.
- Reynolds Metals Co., assignee: *See*—  
Burnett, John W.
- Reynolds Metals Company, assignee: *See*—  
Babcock, Gordon M.  
Kemmer, Frank R.  
Strobl, John A.
- Reynolds, Milton, assignee: *See*—  
Huennergard, William H.  
Pfaelzer, Melvin A.
- Reynolds, Milton, and H. G. Barrett, assignor to Printa-sign Corporation of America, Chicago, Ill. Printing apparatus. 2,414,895; Jan. 28.
- Reynolds, Paul G., assignee: *See*—  
Manley, Albert M.
- Reynolds, Peter W., A. W. C. Taylor, and J. G. M. Bremner, Norton-on-tees, England, assignors to Imperial Industries Limited. Catalyst and process for dehydrogenation of hydrocarbons. 2,420,563; May 13.
- Reynolds, Reginald J. W.: *See*—  
Cook, James G., Harper, Reynolds, and Smith.  
Habgood, Bernard J., Harper, and Reynolds.
- Reynolds, Reginald R., Toronto, Ontario, Canada. Estimating instrument. 2,429,277; Oct. 21.
- Reynolds, Richard S., Richmond, Va. Apparatus for mounting thin metallic foil on carrying webs. 2,428,385; Oct. 7.
- Reynolds, Warren S., Stratford, assignor to Remington Arms Company, Inc., Bridgeport, Conn. Machine for testing and assorting articles according to electrical characteristics. 2,430,080; Nov. 4.
- Reynolds, William J.: *See*—  
Hartley, George C., and Reynolds.
- Reynolds Wire Co., assignee: *See*—  
Loos, Robert J.
- Rhea, Henry E., Collingswood, N. J., assignor to Radio Corporation of America. Cathode ray indicator. 2,415,566; Feb. 11.
- Rhea, Henry E., Collingswood, N. J., assignor to Radio Corporation of America. Cathode ray tube direction finder. 2,423,518; July 8.
- Rhea, Henry E., Collingswood, N. J., and F. P. Wipff, Dallas, Tex., assignors to Radio Corporation of America. Reflected wave direction finder. 2,423,519; July 8.
- Rhea, Henry E., Collingswood, N. J., assignor to Radio Corporation of America. Reflected wave direction finder. 2,423,661; July 8.
- Rhea, Henry E., Collingswood, N. J., assignor to Radio Corporation of America. Radar direction indicator. 2,432,173; Dec. 9.
- Rheem Manufacturing Company, assignee: *See*—  
Brown, Horace C.  
Hamilton, Arthur L., and Palmer.
- Rhein, Louis J.: *See*—  
Summerbell, William, Rhein, and Hoopes.
- Rhein, Louis J., Aberdeen, Md. Fuse. 2,419,967; May 6.
- Rheinbeck, Alfred E., and S. E. Crecelius, Louisville, Ky., assignors to Devoe & Reynolds Company, Inc. Esterifying a catalytically dehydrated and heat-bodied castor oil. 2,415,969; Feb. 18.
- Rheinfrank, George B., Jr., Perrysburg, Ohio. Structural material for aircraft. 2,414,125; Jan. 14.
- Rheinstrom, Robert L., New York, N. Y., assignor to Hiestra Laboratories, Inc. Combination bottle and booklet package. 2,422,314; June 17.
- Rheubottom, Willard C., Norfolk, Va., assignor to American Telephone and Telegraph Company. Electrical testing system. 2,414,609; Jan. 21.
- Rhicard, Percy E., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Bomb nose fuse. 2,414,558; Jan. 21.
- Rhoades, Donald A., Palo Alto, assignor to The Permanente Metals Corporation, Oakland, Calif. Cooling gaseous media by interchange of heat with cooling gases. 2,433,397; Dec. 30.
- Rhodenbaugh, Alvin J., Harmon, Ill. Combination rotary soil shield and cultivator. 2,431,963; Dec. 2.
- Rhodes, Fred H., and O. J. Swenson, Ithaca, N. Y. Sugar cane wax extraction. 2,428,813; Oct. 14.
- Rhodes, James H., & Company, assignee: *See*—  
England, Leonard H.
- Rhodes, Kermit H., Bridgewater, Va., assignor of one-half to V. L. R. Surman, West Hazelton, Pa. Purse or handbag with removable lining and transparent cover. 2,428,682; Oct. 7.
- Rhodes, Lane, assignee, et al.: *See*—  
Christiansen, Frederick A.
- Rhodes, Lane, and M. Smith, Santa Monica, Calif. Carrier for bottles or the like. 2,415,218; Feb. 4.
- Rhodes, Lynn A., Camden, Ark. Inkstand and pen rack. 2,419,285; Apr. 22.
- Rhodes, M. H., Inc., assignee: *See*—  
Rhodes, Marcus H.  
Van Valkenburgh, Merritt.
- Rhodes, Marcus H., assignor to M. H. Rhodes, Inc., Hartford, Conn. Timing device. 2,430,583; Nov. 11.
- Rhodes, Philip H., Portland, Maine, assignor to Pennsylvania Coal Products Company, Petrolia, Pa. Bonding materials with a cold-setting dihydroxy benzene aldehyde adhesive. 2,414,414; Jan. 14.
- Rhodes, Philip H., Portland, Maine, assignor, by mesne assignments, to Koppers Company, Inc. Production of adhesive carrier film and utilization thereof. 2,429,369; Oct. 21.
- Rhodes, Philip H., Portland, Maine, assignor, by mesne assignments, to Koppers Company, Inc. Resorcinol-aldehyde combined with aromatic amine-aldehyde resin. 2,432,544; Dec. 16.
- Rhodes, Philip H., Butler, assignor to Pennsylvania Coal Products Company, Petrolia, Pa. Production and utilization of cold setting polyhydric phenolic aldehyde resin adhesives. 2,414,415; Jan. 14.
- Rhodes, Philip H., Butler, assignor to Pennsylvania Coal Products Company, Petrolia, Pa. Setting phenol-aldehyde resins and products derived therefrom. 2,414,416; Jan. 14.
- Rhodes, Russell I., North Attleboro, assignor to The Mason Box Company, Attleboro Falls, Mass. Frame of sheet material. 2,427,420; Sept. 16.
- Rhodes, Thomas J., Ramsey, N. J., assignor to United States Rubber Company, New York, N. Y. Apparatus for making coiled yarn. 2,432,935; Dec. 16.
- Rhodes, William, Limited, assignee: *See*—  
Binch, Arthur H.
- Riat, Henri: *See*—  
Felix, Friedrich, and Riat.
- Riblet, Robert M., assignor to The Timken Roller Bearing Company, Canton, Ohio. Double row roller bearing and cup spacer therefor. 2,418,095; Mar. 25.
- Riblet, Royal N., Spokane, Wash. Wheel. 2,418,481; Apr. 8.
- Riboud, Jacques M. J., Mount Washington, Md., assignor to Specialty Equipment and Machinery Corp., New York, N. Y. Mobile gun mount. 2,425,563; Aug. 12.
- Ricards, Charles L.: *See*—  
Roesen, Oscar C., and Ricards.  
Tornberg, Isidor, and Ricards.
- Rice & Adams Corporation, assignee: *See*—  
Alling, E. Roy, and Trebler.  
Carkhuff, Floyd B.
- Rice Barton Corporation, assignee: *See*—  
Clem, Everett W.  
Stafford, Stephen B.
- Rice, Dell E., assignor to Bendix Aviation Corporation, South Bend, Ind. Sealing means for universal joints. 2,432,803; Dec. 16.



- Rice, Francis O., Washington, D. C. Cracking of olefins. 2,429,566; Oct. 21.
- Rice, Henry T. M., San Marino, Calif. Method of and apparatus for press forging wrench sockets and the like. 2,417,569; Mar. 18.
- Rice, Lyman A.: *See*—  
Rady, William J., and Rice.
- Rice, Ralph E.: *See*—  
Davis, Oran L., and Rice.
- Rice, Richard M., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Depositing films of material. 2,420,724; May 20.
- Rich, Hyman R., Milwaukee, Wis., assignor to Enoz Chemical Company, Chicago, Ill. Machine for treating containers. 2,427,811; Sept. 23.
- Rich, Ivor, New York, N. Y. Lipstick case. 2,415,306; Feb. 4.
- Rich, Theodore A., Schenectady, N. Y., assignor to General Electric Company. Voltage ratio recorder. 2,420,193; May 6.
- Richard, Charles D., West New Brighton, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone call transmitter. 2,416,715; Mar. 4.
- Richard, Charles D., West New Brighton, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Indicating keyboard telephone call transmitter. 2,433,398; Dec. 30.
- Richard, William E., Evansville, Ind., assignor, by mesne assignments, to Seeger-Sunbeam Corporation. Refrigerator cabinet. 2,416,845; Mar. 4.
- Richard, William E., Evansville, Ind., assignor to Seeger Refrigerator Company. Refrigerator cabinet construction having means to restrict moisture in the walls of the cabinet. 2,432,042; Dec. 2.
- Richard, William E., and J. H. Denny, Evansville, Ind., assignors, by mesne assignments, to Seeger-Sunbeam Corporation. Home freezer cabinet. 2,414,061; Jan. 7.
- Richards, Alfred A., Bredgar, near Sittingbourne, assignor to Edward Lloyd Limited, London, England. Container. 2,415,260; Feb. 4.
- Richards, Boggs & King, Incorporated, assignee: *See*—  
Richards, Harvey B., and Crawford.
- Richards, Charles, Quincy, Mass. Plate holder. 2,422,261; June 17.
- Richards Chemical Works, Incorporated, The, assignee: *See*—  
Valko, Emeric I.
- Richards, Claude L., assignor to The Mullard Radio Valve Company Limited, London, England. Frequency modulated receiver. 2,415,656; Feb. 11.
- Richards, Claude L., Little Haldon, Newdigate, Surrey, England, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Cathode-ray tube with magnetic compensating means. 2,425,125; Aug. 5.
- Richards, Dwight, assignor to The Buda Company, Harvey, Ill. Variable gauge motor car. 2,415,219; Feb. 4.
- Richards, Dwight, assignor to The Buda Company, Harvey, Ill. Earth drill. 2,418,601; Apr. 8.
- Richards, Dwight, assignor to The Buda Company, Harvey, Ill. Hydraulic jack. 2,420,910; May 20.
- Richards, Edward A., L. J. Ellison, and F. Gray, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Manufacture of rectified discs. 2,417,839; Mar. 25.
- Richards, Edwin R., Chicago, Ill. Open hearth furnace. 2,415,761; Feb. 11.
- Richards, Harry W.: *See*—  
Grell, Herm H. G., and Richards.
- Richards, Harvey B., and M. T. Crawford, assignors to Richards, Boggs & King, Incorporated. Swimming cap. 2,417,323; Mar. 11.
- Richards, Henry I., Arlington, Va. Bottle-carrying tray. 2,428,386; Oct. 7.
- Richards, John C., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Bleaching polyacrylonitrile. 2,432,448; Dec. 9.
- Richards, John J., assignor to I. I. Cragin, Brookline, Mass. Apparatus for vaporizing liquids. 2,417,126; Mar. 11.
- Richards, John J., assignor to I. I. Cragin, Brookline, Mass. Vaporizer. 2,424,209; July 15.
- Richards, Lawrence M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Copolymers of vinyl thioesters and esters of 1,4-butenedioic acids. 2,418,426; Apr. 1.
- Richards, Lawrence M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Reaction product of a polyethylenically unsaturated polymer and a carbothioic acid. 2,420,194; May 6.
- Richards, Lawrence M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Photopolymerization of vinylidene compounds in the presence of N-disubstituted dithiocarbamic esters. 2,423,520; July 8.
- Richards, Lorenzo A., Riverside, Calif., assignor to United States of America, as represented by the Secretary of the Navy. Support for rocket launchers. 2,428,761; Oct. 7.
- Richards, Oscar W., Snyder, N. Y., assignor, by mesne assignments, to American Optical Company, Southbridge, Mass. Variable field microscope. 2,418,602; Apr. 8.
- Richards, Ralph N., Marion, Ind. Shipping box for chicks and the like. 2,422,438; June 17.
- Richards, Wilbur R.: *See*—  
Marette, Ralph T., and Richards.
- Richards, William H., Dayton, Ohio. Reel. 2,425,344; Aug. 12.
- Richardson, Avery G.: *See*—  
Busignies, Henri G., and Richardson.
- Richardson, Avery G., Boonton, assignor to Federal Telephone and Radio Corporation, Newark, N. J. Sealing conductor joints. 2,419,592; Apr. 29.
- Richardson, Avery G., Boonton, and C. S. Bednash, Jersey City, assignors to Federal Telephone and Radio Corporation, Newark, N. J. Portable antenna mounting. 2,426,240; Aug. 26.
- Richardson, Chester N., Youngstown, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Liquid electrode electrolytic cell. 2,428,584; Oct. 7.
- Richardson, Joseph W., and J. Cuneo, Woodridge, N. J. Wheel antiskid equipment. 2,427,510; Sept. 16.
- Richardson, Philip B., Montclair, assignor to Richardson Scale Company, Clifton, N. J. Vending machine. 2,416,221; Feb. 18.
- Richardson, Robert A., Oakland, Calif. Box springs and making same. 2,414,978; Jan. 28.
- Richardson, Roger W.: *See*—  
Gohr, Edwin J., and Richardson.
- Richardson Scale Company, assignee: *See*—  
Richardson, Philip B.
- Riche, Arthur L., Freeport, Ill., assignor, by mesne assignments, to First Industrial Corporation, Wilmington, Del. Gang switch for dispatch systems. 2,424,668; July 29.
- Richeson, Sanford E., Brooklyn, N. Y. Coffee roasting machine comprising roasting and cooling drums. 2,415,307; Feb. 4.
- Richey, David M., Devon, assignor to United Aircraft Corporation, East Hartford, Conn. Gun charger installation. 2,431,079; Nov. 18.
- Richey, David M., Devon, and B. J. Trayner, Bridgeport, assignors to United Aircraft Corporation, East Hartford, Conn. Explosive-release mechanism. 2,421,807; June 10.
- Richfield Oil Corporation, assignee: *See*—  
Kewes, Charles K.
- Richker, Charles: *See*—  
Eastman, du Bois, and Richker.
- Richman, William D. W., Trowbridge, England. Movably mounted and vibratory device for feeding greasy or viscous material. 2,414,273; Jan. 14.
- Richman, William D. W., Trowbridge, England. Rotary conveyor with radially movable ejectors for feeding powdery materials. 2,429,296; Oct. 21.
- Richmond, Harry H.: *See*—  
Haun, Joye C., and R. E. and H. H. Richmond.
- Richmond, Joseph L.: *See*—  
Cable, George W., and Richmond.
- Hartsfield, Ernest P., and Richmond.
- Richmond, Robert E.: *See*—  
Haun, Joye C., and R. E. and H. H. Richmond.
- Richolt, Robert K.: *See*—  
Crot, André, and Richolt.
- Dunn, William J., and Richolt.
- Richolt, Robert R., Tujunga, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Valve for pressure fluid servomotors. 2,424,901; July 29.
- Richou, Maxime J., Paris, France: vested in the Attorney General of the United States. High altitude flying suit. 2,417,177; Mar. 11.
- Richter, Aura A., assignee: *See*—  
Richter, Herman F.
- Richter, Charles, Tampa, Fla. Oscillating piston internal-combustion engine. 2,416,846; Mar. 4.
- Richter, Henry J.: *See*—  
Howk, Benjamin W., and Richter.
- Richter, Herman F., Los Angeles, Calif., assignor, by decree of distribution, to A. A. Richter. Rod or pipe coupling. 2,420,683; May 20.
- Richter, Johan C. F. C., Oslo, Norway, assignor to Aktiebolaget Kamy, Karlstad, Sweden. Apparatus for heating and controlling the temperature in a continuously operating digester. 2,414,062; Jan. 7.
- Richter, William, assignor to Paramount Textile Machinery Co., Kankakee, Ill. Lead locating fixture. 2,414,896; Jan. 28.
- Rickard, Glenn, Jr., Flint, Mich. Counting device. 2,422,584; June 17.
- Rickenmann, Alfred, Zurich, Switzerland. Screw thread grinding machine. 2,423,405; July 1.
- Rickenmann, Alfred, Kusnacht/Zurich, Switzerland. Machine for grinding toothed gears. 2,424,191; July 15.
- Ricketts, Lawrence M., Baltimore, Md., assignor of one-fourth to S. P. Brady, Sr., New York, N. Y., one-fourth to S. P. Brady, Jr., Brooklandville, Md., and one-fourth to M. W. Morgan, Baltimore, Md. Friction clutch. 2,426,791; Sept. 2.
- Ricklin, Saul: *See*—  
Hirschland, Herbert E., and Ricklin.
- Rickmeyer, Ernst W., Berkeley, assignor to Jefferson Electric Company, Bellwood, Ill. Electrode attachment. 2,414,897; Jan. 28.
- Rickmeyer, Ernst W., Berkeley, assignor to Jefferson Electric Company, Bellwood, Ill. Mercury switch. 2,431,964; Dec. 2.



- Rickmeyer, Ernst W., Elmhurst, assignor to Jefferson Electric Company, Bellwood, Ill. Timing unit for centrifugal switches. 2,414,836; Jan. 28.
- Ricks, Bernard E., Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Socket assembly. 2,420,621; May 13.
- Riekus, George M., S. G. Hoffman, and B. H. Archer, assignors to Hat Corporation of America, Norwalk, Conn. Dyed composite felt and making same. 2,429,073; Oct. 14.
- Ridbo Laboratories, Inc., assignee: *See—*  
Auer, Laszlo.
- Ridder, Joseph U., Lakewood, assignor to The Yoder Company, Cleveland, Ohio. Burr removing mechanism. 2,423,468, July 8.
- Ridder, Louis F., Jr.: *See—*  
Phillips, John P., and Ridder, Jr.
- Riddington, Frederick W., Ontario, Calif., assignor to General Electric Company. Electric heater having thermostatic control and signal means. 2,424,504; July 22.
- Rider, Theodore H.: *See—*  
Wandel, George H., and Rider.
- Ridgway, Raymond R., Niagara Falls, N. Y., assignor to Norton Company, Worcester, Mass. Method and apparatus for fusing refractory materials. 2,426,643; Sept. 2.
- Ridgway, William F., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Drive mechanism for machine tools. 2,433,786; Dec. 30.
- Riebe, Theodore C., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Loud-speaker telephone set. 2,433,295; Dec. 23.
- Rieber, Frank, Los Angeles, Calif. Apparatus and method for making and analyzing geophysical records. 2,427,421; Sept. 16.
- Rieber, Frank, assignor to Interval Instruments, Inc., New York, N. Y. Acoustic reservoir for use in a magnetic sound recording and reproducing system. 2,424,633; July 29.
- Rieber, Frank, assignor to Interval Instruments, Inc., New York, N. Y. Theater amplifying and sound distribution system. 2,424,634; July 29.
- Rieber, Frank, assignor to Interval Instruments, Inc., New York, N. Y. System for detecting magnetic masses. 2,424,772; July 29.
- Rieber, Frank, assignor to Interval Instruments, Inc., New York, N. Y. Locating device. 2,424,773; July 29.
- Rieber, Frank, assignor to Interval Instruments, Inc., New York, N. Y. Frequency controlled frequency meter. 2,429,427; Oct. 21.
- Riede, Peter M., Buffalo, assignor to The Linde Air Products Company, New York, N. Y. Rotary pump. 2,426,645; Sept. 2.
- Riede, Peter M., Buffalo, assignor to The Linde Air Products Company, New York, N. Y. Rotary pumping apparatus. 2,426,950; Sept. 2.
- Riedel, Walter W., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Detonator head. 2,427,812; Sept. 23.
- Rieder, George E., Houston, Tex. Fruit and vegetable cutter, including a pivoted frame having detachable blades. 2,429,108; Oct. 14.
- Riedler, Walter: *See—*  
Mechur, Bert, and Riedler.
- Rieke, John W., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sweep control circuits. 2,414,486; Jan. 21.
- Rief, Frank J.: *See—*  
Agnew, Albert B., and Rief.
- Riegel, Austin B., San Francisco, Calif. Valve grinder. 2,425,898; Aug. 19.
- Riegel, Byron, Evanston, and E. W. Meyer, Chicago, Ill., R. W. Gouley, Brooks, Oreg., and J. Beiswanger, Washington, N. J.; said Riegel, said Meyer and said Beiswanger, assignors to The Glidden Company, Cleveland, Ohio. Compounds of 1-bisnorcholeic acid and producing the same. 2,427,363; Sept. 16.
- Riemann, Howard C., West Milwaukee, assignor to The Fulton Company, West Allis, Wis. Garment hanger. 2,432,251; Dec. 9.
- Riepert, Hermann, and H. Broschke, Wetzlar, Germany; vested in the Attorney General of the United States. Microhardness testing instrument. 2,422,634; June 17.
- Ries, Edward J., Brighton, assignor to Ritter Company, Inc., Rochester, N. Y. Electrical heating means. 2,431,620; Nov. 25.
- Ries, Edward J., Brighton, and L. H. Brune, assignors to Ritter Company, Inc., Rochester, N. Y. Liquid mixing device. 2,415,534; Feb. 11.
- Rieser Company, Inc., The, assignee: *See—*  
Bergen, Edward.
- Rieske, Otto G., Buffalo, N. Y. Composite punching and dimpling tool. 2,432,804; Dec. 16.
- Riess, John, St. Louis, Mo., assignor to Henry Hotze & Sons Company. Hand-carried luggage. 2,420,150; May 6.
- Riess, John, St. Louis, Mo., assignor to Henry Hotze & Sons Company. Insertable clothes holder for hand-carried luggage. 2,430,030; Nov. 4.
- Rieth, Albert: *See—*  
Augenstein, Karl C., and Rieth.
- Riethof, George, Mount Lebanon, assignor to Pittsburgh Coke & Chemical Company, Pittsburgh, Pa. Separating pyrrole and pyridine bases. 2,425,440; Aug. 12.
- Rieveschl, George, Jr., Grosse Pointe Woods, assignor to Park, Davis & Company, Detroit, Mich. Dialkylamino-alkyl benzhydryl ethers and salts thereof. 2,421,714; June 3.
- Rieveschl, George, Jr., Grosse Pointe Woods, assignor to Parke, Davis & Company, Detroit, Mich. Dialkylamino-propyl ethers of benzhydryl. 2,427,878; Sept. 23.
- Riff, Frank J.: *See—*  
Agnew, Albert B., and Riff.
- Rigagig Toy Company, assignee: *See—*  
Carson, Lawrence E.
- Rigby, George W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Stabilizing dithio-glycerols. 2,423,344; July 1.
- Riggan, William H., Warrenton, N. C. Artificial lure. 2,418,527; Apr. 8.
- Riggins, Glen L., Greene, Iowa. Coupling. 2,420,725; May 20.
- Riggs, Harold C., Langhorne Manor, Pa., assignor to The Electric Storage Battery Company. Storage battery electric heater. 2,418,792; Apr. 8.
- Riggs, Herbert E., assignor to Wingfoot Corporation, Akron, Ohio. Apparatus for cutting rubber sheet stock and the like. 2,424,709; July 29.
- Riggs, Lloyd K., Chicago, Ill., assignor to Kraft Foods Company. Manufacture of cream products. 2,414,837; Jan. 28.
- Riggs, Walter S., Haddon Heights, and N. D. Peschko, Haddonfield, N. J., assignors to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Stable hypochlorite composition. 2,415,657; Feb. 11.
- Rigterink, Raymond H.: *See—*  
Perkins, Ralph P., and Rigterink.
- Riker, Burton M., assignor to McGraw Electric Company, Elgin, Ill. Electric sadiron. 2,420,195; May 6.
- Rile-Coe Filter Process, Inc., assignee: *See—*  
Coe, Mayne R.
- Riley, Chester A., Melrose, Mass., assignor to The B. F. Goodrich Company, New York, N. Y. Joining a sheet-like material to other materials, and the product so produced. 2,427,229; Sept. 9.
- Riley, Leo L., Redondo Beach, Calif. Mechanically driven boat. 2,425,441; Aug. 12.
- Riley, Robert W.: *See—*  
Dickerman, Gilbert R., and Riley.
- Riley Stoker Corporation, assignee: *See—*  
Andrews, L. V., and Rehm.  
Kuhner, Max H.  
Rehm, Gustav A.
- Riley, Walter W.: *See—*  
Kersenbrock, William J., and Riley.
- Rinderknecht, Heinrich: *See—*  
Bergel, Franz, Hindley, Morrison, and Rinderknecht.
- Rinehart, Carl H., Auburn, N. Y. Spark plug. 2,416,643; Feb. 25.
- Ring, Douglas H., Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Microwave transmission system. 2,425,345; Aug. 12.
- Ring, Jacob, Brighton, Mass. Carrier for bottles and the like. 2,425,564; Aug. 12.
- Ring, Robert C., Schenectady, N. Y., assignor to General Electric Company. Time delay relay. 2,422,986; June 24.
- Ringe, William H., Berkeley, Calif. Trolley and conductor track. 2,427,475; Sept. 16.
- Ringer, Luther: *See—*  
Gledhof, Peter E., and Ringer.
- Ringler, William A., Wayne, Pa., assignor to The Gardner-Richardson Company, Middletown, Ohio. Carrier for merchandise. 2,421,850; June 10.
- Ringler, William A., Wayne, Pa., assignor to The Gardner-Richardson Company, Middletown, Ohio. Sealable carton for frozen foods. 2,425,642; Aug. 12.
- Ringler, William A., Wayne, Pa., assignor to The Gardner-Richardson Company, Middletown, Ohio. Carrier for bottles and other articles. 2,430,302; Nov. 4.
- Ringler, William A., Wayne, Pa., assignor to The Gardner-Richardson Company, Middletown, Ohio. Carrier for bottles and the like. 2,433,676; Dec. 30.
- Rinkenbach, William H., and V. C. Allison, Dover, N. J., assignors to Government of the United States, as represented by the Secretary of War. Black powder. 2,415,848; Feb. 18.
- Rinnela, Andrew, New York, N. Y. Shoe stretcher. 2,424,669; July 29.
- Ripley, James H., San Francisco, Calif. Inflatable safety shirt. 2,425,206; Aug. 5.
- Rippel, Francis J.: *See—*  
Isaac, Elmer B., and Rippel.
- Rippere, Robert O., Massapequa, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic dead reckoning device. 2,425,346; Aug. 12.
- Risk, Thomas H., Franklin, Mich. Sealing screw closure. 2,417,703; Mar. 18.
- Risk, Thomas J., Central Falls, R. I. Spindle. 2,433,579; Dec. 30.
- Ritchie, John R., Minneapolis, Minn. Road roller wheel wobbling structure. 2,432,683; Dec. 16.
- Ritchie, Robert: *See—*  
Bellsynder, Thomas, Sr., and Ritchie.



- Rite-Way Products Co., assignee: *See*—  
Anderson, Gustave A.
- Rittenhouse, John D., Palos Verdes Estates, Calif., assignor to Union Oil Company of California. Recovery of azeotropic former in distillation of hydrocarbons. 2,415,192; Feb. 4.
- Ritter, Alois A., Racine, Wis., assignor to Hartman Company. Sealing means for luggage case sections. 2,415,220; Feb. 4.
- Ritter Company, Inc., assignee: *See*—  
Maxson, Clarence G.  
May, Adam J. and Maxson.  
Ries, Edward J.  
Ries, Edward J., and Brune.
- Ritter, Henry T., South Rockwood, Mich. Bird house and partition element. 2,417,178; Mar. 11.
- Ritter, John H.: *See*—  
Ritter, John J., and J. H.  
Ritter, John J. and J. H., Seattle, Wash.; said J. H. Ritter assignor to J. J. Ritter. Method and apparatus for combining alternating- and direct-current voltages. 2,431,080; Nov. 18.
- Ritter Products Corporation, assignee: *See*—  
Johnson, Herbert B., and Johnson.
- Ritter, William K.: *See*—  
Schey, Oscar W., and Ritter.
- Ritzert, Robert W., assignor to The Egry Register Co., Dayton, Ohio. Ribbon feed mechanism for manifolding machines. 2,419,036; Apr. 15.
- Ritzert, Robert W., assignor to The Egry Register Co., Dayton, Ohio. Ribbon feed mechanism for manifolding machines. 2,419,369; Apr. 22.
- Ritzert, Robert W., Dayton, Ohio, assignor to Remington Rand, Inc., Buffalo, N. Y. Printing interpreter. 2,426,951; Sept. 2.
- Ritzler, John A.: *See*—  
Haman, Howard H., and Ritzler.
- Rivard, Lawrence B., Dearborn, and Walter Jensen, Detroit, assignors to Ford Motor Company, Dearborn, Mich. Vehicle seat. 2,421,851; June 10.
- Rivard, Lawrence B., and H. C. Kroepel, assignors to Ford Motor Company, Dearborn, Mich. Fender construction. 2,417,324; Mar. 11.
- Rivard, Wilfred E., Moxee City, and F. Morford, Yakima, Wash., said Morford assignor to said Rivard. Hop picking fingers. 2,428,321; Sept. 30.
- Riveroll, Elfego, Hermosa Beach, Calif. Recovery of iron from ore. 2,417,949; Mar. 25.
- Rivers, Thomas D., Portsmouth, Va. Fuel oil burner. 2,420,981; May 20.
- Rix, Charles H., Storm Lake, Iowa. Overhead garage door keeper. 2,426,052; Aug. 19.
- Rizzuto, Charles, Brooklyn, N. Y. Baby carriage. 2,418,665; Apr. 8.
- Rizzuto, Charles, Brooklyn, N. Y. Type bar releasing device for typewriters. 2,420,445; May 13.
- Roach, Earl M., assignor to Arvey Corporation, Chicago, Ill. Structural toy assembly means. 2,429,109; Oct. 14.
- Roach, Edward, assignor to J. U. Birnie, Los Angeles, Calif. Coating metal with inorganic insulating composition. 2,424,054; July 15.
- Roach, Edward, Los Angeles, Calif., assignor, by mesne assignments, to W. M. Farrer, O. A. Mellin, and G. M. Correo, as trustees. Protective coatings. 2,429,946; Oct. 28.
- Roach, John A., Lanett, Ala., assignor to William D. Dodenhoff, Greenville, S. C. Jack strap and clamp for looms. 2,426,975; Sept. 2.
- Roach, Robert F., Mangum, Okla. Wire stretcher. 2,423,903; July 15.
- Roachell, James M., Honolulu, Territory of Hawaii. Grip extension for handles. 2,429,731; Oct. 28.
- Robb, Charles G., Glastonbury, and Sydney E. Warner, East Hartford, assignors to Crystal Research Laboratories, Inc., Hartford, Conn. Piezoelectric crystal mounting. 2,416,067; Feb. 18.
- Robb, Frank B.: *See*—  
Lichtenberg, Erich H., and Robb.
- Robb, Joseph & Co. Limited, assignee: *See*—  
Carrier, Georges E.
- Robbie, Norman F., and E. H. Whitfield, assignors to Welwyn Electrical Laboratories Limited, Welwyn Garden City, England. Manufacture of electrical resistances. 2,431,965; Dec. 2.
- Robbins, Benjamin C., Baltimore, Md. Burner cradle. 2,424,286; July 22.
- Robbins, Charles F., assignor to Markem Machine Company, Keene, N. H. Machine for marking wire. 2,425,266; Aug. 5.
- Robbins, Charles W., Cincinnati, Ohio. Automatic sear release for firearms. 2,427,304; Sept. 9.
- Robbins, Julian S., Brooklyn, N. Y. Adjustable shoe rack. 2,431,423; Nov. 25.
- Robbins, Leo: *See*—  
Zeitlin, Alexander, and Robbins.
- Robbins, Sylvia S.: *See*—  
Raiff, Andrew, S. S. and V. G. Robbins, and Rosen.
- Robbins, Victor G.: *See*—  
Raiff, Andrew, S. S. and V. G. Robbins, and Rosen.
- Roberts, Wesley M., Collingswood, N. J., assignor to Radio Corporation of America. Heating gear with high frequency current. 2,426,053; Aug. 19.
- Roberts, Wesley M., Collingswood, N. J., assignor to Radio Corporation of America. Treatment of metals. 2,433,627; Dec. 30.
- Robert Company, The, assignee: *See*—  
Zeiler, Frank.
- Robert, Alan A., West Hollywood, Calif. Tray and the like. 2,425,952; Aug. 19.
- Roberts, Bruce, Philadelphia, Pa., assignor to General Electric Company. Push button tuner for multiband radio receivers. 2,419,968; May 6.
- Roberts, Bruce, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Phonograph pickup device. 2,423,662; July 8.
- Roberts, Bruce, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Phonograph pick-up device. 2,432,444; Dec. 9.
- Roberts, Charles A., San Antonio, Tex. Orthopedic heel for shoes. 2,417,127; Mar. 11.
- Roberts, Claudius H. M., Palos Verdes Estates, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Electrical apparatus for separating the constituents of an oil-water system. 2,425,355; Aug. 12.
- Roberts, David S.: *See*—  
Palmer, Edwin, and Schwartz.
- Roberts, Earl J.: *See*—  
Ambler, Joseph A., and Roberts.  
Burnett, Raymond S., and Roberts.
- Roberts, Earle L., Modesto, Calif. Storage warehouse providing for the dissipation of moisture released from stored dehydrated fruits. 2,422,987; June 24.
- Roberts, Elliott J.: *See*—  
Gutzeit, Gregoire, Roberts, and Thompson.
- Roberts, Forrest A., assignor of fifteen one-hundredths to M. L. Roberts, Arlington, Va. Cigarette ash receiver. 2,424,710; July 29.
- Roberts, Fred T. and R. E., Ridgefield, Conn. Making flexible tubes. 2,430,081; Nov. 4.
- Roberts, Frederick H., Charleston, W. Va., and H. R. Fife, Mount Lebanon, Pa., assignor to Carbide and Carbon Chemicals Corporation. Mixtures of polyoxyalkylene monohydroxy compounds and making such mixtures. 2,425,755; Aug. 19.
- Roberts, George G., Alameda, Calif. Safe embodied in a bathtub. 2,429,487; Oct. 21.
- Roberts, Glenn S., executor: *See*—  
Swallow, William D.
- Roberts, Ingham S., Ridley Park, Pa., assignor to American Viscose Corporation, Wilmington, Del. Flyer twisting machine. 2,429,330; Oct. 21.
- Roberts, James A., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Counter-sinking machine. 2,419,657; Apr. 29.
- Roberts, John M., Crystal Lake, Ill. Typewriter clamp means. 2,416,120; Feb. 18.
- Roberts, Joseph K., Flossmoor, assignor to Standard Oil Company, Chicago, Ill. Preventing build-up of light gases in a paraffin isomerization process. 2,433,482; Dec. 30.
- Roberts, Louis D.: *See*—  
Wilbur, Donald A., and Roberts.
- Roberts, Mary L., assignee: *See*—  
Roberts, Forrest A.
- Roberts, Obe, assignee: *See*—  
Padgett, Vernie G.
- Roberts & Porter, Inc., assignee: *See*—  
Mack, Norman A.
- Roberts, Reon B., Fairfield, assignor to United Aircraft Corporation, East Hartford, Conn. Gauging and bending tool for rotor blades. 2,422,042; June 10.
- Roberts, Robert E.: *See*—  
Roberts, Fred T. and R. E.
- Roberts, Robert M.: *See*—  
Engs, William, Wik, and Roberts.
- Roberts, Stephen C., Portland, Oreg. Carrier handle. 2,430,142; Nov. 4.
- Roberts, Stiles M.: *See*—  
McCleary, Rush F., and Roberts.
- Roberts, Walter V., and S. G. Frantz, Princeton, N. J., assignors to Radio Corporation of America. Tunable high-frequency tank circuits. 2,428,037; Sept. 30.
- Roberts, Walter van B., Princeton, N. J., assignor to Radio Corporation of America. Frequency responsive remote-control system. 2,429,771; Oct. 28.
- Robertshaw Thermostat Company, assignee: *See*—  
Eskin, Samuel G., and Strobel.  
Kunzler, William S.  
Strobel, Charles K.
- Robertson, Andrew W., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Lining for sinks or the like. 2,421,808; June 10.
- Robertson, Archibald, Hollywood, Calif., assignor to Adel Precision Products Corp. Bulkhead clip. 2,413,927; Jan. 7.
- Robertson, Archibald, North Hollywood, Calif., assignor to Adel Precision Products Corp. Conduit-supported wire clip. 2,417,269; Mar. 11.
- Robertson, Archibald, North Hollywood, and D. W. Merritt, Torrance, assignors to Adel Precision Products Corp., Burbank, Calif. Adjustable wire or conduit clip. 2,426,708; Sept. 2.
- Robertson, Charles A., San Francisco, assignor to Round California Chain Corp., Ltd., South San Francisco, Calif. Stud chain machine. 2,427,535; Sept. 16.



- Robertson, Donald D.: *See*—  
Edwards, Paul G., and Robertson.
- Robertson, Elmer E., Harbor City, Calif. Furnace. 2,424,330; July 22.
- Robertson, Edward R., St. Margarets-on-Thames, Twickenham, assignor to O. E. Simmonds, Ripley, Surrey, England. Lock nut. 2,432,805; Dec. 16.
- Robertson, H. H., assignee: *See*—  
Hubbell, Dean S.
- Robertson, H. H., Company, assignee: *See*—  
Snyder, Purdum M.
- Robertson, James A., Elsmere, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Catalytic reduction of organic chloro-nitro compounds. 2,420,382; May 13.
- Robertson, John A., Deerfield, T. P. Camp, Arlington Heights, and C. N. Kolmodin, assignors to United States Gypsum Company, Chicago, Ill. Structural product. 2,427,879; Sept. 23.
- Robertson, John D., assignor to Mount Hope Machinery Company, Taunton, Mass. Cloth guider. 2,417,447; Mar. 18.
- Robertson, John D., assignor to Mount Hope Machinery Company, Taunton, Mass. Cloth guider. 2,422,369; June 17.
- Robertson, Wayne E., Westby, Wis. Train order delivery fork. 2,431,199; Nov. 18.
- Robertson, William, and L. W. Higgins, assignors to Bulldog Electric Products Company, Detroit, Mich. Panel-board of detachably mounted switching devices. 2,428,322; Sept. 30.
- Robeson, Edna G., assignor of one-half to T. B. Short, Miami, Fla. Vision aid. 2,419,917; Apr. 29.
- Robeson, Max O.: *See*—  
Bludworth, Joseph E., and Robeson.
- Robin, Jacob I., New York, N. Y. Suspension means. 2,420,196; May 6.
- Robinette, Willard C., Pasadena, Calif. Gun train indication for airplane pilots. 2,413,785; Jan. 7.
- Robinette, Willard C., South Pasadena, Calif. High-speed motor. 2,421,355; May 27.
- Robins, Adolf, White Plains, assignor to Tip Top Toy Company, New York, N. Y. Racing game. 2,429,428; Oct. 21.
- Robinsohn, Jacob, New York, N. Y. Slide fastener. 2,418,482; Apr. 8.
- Robinson, Albert P., Seattle, Wash. Supporting frame for twin golf bags. 2,422,315; June 17.
- Robinson, Arthur W., Jr.: *See*—  
Harkness, Joseph R., and Robinson.
- Robinson Brothers Limited, assignee: *See*—  
Parkes, Deric W., and Ford.
- Robinson, Cecil S., New York, N. Y. Vibration absorption unit. 2,425,565; Aug. 12.
- Robinson, Cecil S., New York, N. Y. Vibration absorption block. 2,425,566; Aug. 12.
- Robinson, Cecil S., New York, N. Y. Vibration absorption device. 2,425,567; Aug. 12.
- Robinson, Cecil S., assignor of one-half to Dorothy H. Robinson, New York, N. Y. Vibration absorbing mount. 2,428,293; Sept. 30.
- Robinson, Charles A., Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for use in the manufacture of shoes. 2,420,684; May 20.
- Robinson, Charles A., Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Fastening inserting machine. 2,420,685; May 20.
- Robinson, Charles A., Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,421,435; June 3.
- Robinson, Charles A., Salem, and H. A. Imhof, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Fastening inserting mechanism. 2,418,140; Apr. 1.
- Robinson, Charles A., Salem, and H. A. Imhof, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Machine for use in the manufacture of shoes. 2,423,852; July 15.
- Robinson, Charles A., Salem, and H. A. Imhof, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Shoe machine. 2,430,889; Nov. 18.
- Robinson, Charles E., Carlsbad, Calif. Valve-seat puller. 2,428,179; Sept. 30.
- Robinson, Charlotte R. B., assignee, et al.: *See*—  
Bucknell, Ernest H., and Bletcher.
- Robinson, Dorothy H., assignee: *See*—  
Robinson, Cecil S.
- Robinson, Duncan D.: *See*—  
Holland, John D., and Robinson.
- Robinson, E. S. & A., Limited, assignee: *See*—  
Ashman, Arthur.
- Robinson, Edwin A., Chatham, and R. M. Beach, Newark, assignors to National Oil Products Company, Harrison, N. J. Chromium complex compounds. 2,418,528; Apr. 8.
- Robinson, Edwin A., Chatham, and M. J. Kelley, Newark, assignors to Nopco Chemical Company, Harrison, N. J. Diamide textile lubricants. 2,425,392; Aug. 12.
- Robinson, Edwin A., Chatham, and M. J. Kelley, Newark, assignors to Nopco Chemical Company, Harrison, N. J. Hydroxylated polyamide textile lubricants. 2,425,393; Aug. 12.
- Robinson, Elliott F.: *See*—  
Breckner, Gary G., and Robinson.
- Robinson, Harris A., Philadelphia, Pa., assignor to Radio Corporation of America. Two-way radio communication system. 2,419,593; Apr. 29.
- Robinson, Harry C., Chattanooga, Tenn. Bar buckle. 2,418,096; Mar. 25.
- Robinson, Jack D., Cuyahoga Falls, assignor to Wingfoot Corporation, Akron, Ohio. Halogenation of alpha, beta-unsaturated nitriles. 2,429,031; Oct. 14.
- Robinson, James, assignor to Vickers Incorporated, Detroit, Mich. Hydraulic power transmission. 2,416,801; Mar. 4.
- Robinson, John G.: *See*—  
Clark, Leslie M., and Robinson.
- Robinson, Jonas, Clarke Summit, Pa. Compensator. 2,413,728; Jan. 7.
- Robinson, Marguerite G., executrix: *See*—  
Robinson, Wallace W.
- Robinson, Melvin A., Washington, D. C. Detachable shoe cleat. 2,430,412; Nov. 4.
- Robinson, Percy W., Scotia, N. Y., assignor to General Electric Company. Motor overload protection. 2,414,331; Jan. 14.
- Robinson, Preston, Williamstown, and S. O. Dorst, North Adams, Mass., assignors to Sprague Electric Company. Electrical conductor. 2,421,652; June 3.
- Robinson, Richard R.: *See*—  
Dimsdale, Wilfrid H., and Robinson.
- Robinson, Thomas F.: *See*—  
Coe, Reginald T., Robinson, and Welch.
- Robinson, Wallace W., deceased, Portland, Maine; M. G. Robinson, executrix. Splint-stretcher frame. 2,417,378; Mar. 11.
- Robinson, William J., II, and F. E. P. Lindsay, Wilmington, Del. Basketball game goal. 2,421,220; May 27.
- Robison, Clinton S., Chicago, Ill. Making salt. 2,418,427; Apr. 1.
- Roblin, Richard O., Jr.: *See*—  
Clapp, Richard C., and Roblin.  
Winnek, Philip S., and Roblin.
- Robson, Briton S., Huyton Quarry, near Liverpool, assignor, by mesne assignments, to British Insulated Cables Limited, London, England. Variable ratio gearing. 2,432,210; Dec. 9.
- Robson, Duer C.: *See*—  
Rayburn, Vincent A., and Robson.
- Robson, Herbert H., San Leandro, Calif. Vehicle control pedal. 2,432,682; Dec. 16.
- Robson, Homer L.: *See*—  
Soule, Edward C., and Robson.
- Roby, Harry L., assignor to Star Thompson Tobacco Company (Incorporated), Tampa, Fla. Cigar former and guard. 2,414,670; Jan. 21.
- Roby, Horace H., and G. W. Jones, Wichita, Kans., assignors to Beech Aircraft Corporation. Electrically operated pitch control. 2,427,813; Sept. 23.
- Roby, Roy, Staunton, Va. Dual-purpose light. 2,421,288; May 27.
- Rocchini, Albert G., Aspinwall, and C. B. Pattinson, Jr., Oakmont, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Petroleum oil compositions. 2,420,446; May 13.
- Rocchini, Albert G., Aspinwall, and C. B. Pattinson, Jr., Oakmont, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Petroleum oil compositions. 2,432,806; Dec. 16.
- Rocchini, Albert G., Aspinwall, and C. B. Pattinson, Jr., Oakmont, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Petroleum oil compositions. 2,432,807; Dec. 16.
- Roche, Alfred R., assignor of one-half to C. L. Libman, Los Angeles, Calif. Artificial leg. 2,430,584; Nov. 11.
- Roche, Jean A. F., Norwood, Ohio. Electrical connector plug. 2,429,278; Oct. 21.
- Roche Organon, Inc., assignee: *See*—  
Reichstein, Tadeus.
- Rochester, Nathaniel, South Hamilton, assignor to Sylvania Electric Products Inc., Salem, Mass. Coupling device for electronic apparatus. 2,433,817; Dec. 30.
- Rochester Shoe Tree Co., Inc., assignee: *See*—  
Mutch, James B.
- Rochester Telephone Corporation, assignee: *See*—  
Gordon, Harry E.
- Rochius, Benjamin E., Cleveland Heights, Ohio. Advertising display. 2,414,559; Jan. 21.
- Rocke, William, South Bend, Ind. Massage apparatus. 2,432,211; Dec. 9.
- Rockey, Harry: *See*—  
Andresen, Garwood C., and Rockey.
- Rockhill, Roscoe R., Shorewood, assignor to Rex-O-Graph, Inc., Milwaukee, Wis. Block-in mechanism for duplicating machines. 2,415,038; Jan. 28.
- Rockhurst College, assignee: *See*—  
DeVilbiss, John A.
- Rockstroh, Kenneth W., assignor to S. C. Hurley, Jr., Danville, Ill. Device for rotating rounded objects. 2,426,751; Sept. 2.
- Rockwell, Edward A., West Hartford, Conn. Power unit system for applying brakes. 2,418,666; Apr. 8.
- Rockwell, Edward A., Cleveland, Ohio. Apparatus including power unit for setting brakes. 2,423,204; July 1.



- Rockwell, Edward A., Cleveland, Ohio. Adjustable Bowden wire. 2,427,623; Sept. 16.
- Rockwell, Edward A., Cleveland, Ohio, assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Packaged power accumulator. 2,418,667; Apr. 8.
- Rockwell, Harvey W., assignor to La Plant-Choate Manufacturing Co., Inc., Cedar Rapids, Iowa. Fairlead construction. 2,430,618; Nov. 11.
- Rockwell Manufacturing Company, assignee: *See—*  
Bergman, Charles P.  
Breckheimer, Raymond.  
Hedene, Edwin E.  
Tate, James.  
Wiken, Christy A., and Reibig.  
Wiken, Christy A., and Boehnke.
- Rockwood & Co., assignee: *See—*  
Jones, Wallace T.  
Jones, Wallace T., and Zenlea.  
Zeeh, Henry A., and Vacher.  
Zenlea, Benjamin H.
- Rockwood, George H., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical control circuit. 2,421,760; June 10.
- Rockwood Sprinkler Company of Massachusetts, assignee: *See—*  
Freeman, Howard G.
- Rodanet, Charles Hilaire Henri, Neuilly-sur-Seine, France, vested in the Attorney General of the United States. Apparatus for testing altimetric devices. 2,422,702; June 24.
- Rodda, John L., Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y. High manganese brass. 2,422,703; June 24.
- Roddy, Thomas C., Jr.: *See—*  
Oosterhout, Johan C. D., and Roddy.
- Roddy, Thomas C., Jr., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Stabilization of motor fuels. 2,426,709; Sept. 2.
- Rode, Friedrich J., Toledo, Ohio, assignor to E. W. Bliss Company, Brooklyn, N. Y. Increment press. 2,426,155; Aug. 19.
- Rodery, Conoe C., Leachville, Ark. Machine for cutting the tops from vegetables. 2,429,488; Oct. 21.
- Rodger, Robert, Watford, England. Latch lock, particularly for workmen's tool bags and analogous containers. 2,416,497; Feb. 25.
- Rodgers, Lester W., and S. H. Simpson, Evanston, Ill. Packing ring. 2,417,840; Mar. 25.
- Rodgers, Nelson E.: *See—*  
Meade, Reginald E., Rodgers, and Pollard.  
Pollard, Henry L., Rodgers, and Meade.
- Rodgers, Nelson E., H. L. Pollard, and R. E. Meade, Appleton, Wis., assignors to Western Condensing Company, San Francisco, Calif. Preparing riboflavin from whey and skim milk. 2,433,064; Dec. 23.
- Rodinger, George, Chicago, Ill. Food tray. 2,430,783; Nov. 11.
- Rodli, Gilbert, Huntingdon, Pa. Marker and making it. 2,430,534; Nov. 11.
- Rodman, Ernest A., Newburg, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyvinyl acetal resin compositions. 2,423,565; July 8.
- Rodman, Hugh, Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Koppers Company, Inc. Recovering and purifying carbazole and anthracene. 2,419,969; May 6.
- Rodman, Isaac P., Cambridge, Mass., assignor to Columbia Recording Corporation, New York, N. Y. Phonograph recording and reproducing system. 2,426,241; Aug. 26.
- Rodman, John R., and L. M. Collie, Chattanooga, Tenn. Motion-picture projector stand. 2,430,826; Nov. 11.
- Rodriguez, Antonio: *See—*  
Ragal, Alfredo, and Rodriguez.
- Rodway, John, Lincoln, England. Servo brake operating mechanism for vehicles. 2,416,222; Feb. 18.
- Roe, Howard A., assignor to The General Industries Company, Elyria, Ohio. Record changer mechanism for phonographs. 2,421,909; June 10.
- Roe, James, assignor of one-half to A. Kahn, Chicago, Ill. Wall or roof tile. 2,432,445; Dec. 9.
- Roe, Robert B., West Hempstead, and J. B. Gray, Garden City, N. W., assignors to Sperry Gyroscope Company, Inc. Navigation system. 2,419,970; May 6.
- Roe, William C., assignor to The Colson Corporation, Elyria, Ohio. Invalid chair. 2,427,161; Sept. 9.
- Roe, William C., assignor to The Colson Corporation, Elyria, Ohio. Adapter. 2,430,737; Nov. 11.
- Roedel, George F., Schenectady, N. Y., assignor to General Electric Company. Methyl vinyl polysiloxane-methyl methacrylate copolymers. 2,420,911; May 20.
- Roeder, Frank, assignee: *See—*  
Kraker, Bernard I.
- Roeder, William J., Robstown, Tex. Gravity flow cotton dryer having opposed throwing members. 2,430,686; Nov. 11.
- Roehner, Theodore G.: *See—*  
Carmichael, Emmett S., and Roehner.
- Roehner, Theodore G., Malverne, and L. H. Sudholz, Flushing, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated. Slushing compound and protecting metallic surfaces. 2,414,768; Jan. 21.
- Roehrl, Carl, Chicago, Ill. Control mechanism for molding presses. 2,416,406; Feb. 25.
- Roehrl, Bruno C., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Film cartridge. 2,423,663; July 8.
- Roelen, Otto: *See—*  
Landgraf, Alfred, and Roelen.
- Roes, Carl W., Pikesville, Md. Cigarette roller. 2,415,910; Feb. 18.
- Roesch, Frank P., Chicago, Ill., assignor to The Standard Stoker Company Inc. Coal pusher. 2,417,128; Mar. 11.
- Roesen, Oscar C., Scarsdale, N. Y., and C. L. Ricards, South Plainfield, assignors to Wood Newspaper Machinery Corporation, Plainfield, N. J. Stereotype plate casting machine. 2,432,043; Dec. 2.
- Roessler, Gordon W., and R. A. Chilcote, assignors to Northwestern Glass Company, Seattle, Wash. Making hollow sealed glass bodies. 2,433,399; Dec. 30.
- Roessner, William L., Denver, Colo. Fusible link. 2,414,243; Jan. 14.
- Roethel Engineering Corporation, assignee: *See—*  
Roethel, John H.
- Roethel, John H., assignor to Roethel Engineering Corporation, Detroit, Mich. Door latch. 2,427,511; Sept. 16.
- Roetheli, Bruno E.: *See—*  
Gohr, Edwin J., Barr, and Roetheli.
- Roetheli, Bruno E., Cranford, N. J., assignor to Standard Oil Development Company. Apparatus for carrying out chemical reactions in the presence of finely-divided powder. 2,422,501; June 17.
- Roetman, Edmund T.: *See—*  
Collins, Benjamin W., and Roetman.
- Rogati, Carlo, assignor to Omes Limited, London, England. Electrical forging machine. 2,422,928; June 24.
- Roger-Petit, Jean C., assignor to Societe a Responsabilite Limitee: Zenith Radio, Paris, France. Mechanism for controlling the drawer carrying the coils of a wireless receiver. 2,427,745; Sept. 23.
- Rogers, Argiel W., Long Beach, Calif. Artificial limb. 2,422,748; June 24.
- Rogers, Arthur O., Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyamide solutions. 2,415,193; Feb. 4.
- Rogers, Arthur O., Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of nitriles. 2,415,261; Feb. 4.
- Rogers, Cyril R., Port Arthur, Ontario, assignor to Provincial Paper Limited, Toronto, Ontario, Canada. Cable conveyor button or block. 2,433,324; Dec. 23.
- Rogers, Dilworth T.: *See—*  
McNab, John G., and Rogers.  
Winning, Carl, and Rogers.
- Rogers, Dilworth T., Pearl River, assignor, by mesne assignments, to American Cyanamid Company, New York, N. Y. Producing pantothenic acid. 2,418,902; Apr. 15.
- Rogers, Edward E., Bexley, Ohio, assignor to Curtiss-Wright Corporation. Venturi fitting. 2,428,585; Oct. 7.
- Rogers, Edwin J.: *See—*  
Austin, Chester R., and Rogers.
- Rogers, George D., U. S. Army, Dover, N. J. Explosive rivet. 2,429,239; Oct. 21.
- Rogers, Harry, Bakersfield, and W. F. Mellen, Whittier, Calif. Two-way plow. 2,424,192; July 15.
- Rogers, Hiram M., Springfield, Mass., assignor to Gulf Oil Corporation, Pittsburgh, Pa. Demonstrating device. 2,419,658; Apr. 29.
- Rogers, James T., assignor to Rogers Manufacturing Company, Inc., Nashville, Tenn. Hauling vehicle. 2,425,953; Aug. 19.
- Rogers, Jesse J., Duluth, Minn. Sled attachment for baby carriages. 2,428,994; Oct. 14.
- Rogers, Leonard M.: *See—*  
Sanderson, Kenneth E., and Rogers.
- Rogers, John B., Pasadena, Md. Feeding granular materials into a head of pressure. 2,428,995; Oct. 14.
- Rogers Manufacturing Company, assignee: *See—*  
Rogers, James T.
- Rogers, Maurice A. T.: *See—*  
Goodings, Eric P., and Rogers.
- Rogers, Maurice A. T., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Di-carbamates and making the same. 2,431,140; Nov. 18.
- Rogers, Ralph F., Burlington, Iowa. Power-driven hand cultivator. 2,433,709; Dec. 30.
- Rogers, William C., Weston, Vt. Radio receiver and the like. 2,429,370; Oct. 21.
- Rogers, Robert L.: *See—*  
Pitre, Antonio S., Lanier, Maloof, and Rogers.
- Rogers, Robert S., Jr., Cheraw, S. C. Log handling apparatus. 2,418,726; Apr. 8.
- Rogers, Stuart M., Syracuse, assignor to The Solvay Process Company, New York, N. Y. Bleaching cotton. 2,417,570; Mar. 18.
- Rogers, Walter E.: *See—*  
Nye, Norman H., and Rogers.
- Rogers, Thomas H., Jr., and R. D. Vickers, assignors to Wingfoot Corporation, Akron, Ohio. Vinylidene chloride-vinyl chloride copolymer cured with an aryl guanidine. 2,419,166; Apr. 15.
- Rogers, Thomas H., Jr., and Robert D. Vickers, assignors to Wingfoot Corporation, Akron, Ohio. Thermosetting composition containing vinyl chloride-vinylidene chloride copolymer. 2,421,852; June 10.



- Rogers, Thomas H., R. W. Watson, and J. W. Starrett, assignors to Standard Oil Company, Chicago, Ill. Lubricant. 2,422,585; June 17.
- Rogers, William J., Maspeth, N. Y. Exercising device. 2,414,063; Jan. 7.
- Roggenstein, Edwin O.: *See*—  
Kelley, Walter F., and Roggenstein.
- Rogne, Conrad O., Jr.: *See*—  
Biddle, Frank W., and Rogne.
- Rogoff, Julian, New Rochelle, N. Y., assignor to Burndy Engineering Company, Inc. Current limiter. 2,426,523; Aug. 26.
- Rogoff, Julian, New Rochelle, N. Y., assignor to Burndy Engineering Company, Inc. Matched fuse for multi-circuits. 2,426,844; Sept. 2.
- Rogoff, Julian, New Rochelle, N. Y., assignor to Burndy Engineering Company, Inc. Cable end sealing device. 2,426,845; Sept. 2.
- Rogoff, Julian, New Rochelle, N. Y., assignor to Burndy Engineering Company, Inc. Pressed insulated connector. 2,429,585; Oct. 21.
- Rogoff, Julian, New Rochelle, and I. F. Matthyse, New York, N. Y., assignors to Burndy Engineering Company, Inc. Portable compressing tool and detachable press. 2,424,849; July 29.
- Rohling, William J., Los Angeles, Calif. Plumbing trap having means for clearing the same of stoppage. 2,422,801; June 24.
- Rohlm Manufacturing Company, Incorporated, assignee: *See*—  
Dunnihoo, John R.
- Röhm & Haas Company, assignee: *See*—  
Brunson, Herman A., and Butler.  
Butterbaugh, Darrel J., and Spence.  
Hager, Onslow B., and Bock.  
Hester, William F., and Craig.  
Houk, Alva L.  
Hurd, Loren C., and Van Horne.  
Neher, Harry T., and Woodward.  
Pearson, Henry F.  
Radford, George S., and Hurd.  
Spence, Le Roy U., and Butterbaugh.
- Rohner, Leonard V., Syracuse, and A. P. Wood, Geddes, assignors to The Solvay Process Company, New York, N. Y. Producing fertilizers containing insoluble nitrogen. 2,415,705; Feb. 11.
- Rohner, Traugott, Evanston, Ill. Peg for stringed instruments. 2,421,715; June 3.
- Rohr Aircraft Corporation, assignee: *See*—  
Gross, Bernard.
- Roig, Juan E., Barcelona, Spain. Picker-stick driving mechanism for looms. 2,420,841; May 20.
- Roland, John R.: *See*—  
Brubaker, Merlin M., Roland, and Peterson.
- Rolapp, Frank H.: *See*—  
Champer, Leon E.
- Rolapp, Frank H., assignee: *See*—  
Champer, Leon E.
- Roland, John R.: *See*—  
Coffman, Donald D., and Roland.
- Roland, John R., and J. Harmon, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Reaction of ethylene with organic carboxylic acids. 2,433,015; Dec. 23.
- Rolenberg, Anthony, assignee, et al.: *See*—  
Bartho, John C.
- Roles, Duane, Toledo, Oreg. Flexible arch support. 2,428,244; Sept. 30.
- Rolfes, Fritz H., Johannesburg, Union of South Africa. Clip for holding detonators in blasting cartridges. 2,423,255; July 1.
- Rolland, Guy F., McKeanburg, Pa., assignor to Atlas Powder Company, Wilmington, Del. Compound detonator. 2,422,043; June 10.
- Rollaway Equipment Company, assignee: *See*—  
Smith, Adrian J., and Evans.
- Roller, James A., Dayton, Ohio. Weed remover. 2,422,929; June 24.
- Rolling Fabriksaktiebolag, assignee: *See*—  
Carlsson, John I.
- Rollins, Elizabeth D.: *See*—  
McGuire, Philip J., Brittain, and Rollins.
- Rollius, Karl: *See*—  
Adams, Douglas D., and Rollius.
- Rollman, Walter F., Cranford, N. J., assignor to Standard Oil Development Company. Production of phthalic acid. 2,416,350; Feb. 25.
- Rollmann, Ernst, Philadelphia, Pa. Apparatus and process for the manufacture of footwear. 2,432,174; Dec. 9.
- Roll-O-Matic Corporation, The, assignee: *See*—  
Eddy, Glen M.
- Rolls-Royce Limited, assignee: *See*—  
Griffith, Alan A.
- Rolph, Thomas W., Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y. Luminaire. 2,418,195; Apr. 1.
- Roman, Alfred F., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Photoelectron multiplier. 2,424,850; July 29.
- Roman, Alfred F., Fort Wayne, Ind., assignor to Farnsworth Television & Radio Corporation. Phototube multiplier. 2,429,772; Oct. 28.
- Roman, John J., East Hartford, Conn. Heel lift attachment plate. 2,428,245; Sept. 30.
- Romander, Hugo, North Caldwell, assignor to Federal Telegraph Company, Newark, N. J. Modulator distortion correction. 2,429,649; Oct. 28.
- Romanet, Colette, assignee: *See*—  
Farish, Edward A.
- Romanik, William, Millville, N. J. Agricultural machine for harvesting spinach. 2,429,371; Oct. 21.
- Romano, Matthew J.: *See*—  
Schultz, Oswald R., Nestle, and Romano.
- Romanow, Frank F.: *See*—  
Black, Robert, Jr., and Romanow.  
Black, Robert, Jr., Romanow, and Shann.
- Romanowski, Rose M. and S., Newark, N. J. Diaper garment. 2,433,017; Dec. 23.
- Romanowski, Stanley: *See*—  
Romanowski, Rose M. and S.
- Romec Pump Company, assignee: *See*—  
Aspelin, Leslie L.
- Romick, Kenneth M., assignor to American Anode Inc., Akron, Ohio. Manufacture of rubber goods from latex. 2,414,610; Jan. 21.
- Romick, Kenneth M., assignor to American Anode Inc., Akron, Ohio. Manufacture of rubber goods from latex. 2,414,611; Jan. 21.
- Rompere, Gerard J., Waterbury, assignor to The Autoyre Company, Incorporated, Oakville, Conn. One-piece sheet metal shelf bracket. 2,429,586; Oct. 21.
- Ronay, Bela: *See*—  
Bloom, Ralph, Jr., Klemgard, Ronay, and Miller.
- Ronay, Bela, Annapolis, Md. Adjustable electrode holder. 2,433,018; Dec. 23.
- Ronci, Victor L.: *See*—  
Clark, James E., and Ronci.  
Glass, Myron S., Ronci, and Walsh.  
Hale, Douglas A. S., and Ronci.  
Laico, Joseph P., and Ronci.
- Ronfeldt, Henry C., assignor to Toledo Stamping and Manufacturing Company, Toledo, Ohio. Engine rocker arm. 2,425,394; Aug. 12.
- Ronfeldt, Henry C., assignor to Toledo Stamping and Manufacturing Company, Toledo, Ohio. Mower guard. 2,431,509; Nov. 25.
- Ronk, George T., Cedar Rapids, Iowa. Transport trailer. 2,415,706; Feb. 11.
- Ronning, Martin, St. Louis Park, assignor to Minneapolis-Moline Power Implement Company, Minneapolis, Minn. Crop conveyor mechanism. 2,421,037; May 27.
- Ronning, Martin, St. Louis Park, and K. M. Keith, Minneapolis, assignors to Minneapolis-Moline Power Implement Company, Minneapolis, Minn. Tractor mower. 2,422,044; June 10.
- Ronson Art Metal Works, Inc., assignee: *See*—  
Aronson, Alexander H.
- Roof, Raymond L., Paducah, Ky. Dental unit. 2,419,370; Apr. 22.
- Rooker, William A., assignor to National Fruit Products Company, Inc., Winchester, Va. Making fermented juice products. 2,419,286; Apr. 22.
- Roon, Leo, South Orange, assignor to Nuodex Products Co., Inc., Elizabeth, N. J. Preparing copper fungicide solutions. 2,423,619; July 8.
- Rooney, John T., Buffalo, N. Y., assignor, by mesne assignments, to American Optical Company, Southbridge, Mass. Adhesive for joining optical elements. 2,421,436; June 3.
- Roop, Elston A.: *See*—  
Babbitt, John F., and Roop.
- Roos, Delmar G., assignor to Willys-Overland Motors, Inc., Toledo, Ohio. Rear axle drive assembly. 2,417,214; Mar. 11.
- Roos, Delmar G., assignor to Willys-Overland Motors, Inc., Toledo, Ohio. Drive axle construction for independently sprung wheels. 2,417,325; Mar. 11.
- Roos, Delmar G., assignor to Willys-Overland Motors, Inc., Toledo, Ohio. System and apparatus for operating submerged internal-combustion engines. 2,429,732; Oct. 28.
- Roos, Wendel V., New York, N. Y.; W. L. Roos, administrator of said W. V. Roos, deceased. End-sealed thermoplastic container body. 2,430,995; Nov. 18.
- Roos, William L., administrator: *See*—  
Roos, Wendel V.
- Roosa, Vernon D.: *See*—  
Molyneux, Cecil P., and Roosa.
- Roose, John I., Los Angeles, Calif. Plumb bob. 2,420,093; May 6.
- Roosen, H. D., Company, Inc., assignee: *See*—  
Bernstein, Isidor M.
- Roosenstein, Hans O., Berlin, Germany; vested in the Attorney General of the United States. Arrangement adapted to suppress radio frequency currents on conductors. 2,419,855; Apr. 29.
- Roosevelt, Gilferd, Albion, Ill. Hemming attachment for sewing machines. 2,432,588; Dec. 16.
- Root, Charles F., assignor to The Chandler & Price Company, Cleveland, Ohio. Inking mechanism for printing presses. 2,424,902; July 29.
- Root, Charles F., assignor to The Chandler & Price Company, Cleveland, Ohio. Inking mechanism for platen printing presses. 2,424,903; July 29.
- Root, John J., New York, N. Y. Electric phonograph resistance type pickup. 2,429,137; Oct. 14.



- Root, Marshall J., Jr., assignor to Shuron Optical Company, Inc., Geneva, N. Y. Spectacle case. 2,433,483; Dec. 30.
- Root, Ralph R., Lakewood, Ohio, assignor, by mesne assignments, to Naco Manufacturing Company, Huntington Park, Calif. Dusting apparatus. 2,429,773; Oct. 28.
- Root, William A., Huntington Park, Calif. Fruit jar lifter. 2,425,395; Aug. 12.
- Roovers Bros., Inc., assignee: *See*—Payne Paul D.
- Roper, Charles G., Bridgeport, assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn. Cycle stop power mechanism. 2,430,619; Nov. 11.
- Rory, Robert, East Greenwich, R. I. Metallizing machine. 2,424,418; July 22.
- Rosa, Leonard J., Detroit, Mich. Accessory for fishing rods. 2,424,419; July 22.
- Rosa, Pete, Oakland, Calif. Plumber's tool. 2,413,997; Jan. 7.
- Rosaire, Esme E., assignee: *See*—Horvitz, Leo.
- Rosales, Joseph G., assignor to The Garrett Corporation, Airesearch Manufacturing Company Division, Los Angeles, Calif. Method for assembling heat exchangers having flattened tubes. 2,417,661; Mar. 18.
- Rosales, Joseph G., assignor to The Garrett Corporation, Airesearch Manufacturing Company Division, Los Angeles, Calif. Brazing aluminum. 2,417,662; Mar. 18.
- Rosch, Samuel J., Yonkers, N. Y., assignor to Anaconda Wire and Cable Company. Heat-resistant electric insulation comprising rubber and chlorinated diphenyls. 2,416,955; Mar. 4.
- Rosche, John O., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Thermostatic switch. 2,431,771; Dec. 2.
- Rose, Bennie A.: *See*—Criner, Harry E., and Rose.
- Rose, Edward H., assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Internal screw thread and diameter gauge. 2,427,924; Sept. 23.
- Rose, Ernest H.: *See*—Sproule, William K., Harcourt, and Rose.
- Rose, Francis L.: *See*—Curd, Francis H. S., Raison, and Rose.  
Curd, Francis H. S., and Rose.
- Rose, Francis L., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Water soluble salts of N,N'-Di-(sulfoalkyl)-4,4'-diaminodiphenylsulfones and preparation. 2,425,396; Aug. 12.
- Rose Gear & Tool Company, assignee: *See*—Creson, William K., and Knight.
- Rose, George W., Los Angeles, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Machine worktable having magnetic clamp means. 2,421,716; June 3.
- Rose, Herbert A.: *See*—Boyer, John L., and Rose.
- Rose, Herbert A., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Vapor electric device. 2,426,054; Aug. 19.
- Rose, Herbert A., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Vapor-electric device. 2,428,586; Oct. 7.
- Rose, Herbert A., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Vapor-electric device. 2,428,587; Oct. 7.
- Rose, Howard E., Normandy, assignor to Alco Valve Company, University City, Mo. Brake valve. 2,424,331; July 22.
- Rose, Howard E., Peninsula, Ohio, assignor to Alco Valve Company, University City, Mo. Pump construction. 2,424,332; July 22.
- Rose, Howard E., Peninsula, Ohio, assignor to Alco Valve Company, University City, Mo. Deep well pumper. 2,429,947; Oct. 28.
- Rose, Joseph K., Chicago, Ill. Light shield for television receiver. 2,431,830; Dec. 2.
- Rose, Joseph P., Ulster County, assignor to F. L. Russell Corporation, Saugerties, N. Y. Bound book. 2,423,817; July 8.
- Rose, Paul R.: *See*—Walter, Harold J., and Rose.
- Rose, Paul R., East Orange, N. J. Warp drier with air recirculating means. 2,426,415; Aug. 26.
- Rose, Raymond H.: *See*—Leek, George H., and Rose.
- Rosedale Knitting Company, assignee, et al.: *See*—Zesch, Eugene M.
- Roselund, Harold A., assignor to The De Vilbiss Company, Toledo, Ohio. Rotary nozzle for use in pan greasing machines. 2,415,194; Feb. 4.
- Roselund, Harold A., assignor to The De Vilbiss Company, Toledo, Ohio. Fog generator. 2,426,846; Sept. 2.
- Roseman, Leo, Newark, N. J. Belt for garters and sanitary pads. 2,425,397; Aug. 12.
- Rosen, Isidore S.: *See*—Raiff, Andrew, S. S. and V. G. Robbins, and Rosen.
- Rosen, Leo, U. S. Army, Arlington County, Va. Cryptographic machine. 2,425,006; Aug. 5.
- Rosen, Norman J.: *See*—Hanna, Raymond P., and Rosen.
- Rosenbach, Johann: *See*—Balle, Gerhard, Rosenbach, and Orthner.
- Rosenbarger, Clifford W., Indianapolis, Ind. Antislip attachment for shoes. 2,426,524; Aug. 26.
- Rosenberg, Max: *See*—Cohen, Samuel Z., and Rosenberg.
- Rosenberg, Philip: *See*—Lawton, Maxwell, and Rosenberg.
- Rosenberg, Solomon, Los Angeles, Calif. Garment hanger. 2,425,829; Aug. 19.
- Rosenberger, Albert J., assignor to Republic Flow Meters Company, Chicago, Ill. Lever mounting arrangement for pressure responsive measuring instruments. 2,431,200; Nov. 18.
- Rosenblatt, David, North Carlton, Australia. Chuck and means for attaching tools thereto. 2,416,774; Mar. 4.
- Rosenblatt, Edgar F., East Orange, and L. Pollen, Unionville, assignors to Baker & Company, Inc., Newark, N. J. Oxidizing sulfur dioxide to sulfur trioxide. 2,418,851; Apr. 15.
- Rosencrans, Charles A., Haddonfield, N. J., assignor to Radio Corporation of America. Ultra high frequency electron discharge device circuit. 2,419,793; Apr. 29.
- Rosencranse, Charles R., assignor of fifty per cent to J. F. Klauer, Jr., Pittsburg, Kans. Asphalt emulsions for treatment of coal and preparing the same. 2,431,891; Dec. 2.
- Rosendale, Robert W., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric welding metals to different electrical resistivities. 2,432,631; Dec. 16.
- Rosenfeld, L., & Co., Inc., assignee: *See*—Willenbacher, August.
- Rosenfeld, Paul W., London, assignor to Meridian Clock Co. (Gt. Britain) Limited, London, E. C. 2, England. Electrically operated winding means for spring-actuated clocks. 2,420,097; May 6.
- Rosenkrans, Frank A.: *See*—McNairy, Jacob W., Rosenkrans, and Coombs.
- Rosenston, David, Chicago, and C. W. Yant, Westchester, assignors to Crane Co., Chicago, Ill. Indicator. 2,418,727; Apr. 8.
- Rosenthal, Adolph H., New York, N. Y. System for superimposing the taking of moving pictures. 2,420,197; May 6.
- Rosenthal, Adolph H., assignor to Scopophony Corporation of America, New York, N. Y. Two-way television communication unit. 2,420,198; May 6.
- Rosenthal, Arnold J.: *See*—Haney, Clifford L., Martin, and Rosenthal.
- Rosenthal, Daniel, Brooklyn, N. Y. Synthetic gem composition and method. 2,425,954; Aug. 19.
- Rosenthal, Nathan, assignor to Rosenthal Paper Company, St. Louis, Mo. Folding display box. 2,414,671; Jan. 21.
- Rosenthal Paper Company, assignee: *See*—Rosenthal, Nathan.
- Rosenthal, Sidney, Richmond Hill, N. Y. Fountain pen. 2,416,596; Feb. 25.
- Rosenzweig, Henry G., Kirkwood, assignor to Endicott Johnson Corporation, Endicott, N. Y. Stitchdown shoe. 2,416,847; Mar. 4.
- Roshong, Raymond G., Los Angeles, Calif., assignor to Crane Packing Company, Chicago, Ill. Liquid cooled seal. 2,432,684; Dec. 16.
- Rosin, Jacob, D. and S. Josephowitz, New York, N. Y. Preparing dimethylurea. 2,414,211; Jan. 14.
- Rosing, Theodore F.: *See*—Kuhn, Clarence A., and Rosing.
- Roske, Milton H., Malden, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Seam pressing machine. 2,419,594; Apr. 29.
- Roske, Milton H., Malden, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Pressing seams formed in shoe parts. 2,419,595; Apr. 29.
- Roslund, John, assignor to Asten-Hill Mfg. Co., Philadelphia, Pa. Drier felt seam securing strip and seam formed therewith. 2,428,097; Sept. 30.
- Rosmait, John A., Appleton, assignor to D. J. Murray Manufacturing Co., Wausau, Wis. Core grinder. 2,414,560; Jan. 21.
- Ross Carrier Company, The, assignee: *See*—Barr, Walter A.
- Ross, Claude M., Mitchell, S. Dak., assignor to American Telephone and Telegraph Company. Testing insulation. 2,414,612; Jan. 21.
- Ross, Donald W., Washington, Pa. Drying of porous masses. 2,431,201; Nov. 18.
- Ross, Elliott P., Forest Hills, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Torpedo director. 2,413,846; Jan. 7.
- Ross, Elliott P., Forest Hills, and H. S. Marsh, Great Neck, assignors to Ford Instrument Company, Inc., Long Island City, N. Y. Computing instrument. 2,413,847; Jan. 7.
- Ross, Elmer R., assignor to Solar Aircraft Company, San Diego, Calif. Adjustable-electrode arc-welding torch. 2,425,830; Aug. 19.
- Ross, James F., Laredo, Tex. Hydro pneumatic well pumping system. 2,414,979; Jan. 28.
- Ross, John: *See*—Dreger, Emil E., and Ross.  
Gebhart, Arthur I., and Ross.



- Ross, John, Manhasset, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Production of sulfonyl chlorides from olefins. 2,420,383; May 13.
- Ross, John, Ramsey, and D. J. Potter, Allendale, assignors to Colgate-Palmolive-Peet Company, Jersey City, N. J. Solvent extraction of organic sulphonyl halides. 2,424,420; July 22.
- Ross, Kenneth B., Chicago, Ill. Apparatus for finishing piezoelectric crystals. 2,416,716; Mar. 4.
- Ross, Kenneth B., Chicago, Ill. Finishing piezoelectric crystals. 2,417,179; Mar. 11.
- Ross, Matthew, Rego Park, assignor to Hi-Seat Corporation, New York, N. Y. Child's seating attachment. 2,432,936; Dec. 16.
- Ross, Orval A.: *See*—  
Lowe, Paul E., and Ross.
- Ross, Sydney E., assignor to Hart-Carter Company, Peoria, Ill. Adjustable bar sieve for threshers. 2,428,294; Sept. 30.
- Ross, William E.: *See*—  
Crawford, Chester C., Ross, and McAllister.  
McAllister, Sumner H., Crawford, and Ross.
- Ross, William E., Berkeley, and P. Pezzaglia, Oakland, assignors to Shell Development Company, San Francisco, Calif. Cycloparaffin production. 2,415,065; Jan. 28.
- Ross, William E., Berkeley, and P. Pezzaglia, Oakland, assignors to Shell Development Company, San Francisco, Calif. Cycloparaffin production. 2,415,066; Jan. 28.
- Ross, William E., Berkeley, and G. J. Carlson, El Cerrito, assignors to Shell Development Company, San Francisco, Calif. Purification of metal halide catalyst in catalytic hydrocarbon conversions. 2,421,524; June 3.
- Ross, William P. V.: *See*—  
Blackley, James L., and Ross.
- Rossander, Swanie S., and C. E. Sparks, Wilmington, Del., and J. W. Libby, Jr., Louisville, Ky., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Direct azo dyes containing 3,5 dihydroxy benzoylamino groups. 2,416,547; Feb. 25.
- Rossi, Irving, assignee: *See*—  
Spooner, Henry W.
- Rossman, Clarence A., assignee, et al.: *See*—  
Schwartz, John L.
- Rossman, Edwin F., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Shock absorber. 2,431,966; Dec. 2.
- Rossman, Edwin F., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Shock absorber. 2,432,937; Dec. 16.
- Rost, Helge F., Djursholm, K. H. Thunell, Nockeby, S. D. Vigen, Stockholm, and P. H. E. Claesson, Jakobsberg, Sweden. Stabilizing means for the control of a frequency modulated ultrashort wave transmitter. 2,420,264; May 6.
- Rost, Helge F., Djursholm, K. H. Thunell, Nockeby, S. D. Vigen, Stockholm, and P. H. E. Claesson, Jakobsberg, Sweden. Self-steering device. 2,424,193; July 15.
- Rotary Research Corporation, assignee: *See*—  
Platt, Haviland H.
- Rotax Limited, assignee: *See*—  
Millins, Terence W.
- Roters, Herbert C., Roslyn, N. Y., assignor to Castner Patents, Inc. Alternating-current dynamoelectric machine. 2,423,345; July 1.
- Roth, Bert W.: *See*—  
Unkles, Edward H., Roth, and Whitney.
- Roth, Dennis D., assignor of one-half to D. Eckel, Philadelphia, Pa. Child's vehicle. 2,414,244; Jan. 14.
- Roth, Jay M., Euclid, Ohio, assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Unloading valve. 2,429,489; Oct. 21.
- Roth, Jay M., Euclid, Ohio, assignor to Borg-Warner Corporation, Chicago, Ill. Movable vane variable displacement pump. 2,433,484; Dec. 30.
- Roth, Jay M., Euclid, and J. A. Lauck, South Euclid, Ohio, assignors, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Pump with pressure loaded bushing. 2,420,622; May 13.
- Roth, Louis, Du Bois, and J. M. Schnaus, Jasper, Ind. Abrasive belt machine. 2,421,289; May 27.
- Roth, Warren D., L. C. Brown, and G. W. Phelps, Chicago, Ill., assignors to Industrial Patents Corporation. Method of manufacturing ice cream and the product thereof. Re. 22,858; Mar. 25.
- Rothbart, Arthur, Brooklyn, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Pulse radar system. 2,428,038; Sept. 30.
- Rothchild, Irving, and H. La Faille, Springfield, Mass. Sectional printer's chase. 2,433,485; Dec. 30.
- Rothe, George, Council Bluffs, Iowa. Belt cutting, punching, and grooving device. 2,428,742; Oct. 7.
- Rothe, Hugo F., Trenton, Mich. Aerial projectile game. 2,417,615; Mar. 18.
- Rothe, Walter F., Washington, D. C. Letter box. 2,421,221; May 27.
- Rothery, James S., Ilford, England. Lifting jack. 2,416,848; Mar. 4.
- Rothery, James S., Ilford, England. Hydraulic ram. 2,432,076; Dec. 2.
- Rothman, Max I., Hollis, and W. H. Neiman, Sea Cliff, N. Y.; said Rothman assignor of his right to the Government of the United States of America, as represented by the Secretary of War. Pulse delay circuits. 2,429,844; Oct. 28.
- Rothrock, Henry S.: *See*—  
Pratt, Burt C., and Rothrock.
- Rothrock, Henry S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making varnishes from polyhydric alcohol mixed esters of  $\beta$ -furylacrylic acid and an acidic natural resin. 2,425,756; Aug. 19.
- Rothrock, Henry S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Resin modified N-alkoxymethyl polyamide and obtaining the same. 2,430,950; Nov. 18.
- Rothstein, Herman, New York, N. Y. Adjustable mold holder. 2,418,852; Apr. 15.
- Rothwell, Ernest, Rochdale, assignor to Chas. F. Thackray, Limited, Leeds, England. Continuous sterile water supply system. 2,417,950; Mar. 25.
- Rotol Limited, assignee: *See*—  
Coverley, Robert H., and Arnott.  
Mapp, Alfred G.  
Milner, Harry L.
- Rotomat Corporation, The, assignee: *See*—  
Stewart, James E.
- Rotor Tool Company, The, assignee: *See*—  
Sturrock, James.
- Rototiller, Inc., assignee: *See*—  
Kelsey, Cadwallader W.
- Rouault, George F.: *See*—  
Smith, Lee L., and Rouault.
- Rouault, George F., Whiting, Ind., assignor to Standard Oil Company, Chicago, Ill. Corrosion inhibiting compositions. 2,430,951; Nov. 18.
- Rouch, Clayton D., Livonia, N. Y. Boot upper with shaped upper edge. 2,425,955; Aug. 19.
- Rougas, Jon N., Brigham, Utah. Paper roll holder. 2,422,749; June 24.
- Rougemont, René L., assignor to Reed-Prentice Corporation, Worcester, Mass. Automatic way guard for machine tools. 2,430,827; Nov. 11.
- Rouleau, Wilfred J., Quincy, Mass. Compressor. 2,420,098; May 6.
- Roumillat, Carl H., Atlantic Beach, Fla. Collapsible carrier or tray. 2,414,332; Jan. 14.
- Round California Chain Corp., Ltd., assignee: *See*—  
Roberston, Charles A.
- Round, David, & Son, assignee: *See*—  
Martin, Charles C.
- Roung, Walter A., Bangor, Mich. Christmas tree holder and display device. 2,416,802; Mar. 4.
- Rous, Bernard, New York, N. Y. Shell. 2,414,898; Jan. 28.
- Rouse, John H., Los Angeles, Calif. Motor control means. 2,425,007; Aug. 5.
- Rousseau, Claude, Montmagny, Quebec, Canada. Hook conveyor. 2,424,055; July 15.
- Rout, Alfred E., Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited. Nitration of aromatic hydrocarbons. 2,431,585; Nov. 25.
- Rouy, Auguste L. M. A., New York, N. Y. Cooling an internal-combustion engine. 2,417,448; Mar. 18.
- Rowand, Will H.: *See*—  
Coykendall, Leon H., and Rowand.  
Smith, Charles S., and Rowand.
- Rowand, Will H., Madison, and L. B. Schueler and P. R. Loughin, Westfield, assignors to The Babcock & Wilcox Company, Newark, N. J. Attenuator. 2,421,761; June 10.
- Rowe, George A.: *See*—  
Haddock, Norman H., Jones, Parkinson, and Rowe.  
Haddock, Norman H., Parkinson, and Rowe.
- Rowe, Mark E.: *See*—  
Wiegand, Francis J., Stark, and Rowe.
- Rowe, Martin L.: *See*—  
Vining, Willard F., and Rowe.
- Rowe, Vernon: *See*—  
Kay, Oscar C., and Rowe.
- Rowe, William W., Cincinnati, Ohio, assignor to Cincinnati Industries, Inc. Creping corrugated papers. 2,425,207; Aug. 5.
- Rowen, Benjamin R., assignee: *See*—  
Kline, Glen E.
- Rowland, Thomas C. E.: *See*—  
Parker, Harry, and Rowland.
- Rowntree, Joseph S., Radnage, near High Wycombe, England. Still with vapor separator. 2,423,205; July 1.
- Roxberg, Arvid E., Minneapolis, Minn. Pitman. 2,428,743; Oct. 7.
- Roy, Albert and A. Lawrence, Mass. Moistening device for sole cutting machines. 2,419,794; Apr. 29.
- Roy, Armand: *See*—  
Roy, Albert and A.
- Roy, Joseph H., Trenton, N. J. Mechanism for aligning the edges of sheet material. 2,413,891; Jan. 7.
- Roy, Nereus H., Glenbrook, Conn., assignor, by mesne assignments, to Waugh Equipment Company, New York, N. Y. Strain measuring apparatus. 2,428,433; Oct. 7.
- Royak, Louis, New York, N. Y. Combined window and screen. 2,432,808; Dec. 16.
- Royal Electric Company, Inc., assignee: *See*—  
Bryant, Frank D.



- Royal, Thomas M., & Co., assignee: *See*—  
Volskendorf, Hans.
- Royal Typewriter Company, Inc., assignee: *See*—  
Myers, Lewis C.
- Royce, Harvey D., assignor to The Southern Cotton Oil Company, Savannah, Ga. Improvement in winter vegetable oils. 2,418,668; Apr. 8.
- Royden, George T., South Orange, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Radio navigational apparatus. 2,425,008; Aug. 5.
- Royden, George T., South Orange, N. J., assignor to Federal Telephone and Radio Corporation. Feedback amplifier. 2,428,039; Sept. 30.
- Royer, Arthur G., East Cleveland, assignor to Harris-Seybold Company, Cleveland, Ohio. Water fountain. 2,425,643; Aug. 12.
- Royer, George L., North Plainfield, and C. A. Amick, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Dyeing nitrogenous fibers with pre-metalized dyes and aldehydes. 2,422,586; June 17.
- Royer, William R., Wilkes-Barre, Pa. Tire chain. 2,431,709; Dec. 2.
- Royle, Edwin B., assignor to The Elmco Corporation, Salt Lake City, Utah. Transport loader. 2,429,170; Oct. 14.
- Royster, Percy H., Montclair, N. J. Producing ferro-silicon. 2,420,564; May 13.
- Rozanek, Charles: *See*—  
Lubbert, Carl B., and Rozanek.
- Rozanek, Charles, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Molding apparatus. 2,425,831; Aug. 19.
- Rozas, Luis A. V., Cuzco, Peru. Copyholder for holding books or sheets. 2,433,159; Dec. 23.
- Rozner, Joseph J., assignor to Aetna Ball & Roller Bearing Co., Chicago, Ill. Needle bearing. 2,418,196; Apr. 1.
- Ruau, Félix F.: *See*—  
Molins, Desmond W., and Ruau.
- Ruau, Félix F., Deptford, London, S. E. 8, assignor to Molins Machine Company, Limited, Deptford, London, England. Apparatus for feeding cut tobacco. 2,416,020; Feb. 18.
- Ruau, Félix F., Deptford, London, S. E. 8, assignor to Molins Machine Company, Limited, Deptford, London, England. Rod forming mechanism. 2,432,938; Dec. 16.
- Rubane, Charles, Chicago, Ill. Time controlled container. 2,415,911; Feb. 18.
- Rubatex Products, Inc., assignee: *See*—  
Cooper, Alfred.  
Cooper, Lester, and Pfeumer.  
Pfeumer, Hans.
- Ruben, Charles F., assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. 2,423,996; July 15.
- Ruben, Samuel, assignee: *See*—  
Smith, Cleveland S.  
Smith, Cleveland S., Jr., and Blumenthal.  
Williams, Fred D., Jr.
- Ruben, Samuel, New Rochelle, N. Y. Alkaline dry cell. 2,422,045; June 10.
- Ruben, Samuel, New Rochelle, N. Y. Alkaline dry cell. 2,422,046; June 10.
- Ruben, Samuel, New Rochelle, N. Y. Treatment of regenerated sheet cellulose to improve its dielectric properties. 2,424,904; July 29.
- Rubey, Arthur C., Jr.: *See*—  
Hamilton, Julian P., and Rubey.
- Rubin, Abraham B., and G. A. Faber, Millersburg, Pa., assignors, by mesne assignments, to Columbia Development Company, Last. 2,423,566; July 8.
- Rubin, Charles F., Fort Worth, Tex., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Mounting bearings in plates. 2,427,072; Sept. 9.
- Rubin, Paul, Shamokin, Pa. Tire inflation indicator valve cap. 2,417,449; Mar. 18.
- Rubloff, Mark: *See*—  
Artzt, William, and Rubloff.
- Rubinstein, David: *See*—  
Mark, Jacob G., and Rubinstein.  
Young, Harland H., and Rubinstein.
- Rubinstein, Isaac, Brooklyn, N. Y. Manufacture of filling for bedding. 2,419,732; Apr. 29.
- Rubissow, George A., New York, N. Y. Gate for centrifugal casting molds. 2,417,663; Mar. 18.
- Rubissow, George A., New York, N. Y. Centrifugal casting apparatus. 2,428,434; Oct. 7.
- Rubissow, George A., New York, N. Y. Gyrocasting apparatus. 2,433,065; Dec. 23.
- Rudd, Harry B., Flushing, N. Y. Stick arrangement. 2,414,245; Jan. 14.
- Ruddies, George F., Chicago, Ill. Producing tetraethyl lead. 2,415,444; Feb. 11.
- Ruddock McCaffrey Tagline Corporation, The, assignee: *See*—  
Ruddock, William.
- Ruddock, William, assignee, et al.: *See*—  
Coleman, Clarence C.
- Ruddock, William, South Pasadena, assignor, by mesne assignments, to The McCaffrey Ruddock Tagline Corporation, Los Angeles, Calif. Cable guiding means for material handling apparatus. 2,413,787; Jan. 7.
- Ruddock, William, South Pasadena, assignor to The McCaffrey Ruddock Tagline Corporation, Los Angeles, Calif. Collector ring and brush assembly. 2,416,498; Feb. 25.
- Ruddy, Arlo W.: *See*—  
Suter, Chester, and Ruddy.
- Rudolf, Hyman, Santa Fe, N. Mex., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Polymeric peroxides of acetyl acetone. 2,424,851; July 29.
- Rudolph, Herman J., Glovis, N. Mex., assignor to Phillips Petroleum Company. Vibration absorber. 2,429,297; Oct. 21.
- Rudolph Wurlitzer Company, The, assignee: *See*—  
Crawford, Frederick G., and Stroschein.  
Socin, Francis C.  
Sperry, Ralph W. E.  
Walt, Albert J.
- Rudy, Harry E., Detroit, Mich. Window pane and the like. 2,419,287; Apr. 22.
- Rue, Harold E., Wauwatosa, assignor to Pabst Brewing Company, Milwaukee, Wis. Plastic bottle crowner. 2,422,750; June 24.
- Ruedrich, Paul M., Berkeley, Calif., assignor to Griffin Chemical Company. Composition of matter, its preparation and utilization. 2,428,340; Sept. 30.
- Ruegg, Rudolf, assignor to Aktiengesellschaft Fuer Technische Studien, Zurich, Switzerland. Furnace having sequentially arranged gas heating tubes. 2,419,463; Apr. 22.
- Ruegg, Rudolf, assignor to Aktiengesellschaft Fuer Technische Studien, Zurich, Switzerland. Combined air heater for hot-air turbine and blast furnace. 2,422,131; June 10.
- Ruegg, Rudolf, assignor to Aktiengesellschaft Fuer Technische Studien, Zurich, Switzerland. Ramified tubular gas heater. 2,423,997; July 15.
- Ruess, Max E.: *See*—  
Vilter, Ernest F., Michener, Kraatz, Ruess, and Bach.
- Ruetsch, Fred C., assignor to Columbia Electric and Manufacturing Company, Spokane, Wash. Mailbox. 2,414,613; Jan. 21.
- Ruetschi, Arnold, assignor to The Warner & Swasey Company, Cleveland, Ohio. Machine tool. 2,423,904; July 15.
- Ruf, Robert, Chicago, Ill. Musical string instrument. 2,429,138; Oct. 14.
- Ruff, Alonzo W., assignor to York-Shipley, Inc., York, Pa. Engine warming apparatus. 2,418,097; Mar. 25.
- Ruff, Alonzo W., assignor to York-Shipley, Inc., York, Pa. Fuel control mechanism for fog generating machines. 2,418,098; Mar. 25.
- Ruge, Arthur C., Cambridge, Mass., assignor to The Baldwin Locomotive Works. Instantaneous recorder. 2,416,276; Feb. 18.
- Ruge, Arthur C., Cambridge, Mass., assignor to The Baldwin Locomotive Works. Strain responsive apparatus. 2,416,664; Feb. 25.
- Ruge, Arthur C., Cambridge, Mass., assignor to The Baldwin Locomotive Works. Condition responsive apparatus for rotatable members. 2,423,620; July 8.
- Rugeley, Edward W., and T. A. Feild, Jr., Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Production of reinforced composite structures. 2,418,904; Apr. 15.
- Rugeley, Edward W., T. A. Feild, Jr., and J. L. Petrokubi, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Synthetic textile articles. 2,420,565; May 13.
- Rugg, E. T., Company, The, assignee: *See*—  
Grobowski, Benny T.
- Ruggles-Klingemann Mfg. Co., assignee: *See*—  
Earley, Roy C., and Kimball.  
Kimball, James L.
- Rugh, James A., Chicago, Ill. Switch. 2,429,074; Oct. 14.
- Ruhl, George F., Watervliet, N. Y. Comb. 2,430,303; Nov. 4.
- Ruhl, George J.: *See*—  
Crossman, Fred, Southam, and Ruhl.
- Rühle, Rudolf, Stuttgart-Zuffenhausen, Germany; vested in the Attorney General of the United States. Vaporization of substances in a vacuum. 2,423,729; July 8.
- Rumbold, John S., Woodbridge, Conn., assignor to United States Rubber Company, New York, N. Y. Manufacture of articles of rubberlike material. 2,414,394; Jan. 14.
- Rummelsburg, Alfred L.: *See*—  
Borglin, Joseph N., and Rummelsburg.
- Rummelsburg, Alfred L., assignor to Hercules Powder Company, Wilmington, Del. Pine-wood resin of increased melting point and producing. 2,417,180; Mar. 11.
- Rumpf, Herman and I. J., Burlingame, Calif. Padding and sound proofing material. 2,419,971; May 6.
- Rumpf, Irwin J.: *See*—  
Rumpf, Herman and I. J.
- Runcie, Walter O., Lima, Peru. Relooping needle assembly. 2,415,111; Feb. 4.
- Runcie, Walter O., Lima, Peru. Combined air pump and sewing machine. 2,418,483; Apr. 8.
- Rund, Paul R., Middle River, Md., assignor, by mesne assignments, to Continental Can Company, Inc., New York, N. Y. Apparatus for assembling can parts. 2,433,066; Dec. 23.



- Rundell, James E., North Chicago, and T. A. Aho, Waukegan, assignors to Abbott Laboratories, North Chicago, Ill. Purifying quinaidine hydrochloride. 2,414,561; Jan. 21.
- Rundell, Raymond R., Miami, Fla. Safety pin. 2,416,644; Feb. 25.
- Rundell, Raymond R., Miami, Fla. Wire swivel. 2,423,050; June 24.
- Rundell, Raymond R., Miami, Fla. Swinging bracket. 2,424,369; July 22.
- Rundell, Theodore W., Abington, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Refrigerator cabinet construction. 2,426,055; Aug. 19.
- Rundell, Theodore W., Abington, assignor to Philco Corporation, Philadelphia, Pa. Refrigerator cabinet. 2,426,525; Aug. 26.
- Rundquist, Henning W., East Lansing, assignor to General Motors Corporation, Detroit, Mich. Cartridge feeding mechanism. 2,418,428; Apr. 1.
- Rundt, John W., assignor to The Timken Roller Bearing Company, Canton, Ohio. Tapered roller thrust bearing. 2,417,398; Mar. 11.
- Runge, Frank E.: *See*—  
Smith, Perry C., Runge, and Dornfeld.
- Runge, Frank E., Haddon Heights, N. J., assignor to Radio Corporation of America. Electronic gun adjustment. 2,418,317; Apr. 1.
- Runge, Frank E., Haddon Heights, N. J., assignor to Radio Corporation of America. Electron optical instrument with adjustable specimen support. 2,418,903; Apr. 15.
- Runge, Frank E., Haddon Heights, N. J., assignor to Radio Corporation of America. Electron optical instrument. 2,425,833; Aug. 19.
- Runge, Frank E., Haddon Heights, and P. C. Smith, Moorestown, N. J., assignors to Radio Corporation of America. Specimen chamber for electron microscopes. 2,423,158; July 1.
- Runkle, Glenn R., Racine, assignor to Line Material Company, South Milwaukee, Wis. Switch construction. 2,416,407; Feb. 25.
- Runkle, Glenn R., Racine, assignor to Line Material Company, South Milwaukee, Wis. Switch construction. 2,416,408; Feb. 25.
- Rupersburg, Burghardt P., St. Clair Shores, assignor, by mesne assignments, to Syncro Devices, Inc., Detroit, Mich. Method of and apparatus for operating hot cathode lamps. 2,424,505; July 22.
- Ruperti, Andreas, Arlesheim, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Esterifying cellulose fibers. 2,420,499; May 13.
- Ruple, John B., Rifle, Colo. Garden tool. 2,427,369; Sept. 16.
- Rupp, Walter H.: *See*—  
Packie, John W., and Rupp.
- Rusch, Hugo L., Winnetka, assignor to A. C. Nielsen Company, Chicago, Ill. Simultaneous radio program and time signal recording system. 2,417,129; Mar. 11.
- Rush, George C., Portland, and H. Bailey, Salamonia, Ind. Carrier. 2,424,852; July 29.
- Rush, William, Bonners Ferry, Idaho. Tire expander. 2,430,996; Nov. 18.
- Rushmer, Arnold, Widnes, and W. W. Smith, Liverpool, England, assignors to Imperial Chemical Industries Limited. Manufacture of oxidation products of perchlorethylene. 2,427,624; Sept. 16.
- Rushmer, Ralph H., assignor to The Carborundum Company, Niagara Falls, N. Y. Bonded abrasive and making same. 2,413,729; Jan. 7.
- Rushmore, Francis M., U. S. Army. Plotting instrument. 2,419,597; Apr. 29.
- Rusk, Richard J., Allentown, Pa. Billposting scaffold. 2,415,658; Feb. 11.
- Ruskin, Frances R., assignee: *See*—  
Ruskin, Simon L.
- Ruskin, Henry, Chicago, Ill. Staple remover. 2,428,503; Oct. 7.
- Ruskin, Simon L., New York, N. Y., assignor to F. R. Ruskin. Nucleotide compounds of components of vitamin B complex. 2,417,841; Mar. 25.
- Ruskin, Simon L., New York, N. Y., assignor to F. R. Ruskin. Therapeutic compositions and preparing same. 2,419,230; Apr. 22.
- Ruskin, Simon L., New York, N. Y., assignor to F. R. Ruskin. Therapeutic metal cevitamate compositions. 2,427,692; Sept. 23.
- Rusler, George W., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Tuning fork construction. 2,433,160; Dec. 23.
- Russ, Walter R., Little Falls, N. J., and C. Hoffman, Scarsdale, T. R. Schweitzer, Bellair, and G. Dalby, assignors to Ward Baking Company, New York, N. Y. Surgical adhesive tape. 2,427,022; Sept. 9.
- Russell, Barrett B., 3rd., Elizabeth, N. J., assignor to Standard Oil Development Company. Apparatus for contacting solid particles with gaseous fluids. 2,422,262; June 17.
- Russell Electric Company, assignee: *See*—  
Stolberg, Sven A.
- Russell, Emory S., Kenmore, N. Y. Rotary slide indicator. 2,415,849; Feb. 18.
- Russell, F. C., Company, The, assignee: *See*—  
Russell, Frank C., and Barker.
- Russell, F. L., Corporation, assignee: *See*—  
Rose, Joseph P.
- Russell, Frank C., Euclid, and A. S. Barker, Wadsworth, Ohio. Closure device for building apertures. 2,414,419; Jan. 14.
- Russell, Frank C., Euclid, and A. S. Barker, assignors to The F. C. Russell Company, Cleveland, Ohio. Closure device for building apertures. 2,422,704; June 24.
- Russell, George F., Tacoma, Wash. Method of and apparatus for high-frequency dielectric heating. 2,433,067; Dec. 23.
- Russell, John, and R. C. Houck, assignors to Eastman Kodak Company, Rochester, N. Y. Lubricated photographic film and process of preparation. 2,430,585; Nov. 11.
- Russell, Kenneth F., assignor, by mesne assignments, to H. H. Garner, Claremont, Calif. Air cleaning apparatus. 2,417,130; Mar. 11.
- Russell, Kephart P., Shippensburg, Pa. Downflow forced draft air heater. 2,431,772; Dec. 2.
- Russell Manufacturing Company, The, assignee: *See*—  
Hendley, James A.  
Rasero, Lawrence J.
- Russell, Stanley D., assignor to J. I. Case Company, Racine, Wis. Auxiliary feeder blades. 2,430,082; Nov. 4.
- Russell, Stanley D., assignor to J. I. Case Company, Racine, Wis. Loader chute for pickup balers. 2,431,892; Dec. 2.
- Russell, Stanley D., assignor to J. I. Case Company, Racine, Wis. Baler and drive. 2,432,212; Dec. 9.
- Russite Corporation, assignee: *See*—  
Russo, Dominik.
- Russo, Dominik, assignor to Russite Corporation, Boston, Mass. Shoe press. 2,428,814; Oct. 14.
- Russo, Joseph P.: *See*—  
Haas, Harold G., and Russo.
- Rust, Frederick F.: *See*—  
Vaughan, William E., and Rust.
- Rust, Frederick F., Berkeley, and F. H. Dickey, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif. Mixed dialkyl peroxides. 2,414,769; Jan. 21.
- Rust, Frederick F., and W. E. Vaughan, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Controlled oxidation of alkylated aromatic hydrocarbons. 2,415,800; Feb. 11.
- Rust, Frederick F., J. H. Raley, and W. E. Vaughan, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Sensitization of hydrogen bromide catalyzed oxidation reactions. 2,421,392; June 3.
- Rust, Frederick F., and W. E. Vaughan, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Controlled catalytic photochemical oxidation of organic compounds. 2,423,949; July 15.
- Rust, John B., West Orange, N. J., assignor to Montclair Research Corporation. Aldehyde cellulose products and making same. 2,415,039; Jan. 28.
- Rust, John B., West Orange, N. J., assignor to Montclair Research Corporation. Ketone-cellulose products and making same. 2,415,040; Jan. 28.
- Rust, John B., West Orange, N. J., assignor to Montclair Research Corporation. Unsaturated ether-cellulose derivative and making same. 2,415,041; Jan. 28.
- Rust, John B., West Orange, N. J., assignor to Montclair Research Corporation. Beta-substituted nitrile-cellulose products and making same. 2,415,042; Jan. 28.
- Rust, John B., West Orange, N. J., assignor to Montclair Research Corporation. Carbodiimide-cellulose products and making same. 2,415,043; Jan. 28.
- Rust, John B., West Orange, N. J., assignor to Montclair Research Corporation. Unsaturated polycarboxylic acid-cellulose products and making same. 2,415,044; Jan. 28.
- Rust, John B., Montclair, N. J., assignor to Montclair Research Corporation. Cyanoacetic acid esters of polyhydric alcohols and making same. 2,426,056; Aug. 19.
- Rust, John B., West Orange, and C. A. MacKenzie, Upper Montclair, N. J., assignors to Montclair Research Corporation. Production of organo-silicon compounds. 2,426,121; Aug. 19.
- Rust, John B., Montclair, and C. A. MacKenzie, Upper Montclair, N. J., assignors to Montclair Research Corporation. Production of organo-silicon compounds. 2,426,122; Aug. 19.
- Rust, William M., Jr., Houston, Tex., assignor to Standard Oil Development Company. Well logging. 2,414,899; Jan. 28.
- Rustad, Arthur C., Floral Park, assignor to Press Wireless, Inc., New York, N. Y. Facsimile scanning and control system. 2,422,587; June 17.
- Rustebakke, Homer M.: *See*—  
Harder, Edwin L., and Rustebakke.
- Ruthell, Clarence C., Endicott, and J. Lusht, Johnson City, assignors to International Business Machines Corporation, New York, N. Y. Gear cutting machine. 2,432,809; Dec. 16.
- Rutenber, Edwin A., assignor to Gibson Refrigerator Company, Greenville, Mich. Combined deep well and surface burner electric cooker. 2,416,645; Feb. 25.
- Ruth, Marjorie I., Louisville, Ky. Toeless hose. 2,424,056; July 15.
- Rutherford, John T.: *See*—  
Farrington, Bruce B., Clayton, and Rutherford.



- Rutherford, John T., and R. J. Miller, Berkeley, assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif. Compounded hydrocarbon oil. Re. 22,829; Jan. 14.
- Rutherford, John T., and R. J. Miller, Berkeley, assignors, by mesne assignments, to California Research Corporation, San Francisco, Calif. Compounded oil. Re. 22,830; Jan. 14.
- Rutherford, Peter B., and D. R. Luster, Herkimer, N. Y., assignors to Remington Arms Company, Inc., Bridgeport, Conn. Target throwing apparatus. 2,432,446; Dec. 9.
- Rutherford, Robert E.: *See—*  
Koch, Stanley J., and Rutherford.
- Ruthman, Kenneth S., and J. R. Parsons, assignors to United States Gypsum Company, Chicago, Ill. Porous composition of matter and manufacture. 2,432,971; Dec. 16.
- Ruthruff, Robert F., Chicago, Ill. Catalytic cracking of partially oxidized hydrocarbons. 2,430,249; Nov. 4.
- Ruthruff, Robert F., Chicago, Ill., assignor to The Sherwin-Williams Company, Cleveland, Ohio. Manufacture of phthalic anhydride. 2,425,398; Aug. 12.
- Ruthruff, Robert F., Chicago, Ill., assignor to The M. W. Kellogg Company, Jersey City, N. J. Conversion of hydrocarbons. 2,430,784; Nov. 11.
- Ruthruff, Robert F., Chicago, Ill., O. J. Grummitt, Cleveland, Ohio, and B. C. Dickinson, South Bound Brook, N. J., assignors to The Sherwin-Williams Company, Cleveland, Ohio. Dihalophenyl alkyl carbinol pesticides. 2,430,586; Nov. 11.
- Ruthy, Louis C.: *See—*  
Behrendt, John G., and Ruthy.
- Rutishauser, Hans, Altadena, assignor to Aerojet Engineering Corporation, Azusa, Calif. Valve. 2,417,270; Mar. 11.
- Rutishauser, Hans, Altadena, assignor to Aerojet Engineering Corporation, Azusa, Calif. Valve. 2,432,213; Dec. 9.
- Rutishauser, Hans, Altadena, R. C. Brumfield, Arcadia, and F. Zwicky, Pasadena, assignors to Aerojet Engineering Corporation, Azusa, Calif. Two-piece jet thrust motor. 2,426,526; Aug. 26.
- Rutkowski, Walter L., Normandy, assignor to R. C. Can Company, St. Louis, Mo. Powder spray dispenser. 2,431,081; Nov. 18.
- Rutledge, John W., El Paso, Tex. Traction chain. 2,425,644; Aug. 12.
- Rutledge, Leonard J., Jackson, Mich. Folding trailer boat. 2,422,930; June 24.
- Rutter, Alvah E., Rockford, Ill., assignor to J. I. Case Company, Racine, Wis. Tractor hitch for plows. 2,430,143; Nov. 4.
- Rutter, Alvah E., Rockford, Ill., assignor to J. I. Case Company, Racine, Wis. Clamping device for tool standards. 2,430,434; Nov. 4.
- Rutter, Walter, Peninsula, assignor to The Burt Manufacturing Company, Akron, Ohio. Ventilator construction. 2,422,855; June 24.
- Ruzicka, Leopold, and P. Plattner, Zurich, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. Betaine derivatives and making same. 2,429,171; Oct. 14.
- Rx Scale Manufacturing Company, Inc., assignee: *See—*  
Nichols, Frederick A.
- Ryan Aeronautical Co., The, assignee: *See—*  
Larkin, Artemas M.  
Sanborn, Daniel S., and Kops.
- Ryan, Byron F., and E. H. Smith, Van Nuys, Calif., assignors to Radio Corporation of America. Microphone boom. 2,421,437; June 3.
- Ryan, Commodore D., Los Angeles, and F. P. Sager, Alhambra, Calif., assignors to Commercial Controls Corporation. Postage printer for tape. 2,415,762; Feb. 11.
- Ryan, Commodore D., and E. P. Drake, Los Angeles, Calif., assignors to Commercial Controls Corporation. Tape feeding and cutting apparatus for mail treating machines. 2,419,288; Apr. 22.
- Ryan, Commodore D., and E. P. Drake, Los Angeles, Calif., assignor to Commercial Controls Corporation, Rochester, N. Y. Tape moistening device for mail treating machines. 2,421,579; June 3.
- Ryan, Daniel P., U. S. Army. Haversack. 2,423,853; July 15.
- Ryan, John D.: *See—*  
Erickson, Arvid M., and Ryan.
- Ryan, John F., assignor to The Kendall Company, Walpole, Mass. Milk filter. 2,433,531; Dec. 30.
- Ryan, Joseph D., Toledo, Ohio, and F. B. Shaw, Jr., Baltimore, Md., assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Laminated safety glass. 2,425,568; Aug. 12.
- Ryan, Lester R., Plymouth, assignor to The Autoyre Company, Oakville, Conn. Cartridge belt link. 2,423,346; July 1.
- Ryan, Patrick P., Trenton, N. J., assignor to St. Regis Paper Company, New York, N. Y. Heat-resisting laminated plastic and production thereof. 2,415,763; Feb. 11.
- Ryan, Robert, East Troy, assignor to Tri-Clover Machine Company, Kenosha, Wis. Fabricating a tee. 2,425,645; Aug. 12.
- Ryan, Walter L., assignee: *See—*  
Elmes, John A.
- Ryan, William H.: *See—*  
Land, Edwin H., Mahler, and Ryan.
- Ryan, William H., River Forest, Ill. Hand electric clothes presser. 2,432,252; Dec. 9.
- Ryde, John L.: *See—*  
McCulloch, Robert P., and Ryde.  
Ransley, Charles E., Ryde, and Williams.
- Ryde, John W.: *See—*  
Jones, Douglas E., Ransley, Ryde, and Williams.  
Ransley, Charles E., Ryde, and Williams.
- Ryder, Charles D., Covington, assignor to The Grote Manufacturing Company, Bellevue, Ky. Sign reflector button mounting. 2,432,810; Dec. 16.
- Ryder, Earl, Bergen, N. Y. Headlight lens. 2,423,664; July 8.
- Ryder, Robert M., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Coupling system. 2,427,693; Sept. 23.
- Rydholm, Carl J. O., Gothenburg, Sweden. Tobacco pipe. 2,431,586; Nov. 25.
- Rylsky, Gregory V., Ridgefield Park, assignor to Bendix Aviation Corporation, Teterboro, N. J. Restoring directional gyros. 2,416,646; Feb. 25.
- Rylsky, Gregory V., Ridgefield Park, assignor to Bendix Aviation Corporation, Teterboro, N. J. System for using the scanning beam of light for instruments. 2,417,704; Mar. 18.
- Rylsky, Gregory V., Ridgefield Park, assignor to Bendix Aviation Corporation, Teterboro, N. J. Target seeking aerial bomb. 2,421,085; May 27.
- Rymland, Murray J., assignee: *See—*  
Frankel, Sydney.
- Ryniker, Harry F., Elmira, N. Y. Hat. 2,417,616; Mar. 18.
- Ryno, Juddson B.: *See—*  
Casey, Charles L., and Ryno.
- Ruzicka, Leopold, Zurich, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J. Manufacture of unsaturated lactones of the cyclopentanopolyhydrophenanthrene series. 2,417,017; Mar. 4.
- Ryznar, John W., La Grange, assignor to National Aluminate Corporation, Chicago, Ill. Clarification of aqueous liquids. 2,420,340; May 13.
- SKF, Industries, Inc., assignee: *See—*  
Ball, Frederick S., Palmgren, and Styri.  
Helmstein, Lars J. T., and Janson.
- S. & S. Corrugated Paper Machinery Co., Inc., assignee: *See—*  
Jacobson, Charles.
- S. & S. Corrugated Paper Machinery Co., Inc., The, assignee: *See—*  
Shields, Albert F.
- S & W Fine Foods, Inc., assignee: *See—*  
Carroll, Ellsworth W.
- Sabaitis, John, Grand Rapids, Mich. Newspaper dispenser. 2,423,621; July 8.
- Sabaitis, John, Grand Rapids, Mich. Tack feeding and stripping device. 2,431,831; Dec. 2.
- Sabaneeff, Sophie, New York, N. Y. Ornamental and useful unique figure. 2,431,621; Nov. 25.
- Sabel, Edward R., and F. I. Galbrecht, assignors to The Haloid Company, Rochester, N. Y. Lens adjusting means for photocopy machines. 2,429,896; Oct. 28.
- Sabel, Edward R., and F. I. Galbrecht, assignors to The Haloid Company, Rochester, N. Y. Paper feeding mechanism for photocopy machines. 2,430,687; Nov. 11.
- Sabin, John, and F. K. Peterson, Los Angeles, Calif. Photographer's film numbering box. 2,420,726; May 20.
- Sabner, Mark, London, England. Side frame for chairs and the like. 2,423,798; July 8.
- Sabol, George, Duquesne, Pa. Television cathode-ray tube with rotary deflecting plates. 2,421,086; May 27.
- Sabor, Russell, Minneapolis, Minn. Electrical time controlled release actuator. 2,419,659; Apr. 29.
- Sacchini, Columbus R., Euclid, assignor to The Marquette Metal Products Company, Cleveland, Ohio. Hydraulic motor mechanism. 2,415,607; Feb. 11.
- Sachanen, Alexander N.: *See—*  
Myers, Claude G., Hansford, and Sachanen.
- Sachs, Harry: *See—*  
Palmer, Edwin, and Schwartz.
- Sachtleben, Lawrence T., Indianapolis, Ind., assignor to Radio Corporation of America. Calibrating lenses with respect to effective physical speed. 2,419,421; Apr. 22.
- Sachtleben, Lawrence T., Indianapolis, Ind., assignor to Radio Corporation of America. Monitoring system for optical sound recording. 2,423,256; July 1.
- Sachtleben, Lawrence T., Indianapolis, Ind., assignor to Radio Corporation of America. Method and apparatus for measuring the index of refraction of thin layers of transparent material. 2,425,399; Aug. 12.
- Sachtleben, Lawrence T., Indianapolis, Ind., assignor to Radio Corporation of America. Photoelectric apparatus for inspection of paper strips. 2,429,331; Oct. 21.
- Sachtleben, Lawrence T., Indianapolis, Ind., assignor to Radio Corporation of America. Measurement of resolving power of Schmidt telescopes. 2,431,424; Nov. 25.
- Sachtleber, Rudolph H., East Orange, N. J. Measuring instrument. 2,422,931; June 24.
- Sacks, John E., Brooklyn, N. Y., assignor to The Frank H. Lee Company, Danbury, Conn. Shipping and display case. 2,417,705; Mar. 18.



- Saco-Lowell Shops, assignee: *See*—  
Burnham, Virgil A.  
Curley, Robert S.  
Gwaltney, Eugene C., Jones, and Rabasa.  
Kennedy, John A.  
Zalkind, Benjamin J.
- Sadon, Edwin J., Cuyahoga Falls, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Brake. 2,424,922; July 29.
- Sadtler, Robert E., deceased, Ridley Park, Pa.; W. B. Sadtler, administrator. Cigarette holder. 2,421,087; May 27.
- Sadtler, Samuel S.: *See*—  
Hipple, Irene B., and Sadtler.
- Sadtler, William, administrator: *See*—  
Sadtler, Robert E.
- Saemann, Franklin I., assignee: *See*—  
Mollenhour, Delbert C.
- Safety Box Toe Company, assignee: *See*—  
McMurray, Harry G.
- Safety Car Heating and Lighting Company, Inc., The, assignee: *See*—  
Hulse, George E.  
Schemoes, Lindsley.
- Safety-Fuel Incorporated, assignee: *See*—  
Dinklage, Ralph.  
Lalberte, Albert J.
- Safety Scaffold Corporation, The, assignee: *See*—  
Lamb, Clyde K.
- Safety Truck Tank Corporation, The, assignee: *See*—  
Scott, Carlyle H.
- Safeway Heat Elements, Inc., assignee: *See*—  
Ely, Robert S.
- Saffady, Thomas F., Detroit, assignor to Sav-Way Industries, Inc., Warren Township, Macomb County, Mich. Bottle cap. 2,421,356; May 27.
- Safir, Jacob A., Kew Gardens, assignor to Dentists' Supply Company of New York, New York, N. Y. Artificial tooth. 2,431,086; Nov. 18.
- Safford, Claude, San Diego, Calif. Fishing lure. 2,419,037; Apr. 15.
- Safford, Moyer M., Schenectady, N. Y., assignor to General Electric Company. Titanium dioxide dielectric materials. 2,424,853; July 29.
- Safir, Sidney R.: *See*—  
Baker, Bernard R., Safir, and Bernstein.  
Bernstein, Seymour, Baker, and Safir.
- Safir, Sidney R., and S. Bernstein, Pearl River, and B. R. Baker, Nanuet, assignors, by mesne assignments, to American Cyanamid Company, New York, N. Y. Alkyl esters of alpha-acylamino, beta-carboalkoxymethyl mercapto suberic acid. 2,431,967; Dec. 2.
- Saftlas, Samuel, Newark, N. J. Strip lace and making same. 2,421,357; May 27.
- Sage, Howard, Cleveland Heights, Ohio. Trouble lamp switch. 2,418,905; Apr. 15.
- Sageb Societe Anonyme de Gestion et d'Exploitation de Brevets, assignee: *See*—  
Mohaupt, Henry H.
- Sager, Frank P.: *See*—  
Ryan, Commodore D., and Sager.
- Sager, Irving, Deal, and E. Wiler, Belmar, N. J. Rotary spark gap. 2,425,757; Aug. 19.
- Sager, Victor, Arcadia, assignor to Diesel Filter Co., El Monte, Calif. Winding apparatus. 2,433,787; Dec. 30.
- Sahyun, Melville, Detroit, Mich., assignor, by mesne assignments, to Sterling Drug Inc., Wilmington, Del. Separation of tryptophane from mixed amino acids. 2,416,956; Mar. 4.
- Saint Clair, Gordon, Chicago, Ill. Dispensing package for commodity sticks. 2,422,705; June 24.
- St. Clair, Theodore A., Pontiac, Mich., assignor to Phillips Petroleum Company. High-pressure diaphragm relief valve. 2,416,855; Mar. 4.
- St. Clair, Theodore A., and W. R. Eddy, Bartlesville, Okla., assignors to Phillips Petroleum Company. Lockable pipe connection. 2,417,955; Mar. 25.
- St. Joseph Lead Company, assignee: *See*—  
Isbell, William T.
- St. Louis, Alfred J.: *See*—  
O'Farrell, Matthew, and St. Louis.
- Saint-Mieux, Charles, assignor to Societe Meridionale du Caoutchouc Someca, Societe a Responsabilite Limitee, Carcassonne, France. Manufacture of plastified rubber and adhesive latex. 2,430,481; Nov. 11.
- St. Palley, Zoltan O., Pittsfield, Mass., assignor to General Electric Company. Variable voltage transformer system. 2,415,712; Feb. 11.
- St. Paul Foundry Company, assignee: *See*—  
Sheets, Herman E.
- St. Pierre, Eugene, Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Yarn take-up. 2,422,599; June 17.
- St. Pierre, Eugene, Pawtucket, R. I., assignor to Hemphill Company. Suture. 2,424,516; July 22.
- St. Pierre, Henry, Worcester, Mass. Manufacture of solid-forged chain. 2,426,066; Aug. 19.
- St. Pierre, Henry, Worcester, Mass. Chain link. 2,426,067; Aug. 19.
- St. Pierre, Henry, Worcester, Mass. Sleeve guard. 2,430,745; Nov. 11.
- St. Regis Paper Company, assignee: *See*—  
Ryan, Patrick P.
- Saiter, Charles H., Cleveland Heights, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio. Current collector. 2,422,132; June 10.
- Salay, Eugene A., St. Paul, Minn. Compensated arc welder. 2,429,075; Oct. 14.
- Salazar, Alfred M., West Islip, assignor to Federal Telephone and Radio Corporation, New York, N. Y. Battery holder. 2,418,141; Apr. 1.
- Salem Engineering Company, The, assignee: *See*—  
Van Baten, Myron.  
Vogeli, Harry E.
- Salfisberg, Leroy L., South Orange, assignor to Ivers-Lee Company, Newark, N. J. Article-feeding mechanism. 2,420,982; May 20.
- Salfisberg, Leroy L., South Orange, assignor to Ivers-Lee Company, Newark, N. J. Method of and machine for packaging. 2,420,983; May 20.
- Salinas, Victor H.: *See*—  
Lofgren, Charles G., and Salinas.
- Salinger, Hans W. G., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Target seeking device with phototube multiplier. 2,425,956; Aug. 19.
- Salinger, Hans W. G., Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Photocell multiplier apparatus. 2,431,510; Nov. 25.
- Salisbury, Frederick L., West Hempstead, N. Y., assignor to Sperry Gyroscope Company, Inc. Coaxial line coupling. 2,425,834; Aug. 19.
- Salisbury, Leroy F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Fluoro-butadiene polymers. 2,416,456; Feb. 25.
- Salisbury, Leroy F., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing a mercury oxide catalyst. 2,426,792; Sept. 2.
- Salle, Anthony J., West Los Angeles, and H. L. Guest, Ocean Park, assignors of one-half to L. A. Gunther, Robbins, Calif. Phenolic type germicides and making same. 2,420,099; May 6.
- Sallmann, Richard: *See*—  
Graenacher, Charles, Sallmann, and Albrecht.
- Sal-Mar Laboratories, Inc., assignee: *See*—  
Penk, Charles.
- Salminen, Ilmari F., and A. Weissberger, assignors to Eastman Kodak Company, Rochester, N. Y. Acylamino phenols. 2,423,730; July 8.
- Salmon, Benjamin T.: *See*—  
Miller, Leslie T., Salmon, and Zitza.
- Salo, John J.: *See*—  
Casler, Adrien F., and Salo.
- Salsbury Corporation, assignee: *See*—  
Salsbury, Esley F.  
Thostenson, Lewis D.
- Salsbury, Esley F., assignor to Salsbury Corporation, Los Angeles, Calif. Vehicle speed governed belt transmission. 2,420,100; May 6.
- Salsman, Thomas J., Chicago, and J. W. Paxton, Bloomington, Ill. Filing cabinet. 2,420,015; May 6.
- Salt, Lloyd B., Newton, and C. R. Zaino, Hyde Park, assignors to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Sweeper. 2,415,372; Feb. 4.
- Salter, Shirley C., R. C. Lang, and J. M. Cook, assignors to Kalamazoo Stove & Furnace Company, Kalamazoo, Mich. Top structure for cooking stoves or ranges. 2,429,279; Oct. 21.
- Salvin, Victor S.: *See*—  
Seymour, George, Salvin, and Miville.
- Salvo, Charles J., Somerville, Mass., assignor to United-Rexall Drug Company. Screw cap. 2,414,395; Jan. 14.
- Salvo Chemical Corporation, assignee: *See*—  
Zimmerman, Frederick J., and Kayner.
- Salzberg, Paul L.: *See*—  
Pratt, Burt C., and Salzberg.
- Salzenberg, Walter H., Wilmington, Del., and M. Sveda, Cleveland, Ohio, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing thionyl chloride. 2,420,623; May 13.
- Salzer, John, Houston, assignor to P. R. Daniel, Harris County, Tex. Apparatus for rolling radiator core elements. Re. 22,956; Dec. 30.
- Salzmann, Fritz, assignor to Aktiengesellschaft Für Technische Studien, Zurich, Switzerland. Regulation of the output of thermal power plants. 2,414,170; Jan. 14.
- Salzmann, Harry C., Chicago, Ill. Portable cooler. 2,427,230; Sept. 9.
- Samaniego, José A., San Francisco, and M. Souders, Jr., Piedmont, assignors to Shell Development Company, San Francisco, Calif. Diolefin production. 2,427,925; Sept. 23.
- Samann, Eric L., Grand Rapids, Mich. Padding member for garment hangers. 2,420,101; May 6.
- Samblanet, Herman L., Canton, Ohio. Sesamoid-cuboid foot balancer. 2,423,622; July 8.
- Samcoe Holding Corporation, assignee: *See*—  
Butterworth, Harry W., Jr., S. and M., Cohn, and Walter.
- Samelson, Bernard, assignor to The Deming Company, Salem, Ohio. Pumping system for evacuating containers of liquid. 2,425,957; Aug. 19.
- Samiran, David, Osborn, Ohio. Safety hose coupling. 2,413,730; Jan. 7.
- Samiran, David, Osborn, Ohio. Aircraft fuel system. 2,431,345; Nov. 25.



- Samiran, David, Osborn, and R. Fink, Patterson Field, Ohio. Automatic shutoff fuel nozzle with float controlled valve. 2,420,341; May 13.
- Samisch, Zdenka, Rehoboth, Palestine. Manufacture of dried citrus fruit paste. 2,422,588; June 17.
- Sammons, Charles W.: *See*—  
Moncrieff, Robert W., Sammons, and Wheatley.
- Sampson, Frederick W., Dayton, Ohio, and G. J. Hyde, Brooklyn, N. Y., assignors to General Motors Corporation. Breech bolt retracting means. 2,418,906; Apr. 15.
- Sampson, Frederick W., Dayton, Ohio, and G. J. Hyde, Brooklyn, N. Y., assignors to General Motors Corporation. Extensible shoulder stock for firearms. 2,424,194; July 15.
- Sampson, Frederick W., Dayton, Ohio, and G. J. Hyde, Brooklyn, N. Y., assignors to General Motors Corporation. Firearm safety. 2,428,683; Oct. 7.
- Sams, James A., Schenectady, N. Y., assignor to General Electric Company. Magnetic testing device. 2,432,811; Dec. 16.
- Samuel, Arthur L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Manufacture of electron discharge devices. 2,413,731; Jan. 7.
- Samuel, Arthur L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ultra-high frequency device. 2,415,850; Feb. 18.
- Samuel, Arthur L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency multiplying system. 2,418,484; Apr. 8.
- Samuel, Arthur L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. High frequency continuous amplifier. 2,420,342; May 13.
- Samuelson, Janet, Leighton, Pa. Plastic handbag closure. 2,416,457; Feb. 25.
- Samzelius, John W., Wilksburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Reinforced contact clip. 2,422,589; June 17.
- Sanborn, Arthur H., Chicago, Ill. Synchronous motor. 2,432,070; Dec. 2.
- Sanborn, Daniel S., and E. A. Kops, assignors to The Ryan Aeronautical Co., San Diego, Calif. Arresting hook retracting mechanism. 2,428,684; Oct. 7.
- Sanchez, Julian S., assignee, et al.: *See*—  
Solis, Fausto A.
- Sanchis, Jose, Newark, N. J. Filling device with receptacle operated outlet valve. Re. 22,837; Jan. 28.
- Sand, Charles H.: *See*—  
Allen, William R., and Sand.
- Sandberg, Carl R., and G. B. Patterson, Dallas, Tex.; said G. B. Patterson, now by marriage, G. B. Wren; assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated. Azeotropic separation of amylenes. 2,428,815; Oct. 14.
- Sandberg, Oscar, Defiance, assignor to Lynch Package Machinery Corporation, Toledo, Ohio. Card forming apparatus. 2,430,620; Nov. 11.
- Sander, Frank V., Highland Park, and C. H. Coles, North Plainfield, N. J., assignors to Ortho Pharmaceutical Corporation. Manufacture of diaphragms. 2,427,303; Sept. 9.
- Sanders, Arthur F., Leeds, England. Compressor and compressor valve. 2,419,091; Apr. 15.
- Sanders, David A., and G. K. Schrader, Campbell, Calif. Apparatus for removing fruit and the like from a tray on which the fruit is processed. 2,428,855; Oct. 14.
- Sanders, Edwin R., Silver Spring, Md., assignor to the United States of America, as represented by the Secretary of the Navy. Testing device. 2,420,055; May 6.
- Sanders, Elmore J.: *See*—  
Earley, Samuel C. and N. B., Sanders, Skareen, Davies, and Hughes.
- Sanders, Elmore J., San Gabriel, Calif., and L. Leffingwell, Toledo, Ohio. Fuel atomizer for internal-combustion engines. 2,421,580; June 3.
- Sanders, Herbert L., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Self-dispersing methylolstearamides. 2,431,202; Nov. 18.
- Sanders, Leonard T., Oklahoma City, Okla. Drying rack. 2,424,711; July 29.
- Sanders, Louis S.: *See*—  
McIntosh, Maurice D.
- Sanders, Marshall T., Brandywine Hundred, assignor to Atlas Powder Company, Wilmington, Del. Preparation of tartaric acid values. 2,419,038; Apr. 15.
- Sanders, Odell, Kermit, Tex. Drill pipe retriever for well derricks. 2,418,728; Apr. 8.
- Sanders, Robert W., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Composite television signal generator. 2,426,710; Sept. 2.
- Sanders, Robert W., Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Signal level control system. 2,431,511; Nov. 25.
- Sanders, Royden C., Jr.: *See*—  
Wolff, Irving, and Sanders.
- Sanders, Royden C., Jr., Hightstown, N. J., assignor to Radio Corporation of America. Radio bomb release system. 2,416,223; Feb. 18.
- Sanders, Royden C., Jr., Hightstown, N. J., assignor to Radio Corporation of America. Reflected wave navigation device. 2,420,016; May 6.
- Sanders, Royden C., Jr., Hightstown, N. J., assignor to Radio Corporation of America. Reflected wave navigation device. 2,420,017; May 6.
- Sanders, Royden C., Jr., Hightstown, N. J., assignor to Radio Corporation of America. Frequency modulated altimeter or distance indicator. 2,422,133; June 10.
- Sanders, Royden C., Jr., Hightstown, N. J., assignor to Radio Corporation of America. Distance indicator. 2,422,134; June 10.
- Sanders, Royden C., Jr., Hightstown, N. J., assignor to Radio Corporation of America. Frequency modulated distance indicator. 2,422,135; June 10.
- Sanders, Royden C., Jr., Hightstown, N. J., assignor to Radio Corporation of America. Frequency modulated radio locator system and indicator. 2,426,901; Sept. 2.
- Sanders, Royden C., Jr., Hightstown, N. J., assignor to Radio Corporation of America. Radio navigation system. 2,432,939; Dec. 16.
- Sanders, Royden C., Jr., Haddonfield, N. J., assignor to Radio Corporation of America. Frequency modulated altimeter or distance indicator. 2,420,199; May 6.
- Sanders, Royden C., Jr., Haddonfield, N. J., assignor to Radio Corporation of America. Pulsed frequency modulated altimeter. 2,424,854; July 29.
- Sanders, William M., assignee: *See*—  
Andrews, Daly P., Heger, and Smith.
- Sanderson, Kenneth E., Hopedale, and L. M. Rogers, Mendon, assignors to Draper Corporation, Hopedale, Mass. Loom control arm. 2,424,058; July 15.
- Sandilands, James C., assignor to The James Morrison Brass Mfg. Co., Limited, Toronto, Ontario, Canada. Oil well pressure control system. 2,417,181; Mar. 11.
- Sandison, Alexander G. S., Brantford, Ontario, Canada. Boat construction. 2,413,787; Jan. 7.
- Sando, Joseph B., Kansas City, Mo., assignor to Western Laundry Machinery Company. Heating means for pressing machines. 2,430,621; Nov. 11.
- Sandow, William, Livonia, N. Y. Foot massaging machine. 2,424,120; July 15.
- Sandoz A. G., assignee: *See*—  
Comolli, Giampiero.
- Sandoz Limited, assignee: *See*—  
Gutzwiller, Ernst.
- Sandoz Ltd., assignee: *See*—  
Gutzwiller, Ernst.
- Wehrli, Walter.
- Sands, William F., West Collingswood, N. J., assignor to Radio Corporation of America. Short-wave permeability tuning system. 2,417,182; Mar. 11.
- Sands, William F., West Collingswood, N. J., assignor to Radio Corporation of America. Permeability-tuned short-wave spread-band receiver. 2,424,506; July 22.
- Sands, William F., Haddonfield, N. J., assignor to Radio Corporation of America. Variable inductance device. 2,431,425; Nov. 25.
- Sandusky, Julius, Toronto Township, Peel County, Canada. Electrolyte level control device for storage batteries. Re. 22,833; Jan. 21.
- Sandvikens Jernverks Aktiefolag, assignee: *See*—  
Hard af Segerstad, Carl G.
- Sandy Hill Iron & Brass Works, The, assignee: *See*—  
Hayes, Millard F.
- Sanford, Cyrus, Venice, Calif. Walking edger. 2,419,167; Apr. 15.
- Sanford, Hugh W., Knoxville, Tenn., assignor to The Sanford Investment Company, Wilmington, Del. Mine car. 2,422,136; June 10.
- Sanford, Hugh W., and W. P. Biddle, Jr., Knoxville, Tenn.; said Biddle assignor to said Sanford. Cooking stove. 2,417,842; Mar. 25.
- Sanford Ink Company, assignee: *See*—  
Hofeldt, George J., and Lofgren.
- Sanford Investment Company, The, assignee: *See*—  
Sanford, Hugh W.
- Sanford, Janet K.: *See*—  
Moore, Ralph G. D., and Sanford.
- Sanford, Roy S., and J. J. Murphy, assignors to The Autoyre Company, Incorporated, Oakville, Conn. Cartridge belt link. 2,426,527; Aug. 26.
- Sangamo Electric Company, assignee: *See*—  
Creedy, Frederick.
- Sanit-All Products Corporation, assignee: *See*—  
Meyerson, Louis B.
- Sanowskis, Albert C., Chicago, Ill. Combination lock. 2,425,646; Aug. 12.
- Sansonetti, James H.: *See*—  
Sheaks, Carl T., and Sansonetti.
- Santiago, James J.: *See*—  
Grant, John, and Santiago.
- Santiago, James J., assignor to Grant Oil Tool Company, Los Angeles, Calif. Hydrostatic bailer for wells. 2,415,608; Feb. 11.
- Santini, Danilo, Tenafly, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Elevator leveling system. 2,414,562; Jan. 21.
- Santini, Danilo, Tenafly, and A. Nelson, Hillside, N. J., assignor, by mesne assignments, to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electromagnetic brake control system. 2,424,333; July 22.
- Sa Pereira, Lino L., Washington, D. C. Navigational computing means. 2,421,965; June 10.
- Sarsafan, Karl: *See*—  
Da Roza, Francis G., and Sarafan.



- Saran Research Corporation, assignee: *See*—  
Schwartz, Nathan R.
- Sarasin, Raymond J., Fitchburg, assignor to F. A. Whitney Carriage Company, Leominster, Mass. Steerable baby carriage. 2,429,172; Oct. 14.
- Sardella, John J.: *See*—  
Hartough, Howard D., and Sardella.
- Sardeson, Robert, assignor to H. C. Genter, Minneapolis, Minn. Food cooking device. 2,414,396; Jan. 14.
- Sardo, Carlo, New York, N. Y. Heat-treating basket. 2,417,089; Mar. 11.
- Sargeant, Walter E., Ferndale, and H. B. Hooper, assignors to General Motors Corporation, Detroit, Mich. Amplifier for small voltages. 2,413,788; Jan. 7.
- Sargent, Aaron M., assignee, trustee: *See*—  
Pool, John A., Bartholomew, and Johnson.
- Sargent & Company, assignee: *See*—  
Voight, Henry G., and Edwards.
- Sargent, Frederick L., Burlingame, and W. J. Crader, Mountain View, Calif. Tire rack. Re. 22,928; Oct. 14.
- Sargent, William C., assignor to National Battery Company, St. Paul, Minn. Clamping and burning machine for storage battery cell groups. 2,430,188; Nov. 4.
- Sarnecki, Stephen A.: *See*—  
Heaton, Nathan C.
- Sarra, Robert L., Swampscott, Mass. Wax-applying device. 2,429,429; Oct. 21.
- Sarver, Emmett F., assignor of one-half to O. W. Wortman, Wichita, Kans. Cooled radiation thermocouple. 2,416,775; Mar. 4.
- Sarver, Emmett F., assignor of one-half to O. W. Wortman, Wichita, Kans. Thermoelectric current generating device. 2,425,647; Aug. 12.
- Sasgen Derrick Co., assignee: *See*—  
Benson, Jesse M.
- Saslaw, Otto, Kearny, N. J., assignor to International Telephone & Radio Manufacturing Corporation, New York, N. Y. Lacquer. 2,426,242; Aug. 26.
- Saslaw, Otto, Kearny, N. J., assignor to International Telephone & Radio Manufacturing Corporation, New York, N. Y. Selenium paste and making and applying it. 2,433,401; Dec. 30.
- Saslaw, Otto, Kearny, N. J., assignor to Federal Telephone and Radio Corporation. Selenium cell and lacquer therefor. 2,433,402; Dec. 30.
- Sass, Otto, and E. A. Lemire, Los Angeles, Calif., assignors to The Patent and Licensing Corporation, New York, N. Y. Flexible oilproof adhesive compositions. 2,414,274; Jan. 14.
- Satterlee, Howard A., assignor to The Aero Equipment Corporation, Bryan, Ohio. Automatic auxiliary fuel pump system. 2,417,215; Mar. 11.
- Satterthwaite, Harry C., Detroit, Mich. Hone. 2,419,660; Apr. 29.
- Sauder, Noah N., New Holland, Pa. Tractor implement. 2,432,589; Dec. 16.
- Sauer, Christian H., Chico, Calif. Bowling ball construction. 2,414,672; Jan. 21.
- Sauer, Christian H., assignor to J. T. Alm, Chico, Calif. Vehicle brake. 2,431,426; Nov. 25.
- Sauer, George, assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. 2,418,429; Apr. 1.
- Sauer, George, assignor to Union Special Machine Company, Chicago, Ill. Lock stitch sewing machine and lubricating the same. 2,424,855; July 29.
- Sauer, George, Berwyn, assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. 2,430,369; Nov. 4.
- Sauer, Robert O., Schenectady, N. Y., assignor to General Electric Company. Preparation of polyorganohalogenopolysiloxanes. 2,421,653; June 3.
- Sauerbier, Walton F., U. S. Navy. Muffler construction. 2,428,040; Sept. 30.
- Saul, William B.: *See*—  
Hatch, Meredith R., Saul, and O'Connor.
- Saunders, Charles A., Manilla, Iowa. Archery target butt. 2,423,347; July 1.
- Saunders, James B., Alexandria, Va., assignor to Government of the United States, as represented by the Secretary of the Department of Commerce. Photographic apparatus for recording interference phenomena. 2,425,758; Aug. 19.
- Saunders, Kenneth W., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Producing aryl compounds. 2,422,171; June 10.
- Saunders, Norman H., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic telephone system. 2,421,717; June 3.
- Saunders, Paul W., Tarpon Springs, Fla. Breast pump. 2,419,795; Apr. 29.
- Saunders, Seymour G., Bloomfield Hills, and H. Morrison, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Composite structure and making the same. 2,429,897; Oct. 28.
- Saurer, Curt, Detroit, Mich., assignor to The Ohio Rubber Company, Willoughby, Ohio. Picking mechanism for looms. 2,427,625; Sept. 16.
- Savage, Charles F., Marblehead, Mass., assignor to General Electric Company. Attitude indicator. 2,415,707; Feb. 11.
- Savage, Edward S., Rochester, N. Y. Wheeled toy. 2,415,195; Feb. 4.
- Savage, John A., Deerwood, Minn. Metallic ore sintering furnace. 2,429,372; Oct. 21.
- Savage, John O., Trenton, N. J. Pulverizing disc plow. 2,429,298; Oct. 21.
- Savage, W. J. Company, assignee: *See*—  
Fulton, Weston M.
- Savage, W. J. Company, Inc., assignee: *See*—  
Fulton, Weston M.
- Savercool, Herbert W.: *See*—  
Wilson, Burton E., and Savercool.
- Savich, Theodore R.: *See*—  
Oldroyd, Dorothy M., Savich, and Goldblatt.
- Saville, Robert W.: *See*—  
O'Callaghan, Jerome J., and Saville.
- Savitz, Christian W., Glendale, Calif., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla. Well surveying instrument. 2,415,221; Feb. 4.
- Savolainen, Unto U., assignor to Metals & Controls Corporation, Attleboro, Mass. Compensating thermostat. 2,425,687; Aug. 12.
- Savon, Mathew, Lowellville, Ohio. Magnetic ground device. 2,429,526; Oct. 21.
- Savoy, M.: *See*—  
Henderson, Lawrence M., Bond, and Savoy.
- Savoy, Michael: *See*—  
Bond, Donald C., and Savoy.
- Savoie, Francois, Paris, France, vested in the Attorney General of the United States. Equipment for the projection of stereoscopic views and films. 2,421,393; June 3.
- Savrdra, Charles M., Bay Shore, assignor to The Atlantic Coast Fisheries Company, New York, N. Y. Fish filleting machine. 2,424,057; July 15.
- Savrdra, Charles M., Bay Shore, assignor to The Atlantic Coast Fisheries Company, New York, N. Y. Fish filleting machine. 2,431,893; Dec. 2.
- Savrdra, Charles M., Bay Shore, N. Y., and W. H. Hunt, National City, Calif., assignors to The Atlantic Coast Fisheries Company, New York, N. Y. Conveyor apparatus for positioning fish. 2,419,289; Apr. 22.
- Savrdra, Charles M., Bay Shore, N. Y., and W. H. Hunt, National City, Calif., assignors to The Atlantic Coast Fisheries Company, New York, N. Y. Traction discs. 2,427,626; Sept. 16.
- Sav-Way Industries, Inc., assignee: *See*—  
Saffady, Thomas F.
- Sawdon, James: *See*—  
Isabell, Robert C., and Sawdon.
- Sawinski, Stanley, Hamtramck, Mich. Tie control. 2,430,952; Nov. 18.
- Sawtell, Edward, Hales Corners, Wis. Corn detasselling machine. 2,427,746; Sept. 23.
- Sawyer, John W., U. S. Navy. Device for determining compass errors. 2,424,254; July 22.
- Sawyer, Norman D., Arlington, assignor, by mesne assignments, to The Malden Spinning & Dyeing Company, Malden, Mass. Yarn feeding mechanism. 2,432,685; Dec. 16.
- Sawyer, Thomas K., assignee: *See*—  
Parker, John B.
- Sax, Herman, and L. J. Fox, assignors to Modern Devices, Inc., Chicago, Ill. Wheel blocking device. 2,418,279; Apr. 1.
- Saxby, Frank R., London, England, assignor to The National Cash Register Company, Dayton, Ohio. Multiplying machine. 2,419,502; Apr. 22.
- Saxe, Walter E., Alhambra, assignor to The Conveyor Company, Los Angeles, Calif. Vibratory rotary screen. 2,416,499; Feb. 25.
- Saxton Engineering Company, Limited, assignee, et al.: *See*—  
Shawcross, George E.
- Sayles, Louis F., assignor to L. P. Sayles, Portland, Ore. Manhole adapter. 2,431,082; Nov. 18.
- Sayles, Louise P., assignee: *See*—  
Sayles, Louis F.
- Sayles, Theo C., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Coaster brake. 2,423,070; June 24.
- Sayre, Lewis H., Portland, Ore. Game. 2,417,216; Mar. 11.
- Saywell Associates, assignee: *See*—  
Saywell, Lawrence G.
- Saywell, Lawrence G., San Mateo, assignor to Saywell Associates, South San Francisco, Calif. Sealing assembly. 2,428,041; Sept. 30.
- Scafe, Eugene T., and J. Herman, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Petroleum distillate and improving. 2,423,406; July 1.
- Scaff, Jack H.: *See*—  
Pfann, William G., Scaff, and White.
- Scaife, Charles W.: *See*—  
Smith, Arthur E. W., and Scaife.  
Smith, Arthur E. W., Scaife, and Stanley.  
Smith, Arthur E. W., Stanley, and Scaife.
- Scalera, Mario: *See*—  
Lecher, Hans Z., Scalera, and Forster.
- Scalera, Mario, Somerville, N. J., assignor to American Cyanamid Company, New York, N. Y. Process for the preparation of B-1-chlorobenzanthrone. 2,418,318; Apr. 1.
- Scalera, Mario, Somerville, N. J., assignor to American Cyanamid Company, New York, N. Y. Purification of 1-1'-5'-1''-trianthrilmide-2-2'-6'-2'' dicarbazole. 2,421,163; May 27.



- Scalera, Mario, Somerville, N. J., assignor to American Cyanamid Company, New York, N. Y. Preparing an anthrimide carbazole vat dyestuff. 2,432,972; Dec. 16.
- Scalera, Mario, Somerville, and A. W. Joyce, Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y. Substituted 4-hydroxyalkylamino-1,8-naphthalic acid imides. 2,415,373; Feb. 4.
- Scalera, Mario, Somerville, and Hugh Wendell Stewart, Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y. Dibenzoylamino dianthrilmide carbazole dyestuffs. 2,425,126; Aug. 25.
- Scalera, Mario, Somerville, and W. B. Hardy, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Oil soluble colors of the anthraquinone series. 2,426,577; Aug. 26.
- Scally, Paul V.: *See*—Garvey, Thomas H., and Scally.
- Scanlin, Thomas F., Philadelphia, Pa. Layout tool. 2,431,346; Nov. 25.
- Scantlebury, Gordon S. P., Ealing, London, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Thermionic valve amplifier circuit arrangement. 2,428,295; Sept. 30.
- Scarborough, Frederick, Rutherford, N. J. Tension device for knitting machines. 2,415,535; Feb. 11.
- Scarborough, William M., Overland, Mo., assignor to Curtis-Wright Corporation. Adjustable fairlead. 2,417,706; Mar. 18.
- Scardacione, Edward, Staten Island, assignor to Hammel, Reglander & Co. Inc., New York, N. Y. Watchmaker's caliper. 2,429,139; Oct. 14.
- Scarlett, George E.: *See*—Miller, Logan C., and Scarlett.
- Scarratt, Albert W., Kenilworth, Ill., assignor to International Harvester Company. Engine driven refrigeration unit. 2,420,566; May 13.
- Search, Virgil, Bartlesville, Okla., assignor to Phillips Petroleum Company. Prevention of corrosion in furfural rerun systems. 2,416,500; Feb. 25.
- Search, Virgil, Bartlesville, Okla., assignor to Phillips Petroleum Company. Extractive distillation of hydrocarbons with furfural-water mixtures. 2,419,039; Apr. 15.
- Scattone, Vincenzo, New York, N. Y. Abrasive board for jewelers. 2,430,785; Nov. 11.
- Seeli, Russell G., Canton, Conn. Back-view electronic device. 2,426,752; Sept. 2.
- Schaaff, Louis W., Jackson Heights, assignor to Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Locking means. 2,428,341; Sept. 30.
- Schaaff, Louis W., Jackson Heights, H. Heilmann, New York, and H. Wurzel, Bronx, assignors to Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Retaining ring. 2,416,852; Mar. 4.
- Schaal, Norbert J., Riverton Heights, Wash. Freezing machine. 2,419,954; May 6.
- Schaapveld, Henry J., near West Liberty, assignor of one-half to F. B. Olsen, Iowa City, Iowa. Attachment for cultivator tractors. 2,416,271; Feb. 18.
- Schabot, Bernard W., Ferndale, Mich. Type assembly. 2,426,156; Aug. 19.
- Schachinger, Edward A., New York, N. Y. Watchman's signal system. Re. 22,864; Apr. 8.
- Schachinger, Edward A., Flushing, N. Y. Combination changing lock. 2,427,814; Sept. 23.
- Schade, Arthur L., assignor to The Overly Bio-Chemical Research Foundation, Inc., New York, N. Y. Fermentation of impure sugar solutions. 2,413,699; Jan. 7.
- Schade, Arthur L., assignor to The Overly Biochemical Research Foundation, Inc., New York, N. Y. Production of glycerol and yeast by fermentation. 2,428,766; Oct. 7.
- Schade, Arthur L., New York, N. Y., and E. Fürber, New Haven, Conn., assignors to The Overly Bio-Chemical Research Foundation, Inc., New York, N. Y. Manufacturing of glycerine. 2,414,838; Jan. 28.
- Schade, Frank S., assignor to National Blank Book Company, Holyoke, Mass. Chain post binder device. 2,432,590; Dec. 16.
- Schade, Frank S., assignor to National Blank Book Company, Holyoke, Mass. Folding handle. 2,433,788; Dec. 30.
- Schade, Willy, assignor to Eastman Kodak Company, Rochester, N. Y. High aperture collimating lens system. 2,425,400; Aug. 12.
- Schade, Willy, assignor to Eastman Kodak Company, Rochester, N. Y. Modified petzval type projection lenses. 2,430,587; Nov. 11.
- Schadel, Charles H., Houston, assignor of one-half to Eastman Oil Well Survey Company, Dallas, Tex., and one-half to Eastman Oil Well Survey Corporation, Long Beach, Calif. Orienting apparatus. 2,420,447; May 13.
- Schaefer, Arthur E., Loudonville, assignor to General Aniline & Film Corporation, New York, N. Y. Hydrofluoric salts of basic triarylmethane dyestuffs. 2,425,569; Aug. 12.
- Schaefer, Carl A.: *See*—Van Valkenburg, Hermon L., and Schaefer.
- Schaefer, Carl F., Flint, assignor to General Motors Corporation, Detroit, Mich. Ceramic material. 2,419,290; Apr. 22.
- Schaefer, Earl H.: *See*—Ensign, George G., Lawson, Schaefer, and Wochos.
- Schaefer, George, Deans, N. J., and C. A. Enquist, Woodside, Long Island, assignors to General Steel Products Corporation, Long Island City, N. Y. Shelving. 2,413,892; Jan. 7.
- Schaefer, Harold W., assignor to The Harry Alter Company, Chicago, Ill. Electric indicating and totalizing apparatus. 2,416,849; Mar. 4.
- Schaefer, Justus J., Great Barrington, Mass. Nonmetallic spring for upholstery. 2,415,374; Feb. 4.
- Schaefer, Vincent J.: *See*—Bachman, Charles H., and Schaefer.
- Schaefer, Walter S., assignor to Republic Steel Corporation, Cleveland, Ohio. Gas carrying mandrel for pipe welding. 2,433,296; Dec. 23.
- Schaeffer, Joseph A., assignor to Auto Wrecking Company Limited, Winnipeg, Manitoba, Canada. Swivelling front wheel assembly for wagons or trailers. 2,432,253; Dec. 9.
- Schaelchlin, Walter, Wilkinsburg, and E. Frisch, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Position regulation system. 2,417,784; Mar. 18.
- Schaelchlin, Walter, and K. Mahnke, Forest Hills, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system for electric hoists. 2,424,255; July 22.
- Schaelchlin, Walter, and D. Ellis, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Shockproof contactor and relay. 2,425,648; Aug. 12.
- Schaevez, Herman, Collingswood, N. J., assignor to The Baldwin Locomotive Works. Multirange load measuring apparatus. 2,421,222; May 27.
- Schafer, Edward J., Chicago, Ill. Combination shirt and coat. 2,421,966; June 10.
- Schafer, Elwood W., Millburn, assignor to National Union Radio Corporation, Newark, N. J. Apparatus for assembly of mounts. 2,425,127; Aug. 5.
- Schafer, James F., deceased, Fort Lauderdale, Fla.; M. B. Linthicum, executrix. Mowing cutter and support. 2,427,306; Sept. 9.
- Schaffan, Stephan, Jr., Irvington, N. J. Miniature railway unit. 2,422,047; June 10.
- Schaffer, William L., assignor to The Brown Instrument Company, Philadelphia, Pa. Antihunt electrical servomotor system. 2,426,711; Sept. 2.
- Schaffner, Fred W., Mount Washington, Ohio. Target. 2,417,451; Mar. 18.
- Schaffner, Robert M., Chicago, Ill., assignor to The Guardite Corporation. Preventing overdrying of terminal portions in continuous drying systems. 2,415,445; Feb. 11.
- Schaffner, Robert M., Chicago, Ill., assignor to The Guardite Corporation. Drying of moist food products. 2,417,843; Mar. 25.
- Schafnitz, Nicholas, assignor to Knapp-Monarch Company, St. Louis, Mo. Toaster. 2,419,326; Apr. 22.
- Schalkii, Otto: *See*—Lippert, Hanns, and Schalkii.
- Schall, William K., Jr., and Lloyd H. Van Dermark, Piqua, Ohio, assignors, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Antidispairity motor control system. 2,425,442; Aug. 12.
- Schalla, Milo M.: *See*—Dilworth, Thomas B., and Schalla.
- Schantz, Donald H., assignor to Standard Steel Spring Company, Coraopolis, Pa. Electroplated corrosion proof metal articles and making the same. 2,419,231; Apr. 22.
- Schantz, Joseph D., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Electron discharge device. 2,423,998; July 15.
- Schantz, Joseph D., Fort Wayne, Ind., assignor to Farnsworth Television and Radio Corporation. Impulse generator. 2,423,999; July 15.
- Schara, Earl M., Washington, D. C. Tilttable trap chamber powder dispensing device. 2,422,263; June 17.
- Schara, Earl M., Washington, D. C., assignor of one-half to W. B. Croney, Chicago, Ill. Tilting electric flatiron. 2,422,856; June 24.
- Scharf, Albert, New York, N. Y., assignor to American Lecithin Company, Cleveland, Ohio. Stabilizing glyceride oils. 2,431,347; Nov. 25.
- Scharf, Louis, and A. Lamparelli, West New York, N. J. Double tie adapter for yarn. 2,424,774; July 29.
- Scharff, Richard M., Clayton, assignor to Gerber Plastic Company, St. Louis, Mo. Beverage bottle case. 2,414,171; Jan. 14.
- Schartel, Karl W.: *See*—Seligmann, Arthur, and Schartel.
- Schassberger, Norman A., assignor to Willys-Overland Motors, Inc., Toledo, Ohio. Windshield and mounting. 2,423,623; July 8.
- Schatz, Louis W.: *See*—Geer, Norma E., and Schatz.
- Schaub, Benton H.: *See*—Stevenson, Arthur E., and Schaub.
- Schaub, Fred H., Engineering Co., assignee: *See*—Schaub, Robert F.
- Schaub, Robert F., Oak Park, assignor to Fred H. Schaub Engineering Co., Chicago, Ill. Boiler feed-water system. 2,420,624; May 13.
- Schaul, Adolf C., Cleveland Heights, Ohio. Boiler plug. 2,416,548; Feb. 25.



- Scheb, Joseph T.: *See*—  
Moore, George S., and Scheb.
- Schedin, Robert S.: *See*—  
Bergstrom, Carl P., and Schedin.
- Schedin, Robert S., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Picker spindle lubricator. 2,432,812; Dec. 16.
- Scheeline, Harold W.: *See*—  
Patterson, John A., and Scheeline.
- Scheetz, Henry F., Jr., Pittsburgh, Pa. Decalcomania. 2,419,918; Apr. 29.
- Scheffler, Raymond J.: *See*—  
Sprague, Earl E.
- Scheg, Marclan A., and O. H. Dicke, assignors to General Railway Signal Company, Rochester, N. Y. Switch system to prevent arcing of contacts. 2,425,570; Aug. 12.
- Scheide, Benton F., assignee: *See*—  
Scheide, Edward F.
- Scheide, Edward F., assignor to B. F. Scheide, Denver, Colo. 2,432,813; Dec. 16.
- Scheidegger, Jakob: *See*—  
Müller, Willy, and Scheidegger.
- Scheiderbauer, Robert A., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of polyvinyl alcohol articles and products. 2,413,789; Jan. 7.
- Scheiderbauer, Robert A., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Color removal from acrylonitrile polymers. 2,432,447; Dec. 9.
- Schelwer, Albert T., Erie, Pa. Coupling. 2,419,503; Aug. 22.
- Schelwer, Albert T., Erie, Pa. Coupling. 2,428,637; Oct. 7.
- Schelwer, Albert T., Erie, Pa. Coupling. 2,428,638; Oct. 7.
- Scheldorf, Randal D., Haddon Heights, N. J., assignor to Radio Corporation of America. Automatic amplitude control for variable frequency oscillators. 2,424,905; July 29.
- Schell, Donald H.: *See*—  
Norton, Frank R., and Schell.
- Schelleng, John C., Interlaken, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Position locating system. 2,416,351; Feb. 25.
- Schelleng, John C., Interlaken, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Distance measuring system. 2,421,394; June 3.
- Schellens, Christopher A., Tenants Harbor, Maine, and A. L. Sherman, Englewood, N. J. Fluid driven pump control. 2,425,958; Aug. 19.
- Schelling, William T., Oakland, and J. Anderson, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Dehydration of diacetone glycol to form a methyl pentadiene. 2,422,802; June 24.
- Schellman, Joseph H., Ridley Park, Pa., assignor to Robert Hetherington & Son, Inc., Wilmington, Del. Taper snap switch. 2,420,913; May 20.
- Schellman, Joseph H., Ridley Park, Pa., assignor to Robert Hetherington and Son, Inc., Wilmington, Del. Indicating switch. 2,430,189; Nov. 4.
- Schelsman, Carleton H.: *See*—  
Kirkpatrick, James B., Schlesman, and O'Kelly.
- Schemers, William J., Detroit, Mich. Auxiliary terminal for sealed-in motor compressor units. 2,418,729; Apr. 8.
- Schenavar, Harold E., Detroit, Mich. Fishing float. 2,421,466; June 3.
- Schenk, George F.: *See*—  
Gradsar, Albin A., and Schenk.  
Peck, William F., Schenk, and Maier.
- Schepmoes, Lindsley, New Haven, Conn., assignor to The Safety Car Heating and Lighting Company, Inc. Fluorescent lighting fixture. 2,421,967; June 10.
- Scherbatskoy, Serge A., Tulsa, Okla. Phase measuring system employing frequency modulation. 2,428,180; Sept. 30.
- Scherer, Charles F., Davenport, Iowa, and C. C. Popp, Rock Island, Ill., assignors to Davenport Machine and Foundry Company, Davenport, Iowa. Draw unit. 2,424,712; July 29.
- Scherer, Gordon H., administrator: *See*—  
McCahey, Donald C.
- Scherer, Robert P., assignor to Gelatin Products Corporation, Detroit, Mich. Capsulating machine. 2,431,141; Nov. 18.
- Scherer, Wayne R., Trooper, assignor to Taylor Fibre Company, Norristown, Pa. Apparatus for charging molds for gears. 2,425,835; Aug. 19.
- Schering Corporation, assignee: *See*—  
Inhoffen, Hans H., and Zühlsdorff.  
Schwenk, Erwin, Bloch, and Whitman.
- Schering & Glatz, Inc., assignee: *See*—  
Page, Bruno.  
Page, Bruno, and Lensky.
- Scherl, Egon B., Niagara Falls, N. Y., assignor to The Linde Air Products Company. Method and apparatus for pressure welding metal members. 2,415,912; Feb. 18.
- Schermuly, Alfred: *See*—  
Schermuly, Conrad D. A., and C.
- Schermuly, Charles: *See*—  
Schermuly, Conrad D. A., and C.
- Schermuly, Conrad D. A., and C., assignors to The Schermuly Pistol Rocket Apparatus Limited, Parkgate, Newdigate, England. Parachute and like flare. 2,416,957; Mar. 4.
- Schermuly Pistol Rocket Apparatus Limited, The, assignee: *See*—  
Schermuly, Conrad D. A., and C.
- Scherr, William, Los Angeles, Calif. Power conversion mechanism. 2,432,014; Dec. 2.
- Scherrer, George H., Port Ewen, N. Y., assignor to Hercules Powder Company, Wilmington, Del. Detonator. 2,429,490; Oct. 21.
- Schetty, Guido: *See*—  
Konzetti, Achille, Schetty, and Schmid.
- Scheuermann, Otto: *See*—  
Ulrich, Frederick, and Scheuermann.
- Schey, Oscar W., and W. K. Ritter, Cleveland, Ohio. Fuel injection impeller for superchargers. 2,419,598; Apr. 29.
- Scheyer, Emanuel, New York, N. Y. Flexible welded structural connection. Re. 22,905; Aug. 12.
- Schiavon, Juan B., Comodoro Rivadavia, assignor to Direccion General De Yacimientos Petroliferos Fiscales, Buenos Aires, Argentina. Perforator with projectiles. 2,414,900; Jan. 28.
- Schick Incorporated, assignee: *See*—  
Cunliffe, Wilfred.  
Gray, Norman A.
- Schick, Max, New York, N. Y. Talisman container. 2,420,265; May 6.
- Schick, Wenzel O., Detroit, Mich. Electrically heated multiple-coil water heater. 2,427,476; Sept. 16.
- Schickler, Albert C., assignor to The Ajax Thermostatic Controls Co., Cleveland, Ohio. Pilot burner guard. 2,430,688; Nov. 11.
- Schief, Ernest F., Medford, Wis. Razor and shear sharpener. 2,418,430; Apr. 1.
- Schiefelbein, Frederick W., assignor to The Dunham Company, Berea, Ohio. Adjusting means for soil working implements. 2,423,731; July 8.
- Schild, Vern L., Waverly, Iowa. Trench hoe and the like. 2,416,409; Feb. 25.
- Schieman, Gustave, Bronx, N. Y., assignor to International Plastic Corporation, Morristown, N. J. Combined container and dispenser for tape. 2,414,333; Jan. 14.
- Schiff, Sigmund, Cincinnati, Ohio, assignor to The United States of America, as represented by the Secretary of War. Front sear for rifles. 2,429,650; Oct. 28.
- Schiffman, Charles, assignee: *See*—  
Orlove, Max.
- Schigut, Emil A., Los Angeles, Calif. Can puncturing and spout forming device. 2,420,402; May 13.
- Schigut, Emil A., Van Nuys, Calif. Automatic slotting machine. 2,422,803; June 24.
- Schild, Arthur A., Farmington, Mo. Trimmer. 2,418,049; Mar. 25.
- Schild, Edwin F., Elmwood Park, Ill. Shelving. 2,414,334; Jan. 14.
- Schildknecht, Calvin E., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Modified vinyl alkyl ether polymers. 2,429,587; Oct. 21.
- Schiller, James C.: *See*—  
Seyfried, Wilson D., and Schiller.
- Schilling, Richard H.: *See*—  
Callaghan, Robert W., and Schilling.
- Schilling, Richard H., Minneapolis, Minn., assignor to General Mills, Inc. Wheat starch process. 2,418,669; Apr. 8.
- Schilling, Robert, Birmingham, and H. O. Fuchs, assignors to General Motors Corporation, Detroit, Mich. Track drive. 2,427,162; Sept. 9.
- Schillo, Michael: *See*—  
Haig, Paul, Schillo, and Tompkins.
- Schilthuis, Jan J., Enka, and A. L. Jackson, West Asheville, assignors to American Enka Corporation, Enka, N. C. Tension control. 2,415,764; Feb. 11.
- Schindler, Carl: *See*—  
Kyle, William D., Jr., and Schindler.
- Schindler, Walter: *See*—  
Müller, Paul, and Schindler.
- Schindler, Werner, Biel, Switzerland. Copying device. 2,422,137; June 10.
- Schirrmacher, John C., Jersey City, N. J. Thread magazine. 2,425,836; Aug. 19.
- Schjolin, Hans O., Birmingham, assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich. Converter construction and control. 2,420,914; May 20.
- Schlaak, Albert A., Hazel Run, Minn. Rope release. 2,432,125; Dec. 9.
- Schlabach, Atlee, and E. A. Keim, Charm, Ohio. Log cart. 2,430,786; Nov. 11.
- Schlage, Anna, executrix: *See*—  
Schlage, Walter R.
- Schlage Lock Company, assignee: *See*—  
Schlage, Walter R.
- Schlage, Walter R., deceased, Burlingame; A. Schlage, executrix, assignor to Schlage Lock Company, San Francisco, Calif. Lock structure. 2,413,732; Jan. 7.
- Schlage, Walter R., deceased, Burlingame, A. Schlage, executrix, assignor to Schlage Lock Company, San Francisco, Calif. Door lock. 2,413,733; Jan. 7.



- Schlage, Walter R., deceased, Burlingame; A. Schlage, executrix, assignor to Schlage Lock Company, San Francisco, Calif. Escutcheon plate fastener. 2,423,206; July 1.
- Schlage, Walter R., deceased, Burlingame; A. Schlage, executrix, assignor to Schlage Lock Company, San Francisco, Calif. Doorknob. 2,433,240; Dec. 23.
- Schlappa, Albert J.: *See*—  
Koci, Jerry C., and Schlappa.
- Schläpfer, Hans: *See*—  
Bindler, Jakob, and Schläpfer.
- Schläpfer, Oscar, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland. Diesel-electric vehicle with automatic weakening of the fields of the driving motors. 2,433,628; Dec. 30.
- Schläpfer, Oskar, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland. Electric generating plant for the propulsion of vehicles. 2,424,121; July 15.
- Schlatter, Eugene J., Mt. Rainer, Md. Variable elevation wedge. 2,428,435; Oct. 7.
- Schlecht, Frederick H., assignor to The Julian & Kokenge Company, Columbus, Ohio. Manufacture of welt shoes. 2,432,340; Dec. 9.
- Schleicher, Harold E., West Hartford, assignor to The Arrow-Hart & Hegemann Electric Company, Hartford, Conn. Electromagnetic switch. 2,421,290; May 27.
- Schleicher, Harold E., West Hartford, assignor to The Arrow-Hart & Hegemann Electric Company, Hartford, Conn. Contact structure for electric switches. 2,433,710; Dec. 30.
- Schlesinger, Kurt, West Lafayette, Ind., assignor to Radio Corporation of America. Deflection circuit. 2,425,491; Aug. 12.
- Schlesinger, Kurt, West Lafayette, Ind., assignor to Radio Corporation of America. Single pulse relay. 2,431,832; Dec. 2.
- Schlesinger, Milton, Jamaica, N. Y. Adjustable form for making dental models. 2,425,048; Aug. 5.
- Schlesman, Carleton H.: *See*—  
Crandall, George S., and Schlesman.
- Schletter, Richard E., Elkins Park, assignor to Textile Machine Works, Wyomissing, Pa. Fashioning means and method for knitting machines. 2,424,957; July 29.
- Schley, George C., Milwaukee, Wis. Baling press. 2,421,465; June 3.
- Schleyer, Victor, Anderson, Ind. Centrifugal pump. 2,427,307; Sept. 9.
- Schlichting, Edward A., assignee, et al.: *See*—  
Plant, Irvin, and Miltenberger.
- Schloessinger, William: *See*—  
Zenzes, Alexander M., and Schloessinger.
- Schloessinger, William, and A. M. Zenzes, New York, N. Y. Simulated glaze fruit and making same. 2,418,558; Apr. 8.
- Schlosser, Paul H., and K. R. Gray, assignors to Rayonier Incorporated, Shelton, Wash. Chemically prepared wood pulp product and producing the same. 2,423,469; July 8.
- Schlosser, Paul H., and K. R. Gray, assignors to Rayonier Incorporated, Shelton, Wash. Processing of refined chemical pulp into viscose by adding cation active sulfonium compounds. 2,428,387; Oct. 7.
- Schlosser, Paul H., and K. R. Gray, assignors to Rayonier Incorporated, Shelton, Wash. Improving the processing of refined chemical pulp into viscose. 2,432,126; Dec. 9.
- Schlosser, Paul H., and K. R. Gray, assignors to Rayonier Incorporated, Shelton, Wash. Improving the processing of refined chemical pulp into viscose. 2,432,127; Dec. 9.
- Schlosser, Paul H., and K. R. Gray, assignors to Rayonier Incorporated, Shelton, Wash. Improving the processing of refined chemical pulp into viscose. 2,432,128; Dec. 9.
- Schlosser, Paul H., K. R. Gray, and L. S. Keyser, assignors to Rayonier Incorporated, Shelton, Wash. Improving the processing of refined chemical pulp into viscose. 2,432,129; Dec. 9.
- Schlotthauer, Herman, Chicago, Ill. Shaver. 2,416,776; Mar. 4.
- Schlumberger, Marcel, St. Gaudens, Haute Garonne, France, vested in the Attorney General of the United States. Cartridge. 2,419,371; Apr. 22.
- Schlumberger, Marcel, Saint Gaudens, Haute-Garonne, France; vested in the Attorney General of the United States. Well casing perforator. 2,429,240; Oct. 21.
- Schlumberger Well Surveying Corporation, assignee: *See*—  
Doll, Henri-Georges.
- Schlumbohm, Peter, New York, N. Y. Handle for flask-necks. 2,414,901; Jan. 28.
- Schlumbohm, Peter, New York, N. Y. Handle for coffee makers. 2,414,902; Jan. 28.
- Schlumbohm, Peter, New York, N. Y. Refrigeration condenser-receiver. 2,424,287; July 22.
- Schmelkes, Franz C.: *See*—  
Ludwig, Bernard J., and Schmelkes.
- Schmerling, Louis: *See*—  
Ipatieff, Vladimir N., and Schmerling.
- Schmerling, Louis, Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Manufacture of 2,2,3-trimethylbutane. 2,429,373; Oct. 21.
- Schmerling, Louis, and V. N. Ipatieff, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Alkylation of phenols. 2,430,190; Nov. 4.
- Schmid, Otto: *See*—  
Conzett, Achille, Schetty, and Schmid.  
Conzett, Achille, and Schmid.
- Schmidt, Alfred, Weehawken, N. J. Bottom washer machine for battery cans. 2,428,098; Sept. 30.
- Schmidt, August, Jr., Niskayuna, N. Y., assignor to General Electric Company. Electronic power conversion apparatus. 2,419,464; Apr. 22.
- Schmidt, Edward W., St. Paul, and W. F. Webber, assignors to Archer-Daniels-Midland Company, Minneapolis, Minn. Vegetable products and producing the same. 2,430,535; Nov. 11.
- Schmidt, Edwin X., Nashota, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Apparatus for maintaining a condition of substantially constant value. 2,415,913; Feb. 18.
- Schmidt, Eugen, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland. Disconnectable means of attachment for the covers of hollow bodies. 2,425,128; Aug. 5.
- Schmidt, George G., Forest Hills, N. Y. Apparatus for mixing and blending fluids. 2,432,175; Dec. 9.
- Schmidt, Gerrit, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Cathodes for electric discharge tubes. 2,428,042; Sept. 30.
- Schmidt, Harry J., Collingswood, N. J., and O. Dojan, Temple, Pa. Making knitted fabrics with spread stitches. 2,428,529; Oct. 7.
- Schmidt, Howard F., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Piston and cylinder construction. 2,417,887; Mar. 25.
- Schmidt, John E., Oak Park, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Apparatus for locating leaks in cans. 2,432,814; Dec. 16.
- Schmidt, John H., Jr., Oakland, Calif. Convertible center drill and live and dead center. 2,430,997; Nov. 18.
- Schmidt, Marvin T., Chicago, and J. K. Wise, Evanston, assignors to United States Gypsum Company, Chicago, Ill. Aqueous emulsion paint. 2,430,828; Nov. 11.
- Schmidt, Paul, Wytheville, Va., and H. E. Hachnel, West Reading, assignors to Textile Machine Works, Wyomissing, Pa. Increasing the efficiency of full-fashioned knitting machines. 2,427,163; Sept. 9.
- Schmidt, R. Thur, Chicago, Ill. Cushion. 2,415,765; Feb. 11.
- Schmidt, Werner H.: *See*—  
Ziels, Norbert W., and Schmidt.
- Schmidt, Willy A., and J. A. Sprung, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Color developers comprising arylsulfonhydrazides and developing with same. 2,424,256; July 22.
- Schmied, William F., Blue Island, Ill., assignor to International Harvester Company. Manure spreader. 2,416,224; Feb. 18.
- Schmied, William F., Blue Island, Ill., assignor to International Harvester Company. Implement drive lock device. 2,427,880; Sept. 23.
- Schmitt, Arthur C.: *See*—  
Marisic, Milton M., and Schmitt.
- Schmitt, Arthur C., Wenonah, N. J., assignor to Socony Vacuum Oil Company, Incorporated. Silica-beryllia gel. 2,417,664; Mar. 18.
- Schmitt, Frank R., New York, N. Y., assignor, by mesne assignments, to Aerovox Corporation, New Bedford, Mass. Apparatus for testing and classifying insulating sheets according to dielectric strength. 2,425,347; Aug. 12.
- Schmitt, George P., New York, N. Y. Catalytic lighter. 2,419,972; May 6.
- Schmitt, Henry M., Glenside, assignor to The Brown Instrument Company, Philadelphia, Pa. Multiple self-balancing metering system. 2,427,881; Sept. 23.
- Schmitt, John A.: *See*—  
Bender, Lloyd F., and Schmitt.
- Schmitt, Otto A., Jersey City, N. J., assignor to Continental Can Company, Inc., New York, N. Y. Square can seaming head. 2,432,815; Dec. 16.
- Schmitt, Robert O., Louisville, assignor to Joseph E. Seagram & Sons, Inc., Shively, Ky. Distillation of polyhydric concentrate with cooling of solid residue. 2,417,131; Mar. 11.
- Schmitter, Walter P., and E. J. Wellauer, Wauwatosa, assignors to The Falk Corporation, Milwaukee, Wis. Clutch facing. 2,418,099; Mar. 25.
- Schmitz, Anton W., Scotia, and B. P. Chausse, Schenectady, N. Y., assignors to General Electric Company. Electric motor control system. 2,416,597; Feb. 25.
- Schmitz, Carl E.: *See*—  
Snyder, Russel D., Coleman, and Schmitz.
- Schmitz, Frederick W., Irvington, N. J., assignor to Research Corporation, New York, N. Y. Dew point instrument. 2,433,486; Dec. 30.
- Schmitz, Harry, Brooklyn, N. Y. Electric hot-water radiator. 2,427,308; Sept. 9.
- Schmitz, Norbert L.: *See*—  
Pell, Eric, and Schmitz.
- Schmitz, Oswin C., Golva, N. Dak. Wheel. 2,414,172; Jan. 14.



- Schmutzler, Alfred F., Boonton, N. J., assignor to Sun Chemical Corporation. Printing ink. 2,421,291; May 27.
- Schmutzler, Robert C., assignor to The Reyburn Manufacturing Company, Incorporated, Philadelphia, Pa. Tag. 2,423,818; July 8.
- Schnable, George K.: *See—*  
Glyptis, Nicholas, and Schnable.
- Schnacke, Walter H.: *See—*  
Milburn, Guy, and Schnacke.
- Schnakenberg, William A.: *See—*  
Phair, Robert A., and Schnakenberg.
- Schnaus, John M.: *See—*  
Roth, Louis, and Schnaus.
- Schnee, Charles F., Maspeth, N. Y. Cannula button for surgical operations and method of use. 2,431,587; Nov. 25.
- Schneible, Frank, New York, N. Y. Heating and air-conditioning system. 2,430,890; Nov. 18.
- Schneider, Allan K., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Process for improving the properties of polyamide fibers. 2,430,953; Nov. 18.
- Schneider, Edgar R., St. Louis, Mo., assignor of one-tenth to said Schneider, as trustee for O. H. Anderson, Salt Lake City, Utah. Carburetor. 2,422,751; June 24.
- Schneider, Everett J., assignor to Sylvania Electric Products Inc., Emporium, Pa. Tension control arrangement for winding systems. 2,419,372; Apr. 22.
- Schneider, Frank H., assignor to Florence Stove Company, Gardner, Mass. Broiler. 2,430,848; Nov. 11.
- Schneider, Fred B., Wesleyville, Pa., assignor to General Electric Company. Pressure recovery and gas cleaning device. 2,424,122; July 15.
- Schneider, Harold I.: *See—*  
Hill, Carl H., and Schneider.
- Schneider, Harry H., Bronx, N. Y. Deicing and heating device for motor vehicles. 2,431,773; Dec. 2.
- Schneider, Helmuth G., Roselle, and V. F. Mistretta, Scotch Plains, N. J., assignors, by mesne assignments, to Jasco, Incorporated. Production of diolefins by cracking of polymers. 2,414,770; Jan. 21.
- Schneider, Karl: *See—*  
Burdick, Will S., and Schneider.
- Schneider, Roland, Deer Creek, Wis. Milk strainer pad dispenser. 2,428,530; Oct. 7.
- Schneider, Stanley S., Lansdowne, and W. D. Kinsman, Catonsville, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Induction heating apparatus for brazing fillets. 2,427,747; Sept. 23.
- Schneider, Wallace K.: *See—*  
Barr, Naaman F., and Schneider.
- Schneider, Wallace K., assignor to Stoner-Mudge, Inc., Pittsburgh, Pa. Producing polysulfide rubber coatings. 2,429,698; Oct. 28.
- Schneider, William, and C. R. Marcum, Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Baffle. 2,424,334; July 22.
- Schneider, William H., Milwaukee, Wis. Bevel protractor. 2,421,395; June 3.
- Schnell, Ernst E.: *See—*  
Hyland, William A., and Schnell.
- Schnell, Steve, Kirkwood, assignor to Wagner Electric Corporation, St. Louis, Mo. Brake control system. 2,422,370; June 17.
- Schnell, Steve, Kirkwood, assignor to Wagner Electric Corporation, St. Louis, Mo. Bleeding mechanism for hydraulic brakes. 2,430,954; Nov. 18.
- Schnell, Steve, Kirkwood, assignor to Wagner Electric Corporation, St. Louis, Mo. Adjusting means for brake shoes. 2,433,487; Dec. 30.
- Schnell, Steve, Kirkwood, assignor to Wagner Electric Corporation, St. Louis, Mo. Control for hydraulic brake fluid. 2,430,955; Nov. 18.
- Schnepf, William K.: *See—*  
Wilson, Edward S., and Schnepf.
- Schnider, Otto J. P., Bourquin, and A. Grüssner, Basel, Switzerland, assignors to Hoffmann-La Roche, Inc., Nutley, N. J. Imidazol thiophan derivatives and the manufacture of same. 2,417,326; Mar. 11.
- Schnuck, Carl F., New Haven, assignor to Farrel-Birmingham Company, Inc., Ansonia, Conn. Calendar. 2,424,856; July 29.
- Schober, Mary C. and P. E., St. Louis, Mo. Earring. 2,433,711; Dec. 30.
- Schober, Philip E.: *See—*  
Schober, Mary C. and P. E.
- Schock, Joy O.: *See—*  
Folland, Donald F., Schock, and Jenks.
- Schockett, Harry U., Denver, Colo. Fluorescent lamp fixture. 2,422,857; June 24.
- Schockett, Harry U., Denver, Colo. Support for fluorescent lamp fixtures. 2,422,858; June 24.
- Schoen, André, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Light sensitized lead printing compounds and reproduction. 2,414,839; Jan. 28.
- Schoen, André, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Light sensitive diazotype compositions and process. 2,416,021; Feb. 18.
- Schoenborn, Ferdinand J., Riverhead, N. Y., assignor to Radio Corporation of America. Coaxial line coupling. 2,425,959; Aug. 19.
- Schoenfeld, Earl: *See—*  
Hulst, George D., Jr., and Schoenfeld, and Mountjoy.
- Schoenfeld, Earl, Mamaroneck, N. Y., assignor to Radio Corporation of America. Deflecting circuit. 2,420,200; May 6.
- Schoenfeld, Earl H., Mamaroneck, N. Y., assignor to Radio Corporation of America. Frequency counter circuit. 2,415,567; Feb. 11.
- Schoenfeld, Frank K., Silver Lake, Ohio, assignor, to The B. F. Goodrich Company, New York, N. Y. Rubberlike butadiene copolymers. 2,422,371; June 17.
- Schoenfeld, Milton: *See—*  
Raines, Arnold, and Schoenfeld.
- Schoenlaub, Robert A., Tiffin, assignor to Basic Refractories, Inc., Cleveland, Ohio. Working up refractory magnesite-containing rock. 2,414,980; Jan. 28.
- Schoenlaub, Robert A., Tiffin, assignor to Basic Refractories, Inc., Cleveland, Ohio. Separation of magnesium carbonate from calcium carbonate. 2,433,297; Dec. 23.
- Schoepe, Harry: *See—*  
Curtis, Myron S., and Schoepe.
- Scholl Manufacturing Company, Limited, The, assignee: *See—*  
Lenthall, Robert.
- Scholl, William M., Chicago, Ill. Cuboid support and heel retainer. 2,425,837; Aug. 19.
- Scholz, Caesar R.: *See—*  
Djerassi, Carl, and Scholz.
- Scholz, Louis A., Dayton, Ohio. Time pulsing relay device. 2,419,232; Apr. 22.
- Schomaker, Henry C., Calumet City, Ill. Live bait holder. 2,432,940; Dec. 16.
- Schomer, Leonard C.: *See—*  
Gill, John B., and Schomer.
- Schonberg, Mikkil: *See—*  
Akerman, John D., and Schonberg.
- Schonholtz, Julius: *See—*  
Group, Max, and Schonholtz.
- Schonrock, Bernhard, Ozone Park, N. Y., assignor to Williams Drug Sundries, Ltd., Toronto, Ontario, Canada. Machine for making swabs. 2,430,648; Nov. 11.
- Schopmeyer, Herman H., Hammond, Ind., assignor to American Maize-Products Company. Waxy starch granules. 2,431,512; Nov. 25.
- Schopmeyer, Herman H., Hammond, Ind., assignor to American Maize-Products Company. Spray drying starch conversion syrup. 2,433,818; Dec. 30.
- Schopmeyer, Herman H., and G. E. Felton, Hammond, Ind., assignors to American Maize-Products Company. Pregelatinized waxy starch. 2,427,328; Sept. 9.
- Schopmeyer, Herman H., Hammond, Ind., and F. J. Hamerstein and G. W. Larmouth, Chicago, Ill., assignors to American Maize-Products Company. Dewatering starch conversion syrup. 2,429,964; Oct. 28.
- Schorn, Carl F.: *See—*  
Kittler, Milton J., and Schorn.
- Schorn, Carl F., Detroit, Mich., assignor to G. M. and E. Holley. Power control. 2,428,531; Oct. 7.
- Schott, Donald E., Flushing, N. Y., and D. H. Crepeau, East Braintree, Mass., assignors to Thomas C. Wilson, Inc., Long Island City, N. Y. Fluid operated tube cleaner with flushing means. 2,423,257; July 1.
- Schott, Lawrence, Detroit, Mich. Rocking horse. 2,416,850; Mar. 4.
- Schouman, Fred W.: *See—*  
Jennings, Harley Y., Swezey, and Schouman.
- Schrader, Fred W., Priddy, Tex. Hairpin. 2,423,160; July 1.
- Schrader, Gerhard K.: *See—*  
Sanders, David A., and Schrader.
- Schrader, Leo W., Elizabeth, N. J., assignor to Standard Oil Development Company. Expansion joint. 2,422,502; June 17.
- Schraeder, Henry S.: *See—*  
Osterberg, Harold, and Schraeder.
- Schrameck, Jack E.: *See—*  
Wilcox, Howard M., Schrameck, and Webb.
- Schramka, Bernard, assignor to De Vry Corporation, Chicago, Ill. Foot adjustment for cabinets. 2,418,236; Apr. 1.
- Schramm, Roy A., and E. S. Wisniewski, Bay City, Mich. Adjustable head supports for display forms. 2,426,469; Aug. 26.
- Schrank, Harry P., Munroe Falls, assignor to Seiberling Rubber Company, Barberton, Ohio. Procedure and apparatus for use in vulcanizing hollow shaped articles. 2,428,944; Oct. 14.
- Schreck, Henry, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Fluid flow control device. 2,417,217; Mar. 11.
- Schreiber, Carl W., and K. B. Vollstorf, assignors, by mesne assignments, to Owens-Illinois Glass Company, Toledo, Ohio. Burn-off machine. 2,416,121; Feb. 18.
- Schreiber, Frederick W., Highland Park, N. J., assignor to The Personal Products Corporation. Sanitary napkin. 2,418,907; Apr. 15.
- Schreiber, John H., St. Louis, Mo. Machine tool. 2,417,132; Mar. 11.
- Schreiber, Richard S., and H. E. Schroeder, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Methylated methylolmelamine as a fixing agent for dyed cotton textiles. 2,416,884; Mar. 4.
- Schriever, Clarence J., assignee: *See—*  
England, August J.



- Schroeder, Charles S., Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lifting mechanism for industrial truck. 2,417,018; Mar. 4.
- Schroeder, Charles S., Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Load hook connection. 2,427,926; Sept. 23.
- Schroeder, Frederick B., Cincinnati, Ohio, assignor of one-half to T. Sullivan, Covington, Ky. Toy vehicle. 2,418,368; Apr. 1.
- Schroeder, Harry E., and J. B. Meek, Cleveland, Ohio. Jar or container. 2,428,588; Oct. 7.
- Schroeder, Herman C., Parma, assignor, by mesne assignments, to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Ball-bearing assembly. 2,414,335; Jan. 14.
- Schroeder, Herman E.: *See*—  
Mighton, Charles J., and Schroeder.  
Schreiber, Richard S., and Schroeder.
- Schroeder, Herman E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of rubbery diene hydrocarbon polymers prior to the incorporation of compounding ingredients. 2,416,667; Mar. 4.
- Schroeder, Herman E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Improving compounding characteristics of butadiene-1,3 copolymers by means of N-halogen amides. 2,416,668; Mar. 4.
- Schroeder, Herman E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Mixture of cyclized rubber and resorcinol-formaldehyde resol. 2,425,348; Aug. 12.
- Schroeder, Herman E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Laminated structures. 2,425,349; Aug. 12.
- Schroeder, Herman E., Brandywine Hundred, and C. J. Mighton, Christiana Hundred, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Improved synthetic rubbers. 2,422,932; June 24.
- Schroeder, John A.: *See*—  
Lewis, Francis B., and Schroeder.
- Schroeder, Walter H., Los Angeles, Calif. Rotary internal-combustion engine. 2,413,734; Jan. 7.
- Schroeder, Walter H., Los Angeles, Calif. Kite. 2,422,804; June 24.
- Schroeder, Wesley D.: *See*—  
Coleman, Gerald H., and Schroeder.
- Schroetter, Arnold, Newark, N. J. Combined rail tie plate, clamp, and sleeve. 2,432,816; Dec. 16.
- Schruben, Nicholas M., Chicago, Ill. Game board. 2,424,123; July 15.
- Schrumm, Jewett F., West Newton, assignor to Metals & Controls Corporation, Attleboro, Mass. Apparatus for vibrating metals during casting. 2,419,373; Apr. 22.
- Schrumm, Jewett F., West Newton, assignor to Metals & Controls Corporation, Attleboro, Mass. Atmospheric control means. 2,430,191; Nov. 4.
- Schubert, Alvin E., and J. C. Haelen, assignors to Eastman Kodak Company, Rochester, N. Y. Copyholder. 2,418,670; Apr. 8.
- Schubert, Anthony J., Raymondville, Tex. Control mechanism for aircraft. 2,418,869; Apr. 1.
- Schubring, Albert A., Hollywood, Calif. Punch. 2,432,176; Dec. 9.
- Schuchardt, Ernest, Durham, N. C. Slicing machine. 2,417,617; Mar. 18.
- Schuck, Raymond W., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Bearing for vertical shafts. 2,427,748; Sept. 23.
- Schuckers, John M., assignor to The Hilliard Corporation, Elmira, N. Y. Clutch. 2,432,591; Dec. 16.
- Schueler, Lyle B.: *See*—  
Rowand, Will H., Schueler, and Loughin.
- Schuerger, Edward, Cleveland, Ohio. Surface figure toy. 2,432,817; Dec. 16.
- Schug, John B., Paragould, Ark. Rotary cultivator. 2,420,500; May 13.
- Schulmann, Christian, Brooklyn, N. Y. Fitting for luggage. 2,415,536; Feb. 11.
- Schuldiner, Jacob A., Brookline, Mass. Electric laboratory heater. 2,429,241; Oct. 21.
- Schüle, Georges C., Buenos Aires, Argentina. Device for supplying air to vehicle tires. 2,418,730; Apr. 8.
- Schulein, Albert, New York, N. Y. Device for carrying luggage and other articles. 2,419,422; Apr. 22.
- Schuler Company, assignee: *See*—  
Waldeck, Christ L., and Dever.
- Schuler, George, Jr., Crestwood, assignor to Preformed Parts, Inc., Pleasantville, N. Y. Earring. 2,423,905; July 15.
- Schuler, Otto R., Detroit, assignor to Calumet and Hecla Consolidated Copper Company, Calumet, Mich. Apparatus for forming annular fins on tubing. 2,429,491; Oct. 21.
- Schuler, Reginald G.: *See*—  
Potts, Louis M., and Schuler.
- Schulman, Earl L., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. High-voltage dynamo-electric machine winding. 2,427,749; Sept. 23.
- Schulman, James H.: *See*—  
Von Hippel, Arthur, and Schulman.
- Schulman, Louis, deceased, Brooklyn, by S. Schulman, administratrix; said L. Schulman assignor of thirty-three and one-third per cent to M. E. Sparrow, and said S. Schulman, administratrix, assignor of eleven and two-thirds per cent to M. E. Sparrow, New York, N. Y. Catamenial bandage making machine. Re. 22,935; Nov. 18.
- Schulman, Stella, administratrix: *See*—  
Schulman, Louis.
- Schulte, Bernard F., Highland Park, assignor of one-half to V. M. Langsett, Chicago, Ill. Collapsible golf club carrier. 2,425,688; Aug. 12.
- Schulte, Charles F., Columbus, Ohio. Slipper. 2,427,882; Sept. 23.
- Schulte, John O., Cincinnati, Ohio, assignor to Vonnegut Moulder Corporation. Centrifugally expansible abrasive wheel. 2,415,308; Feb. 4.
- Schultheis, Frank J., Lakewood, assignor to Republic Steel Corporation, Cleveland, Ohio. Foldable baby carriage frame. 2,432,489; Dec. 9.
- Schults, William C., New York, N. Y. Receptacle for safety razors and blades. 2,432,818; Dec. 16.
- Schultz, Arthur B., assignor to All American Aviation, Inc., Wilmington, Del. Winch construction. 2,423,906; July 15.
- Schultz, Arthur B., assignor to All American Aviation, Inc., Wilmington, Del. Device for launching aircraft or other bodies into the air. 2,433,488; Dec. 30.
- Schultz, Edward, assignor to The Nagel-Chase Mfg. Co., Chicago, Ill. Wrench. 2,421,038; May 27.
- Schultz, Edward A., assignor to The Cleveland Welding Company, Cleveland, Ohio. Bicycle stand. 2,414,903; Jan. 28.
- Schultz, Elmer A., Euclid, Ohio, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio. Printing plate and carrier therefor. 2,425,350; Aug. 12.
- Schultz, Eugene L., Woodside, Long Island, N. Y. Apparatus for circulating solutions. 2,433,532; Dec. 30.
- Schultz, Frank: *See*—  
Antrim, Louis C., and Schultz.
- Schultz, George E., and E. A. Morrissey, assignors to Silver Creek Precision Corporation, Silver Creek, N. Y. Electric outboard motor. 2,429,774; Oct. 28.
- Schultz, Henry F., Flushing, Mich. Trailer hitch. 2,425,833; Aug. 19.
- Schultz, Irving M.: *See*—  
Holmes, John R., Winter, and Schultz.
- Schultz, Mortimer A.: *See*—  
Nagel, George W., and Schultz.
- Schultz, Oswald R., New York, N. Y., and R. F. Nestle, Ardmore, and M. J. Romano, assignors to The Philadelphia Inquirer Co., Philadelphia, Pa. Gravure plate. 2,431,710; Dec. 2.
- Schultz, Paul J., Upper Darby, assignor, by mesne assignments, to National Foam System, Inc., Philadelphia, Pa. Spray nozzle for fire extinguishing and other purposes. 2,416,226; Feb. 18.
- Schultz, Roy M.: *See*—  
Hasselhorn, Walter C., and Schultz.
- Schultz, William O., South Milwaukee, assignor to Line Material Company, Milwaukee, Wis. Protective equipment for circuit makers and breakers. 2,421,718; June 3.
- Schultz, William O., assignor to Line Material Company, South Milwaukee, Wis. Fuse construction. 2,423,258; July 1.
- Schultz, William O., South Milwaukee, assignor to Line Material Company, Milwaukee, Wis. Fuse construction. 2,429,527; Oct. 21.
- Schultze, Fred: *See*—  
King, John M., Young, Reinhard, and Schultze.
- Schulz, Dale M.: *See*—  
Blair, Charles M., Jr., and Schulz.
- Schulz, Gustav E., Auburn, and H. H. Fonda, Skaneateles, assignors to Nye-Wait Company, Inc., Auburn, N. Y. Pile fabric loom and pile wire therefor. 2,414,064; Jan. 7.
- Schulz, Herman, Chicago, Ill. Tripod. 2,430,649; Nov. 11.
- Schulz, Otto F., Evanston, Ill. Automotive efficiency indicating instrument. 2,430,413; Nov. 4.
- Schulze, Ferdinand: *See*—  
Blake, Ralph K., Stanton, and Schulze.
- Schulze, Joseph W., assignee: *See*—  
Elsner, Edwin C.
- Schulze, Walter A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Alkylation of aromatic hydrocarbons. 2,419,599; Apr. 29.
- Schulze, Walter A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Alkylation process. 2,419,796; Apr. 29.
- Schulze, Walter A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Catalytic conversion of hydrocarbons. 2,423,907; July 15.
- Schulze, Walter A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Hydrocarbon conversion. 2,425,960; Aug. 19.
- Schulze, Walter A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Producing mercaptans from olefins and hydrogen sulfide. 2,426,646; Sept. 2.
- Schulze, Walter A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of mercaptans. 2,427,309; Sept. 9.



- Schulze, Walter A., and C. J. Helmers, Bartlesville, Okla., assignors to Phillips Petroleum Company. Catalytic conversion of hydrocarbon oil. 2,415,537; Feb. 11.
- Schulze, Walter A., and W. W. Crouch, Bartlesville, Okla., assignors to Phillips Petroleum Company. High molecular weight alkyl disulfides. 2,415,851; Feb. 18.
- Schulze, Walter A., and W. W. Crouch, Bartlesville, Okla., assignors to Phillips Petroleum Company. High molecular weight organic disulfides. 2,415,852; Feb. 18.
- Schulze, Walter A., Bartlesville, Okla., and J. P. Lyon, Jr., Phillips, Tex., assignors to Phillips Petroleum Company. Alkylation process. 2,416,022; Feb. 18.
- Schulze, Walter A., and C. J. Helmers, Bartlesville, Okla., assignors to Phillips Petroleum Company. Catalytic conversion of hydrocarbon oil. 2,416,023; Feb. 18.
- Schulze, Walter A., and J. C. Hillyer, Bartlesville, Okla., assignors to Phillips Petroleum Company. Recovery of unsaturated hydrocarbons. 2,416,647; Feb. 25.
- Schulze, Walter A., and W. N. Axe, Bartlesville, Okla., assignors to Phillips Petroleum Company. Boron fluoride recovery process. 2,419,504; Apr. 22.
- Schulze, Walter A., and J. E. Mahan, Bartlesville, Okla., assignors to Phillips Petroleum Company. Production of nitriles of unsaturated acids. 2,422,859; June 24.
- Schulze, Walter A., and J. E. Mahan, Bartlesville, Okla., assignors to Phillips Petroleum Company. Manufacturing acrylonitrile from acetylene and HCN. 2,425,267; Aug. 25.
- Schulze, Walter A., and W. N. Axe, Bartlesville, Okla., assignors to Phillips Petroleum Company. Catalytic alkylation of aromatic hydrocarbons. 2,425,839; Aug. 19.
- Schulze, Walter A., and W. W. Crouch, Bartlesville, Okla., assignors to Phillips Petroleum Company. Lower alkyl mercaptans as short-stopping agents in butadiene-styrene emulsion polymerization. 2,425,840; Aug. 19.
- Schulze, Walter A., and W. W. Crouch, Bartlesville, Okla., assignors to Phillips Petroleum Company. Manufacture of sulfur compounds. 2,426,647; Sept. 2.
- Schulze, Walter A., and W. W. Crouch, Bartlesville, Okla., assignors to Phillips Petroleum Company. Manufacture of sulfur compounds. 2,426,648; Sept. 2.
- Schulze, Walter A., and C. J. Helmers, Bartlesville, Okla., assignors to Phillips Petroleum Company. Catalytic hydrocarbon conversion process in the presence of steam. 2,428,532; Oct. 7.
- Schulze, Walter A., and J. C. Hillyer, Bartlesville, Okla., assignors to Phillips Petroleum Company. Alumina base dehydrogenation catalyst. 2,431,427; Nov. 25.
- Schumacher, Earle E.: *See—*
- Bouton, George M., and Schumacher.
- Schumacher, F. E., Company, The, assignee: *See—*
- Espenschied, Virgil F.
- Schumacher, Reuben J., Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa. Brake. 2,431,774; Dec. 2.
- Schumacker, Walter J., Valparaiso, Ind., assignor to The Indiana Steel Products Company, Chicago, Ill. Method of making composite permanent magnets. 2,432,819; Dec. 16.
- Schumaker, Arthur J.: *See—*
- Stephenson, Thomas W., and Schumaker.
- Schuman, Albert: *See—*
- Auxier, Robert W., Wachter, and Schuman.
- Schuman, Samuel, New York, N. Y. Fan hanger and like fixture support. 2,414,173; Jan. 14.
- Schumb, Walter C., Milton, and A. J. Stevens, Holliston, Mass., assignors, by mesne assignments, to United States of America, as represented by the Director, Office of Scientific Research and Development. Production of fluorine. 2,422,590; June 17.
- Schundler, F. E., & Co., Inc., assignee: *See—*
- Denning, Paul S.
- Schupbach, Rene M., Providence, R. I., and S. H. Kohen, Los Angeles, Calif.; said Schupbach assignor to said Kohen. Loose leaf-retaining clip for billfold assemblies. 2,419,092; Apr. 15.
- Schurter, Cornelius D., Long Beach, Calif. Direction signal for vehicles. 2,422,988; June 24.
- Schuster, Anton, Kirkwood, Mo. Sheathed knife. 2,419,168; Apr. 15.
- Schuster, Clarence A., Dayton, Ohio. Garment. 2,417,888; Mar. 25.
- Schuster, Curt: *See—*
- Reppe, Walter, Schuster, and Weiss.
- Schutte, August H., Hastings on Hudson, N. Y. Wax-oil separation. 2,429,430; Oct. 21.
- Schutte, August H., Hastings-on-Hudson, N. Y. Centrifugal separator with means for controlling discharge therefrom. 2,431,142; Nov. 18.
- Schutte, August H., Hastings-on-Hudson, assignor to The Lummus Company, New York, N. Y. Conveying fluids. 2,421,968; June 10.
- Schutte, August H., Hastings-on-Hudson, assignor to The Lummus Company, New York, N. Y. Fibrous catalyst system. 2,431,143; Nov. 18.
- Schütte, Hermann, Swissvale, Pa. Vehicle suspension. 2,427,927; Sept. 23.
- Schuttler, Gustave A., Dover, N. J. Screening device. 2,414,487; Jan. 21.
- Schwaderer, William C.: *See—*
- Eitzen, Louis C., and Schwaderer.
- Schwall, Chester F., Jr., assignor to The General Tire & Rubber Company, Akron, Ohio. Fender for ships, piers, and the like. 2,424,635; July 29.
- Schwalm, Theodore R.: *See—*
- Luckey, George P., and Schwalm.
- Schwartz, Alvin, New York, N. Y. Knitting machine and needle therefor. 2,419,856; Apr. 29.
- Schwartz, Barney, Brooklyn, N. Y. Pedal-operated, pail-mounted, self-opening mop wringer. 2,428,296; Sept. 30.
- Schwartz, Daniel M.: *See—*
- Atwood, Gilbert H., and Schwartz.
- Schwartz, David S.: *See—*
- Palmer, Edwin, and Schwartz.
- Schwartz, Elmer A., Shaker Heights, assignor to Republic Steel Corporation, Cleveland, Ohio. Operating open hearth furnaces. 2,417,951; Mar. 25.
- Schwartz, J. Leonard, assignee, et al.: *See—*
- Schwartz, John L.
- Schwartz, Jacob D., Pittsburgh, Pa. Apparatus for making dentures. 2,432,820; Dec. 16.
- Schwartz, John L., assignor to C. A. Rossmann, J. L. Schwartz, and H. Engelhardt, a co-partnership doing business as The Philadelphia Thermometer Company, Philadelphia, Pa. Adjustable thermostat switch. 2,421,292; May 27.
- Schwartz, Max., New York, N. Y. Crisscross back strap for slips and the like. 2,432,821; Dec. 16.
- Schwartz, Morris, and W. Castedello, assignors to The Kalart Company, Inc., Stamford, Conn. Electrically controlled camera. 2,421,396; June 3.
- Schwartz, Nathan R., Brooklyn, N. Y., assignor to Saran Research Corporation. Tamperproof hook and eye. 2,426,793; Sept. 2.
- Schwartz, William, assignor to La Marquise Footwear, Inc., New York, N. Y. Stitching. 2,427,023; Sept. 9.
- Schwarz, Benno, Norwich, England. Electric frequency converter. 2,420,266; May 6.
- Schwarz, David R.: *See—*
- Laufer, Louis, and Schwarz.
- Schwarz Engineering Company, Inc., The, assignee: *See—*
- Schwarz, Henry G.
- Schwarz, Henry G., Denver, Colo., assignor to The Schwarz Engineering Company, Inc., San Francisco, Calif. Treatment of fruit and vegetable juices. 2,425,689; Aug. 12.
- Schwarz Laboratories, Inc., assignee: *See—*
- Laufer, Louis, and Schwarz.
- Schwarze, Paul, St. Gallen, Switzerland. Ski fastening. 2,433,161; Dec. 23.
- Schwarzaupt, Paul J.: *See—*
- Baker, John H., and Schwarzaupt.
- Schwarzkopf, Paul, assignor to American Electro Metal Corporation, Yonkers, N. Y. Manufacturing composite structural materials. 2,422,439; June 17.
- Schwarzkopf, Vergil, La Grange, assignor to The Lathrop-Paulson Company, Chicago, Ill. Dump can. 2,414,212; Jan. 14.
- Schwarzmayr, Ludwig, San Francisco, Calif. Adjustable reflector. 2,433,241; Dec. 23.
- Schweda, Albert M.: *See—*
- Le Vesconte, Harold J., and Schweda.
- Schweich, Joseph H., assignor to Weil-Kalter Manufacturing Company, St. Louis, Mo. Sewing seam and making same. 2,426,057; Aug. 19.
- Schweickart, William M., Bay Village, Ohio, assignor to Iron Fireman Manufacturing Company, Portland, Ore. Central tuyere for stokers. 2,427,329; Sept. 9.
- Schweig, Sprengstoff-Fabrik A. G., assignee: *See—*
- Müller, Hans.
- Schweikher, Ernest W., Cleveland Heights, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Electrodepositing and heat-treating molybdenum-oxygen deposits. 2,417,133; Mar. 11.
- Schweikher, Ernest W., Cleveland Heights, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Electroplating nickel. 2,426,416; Aug. 26.
- Schweikher, Ernest W., Shaker Heights, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Anodizing iron group metals in lead sulfamate bath. 2,430,304; Nov. 4.
- Schweitzer, Carl E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of N-cycloalkenyl carbamates. 2,416,068; Feb. 18.
- Schweitzer, Frank J., Brea, Calif. Side packing floating ram gate. 2,427,073; Sept. 9.
- Schweitzer, Paul H., State College, Pa. Apparatus for indicating cyclic pressure fluctuations. 2,427,370; Sept. 16.
- Schweitzer, Thomas R.: *See—*
- Russ, Walter R., Hoffman, Schweitzer, and Dalby.
- Schweizer, M. Norman: *See—*
- Bigelow, Julian H., Harris, and Schweizer.
- Schweller, Edmund F., assignor to General Motors Corporation, Dayton, Ohio. Multiple temperature refrigerator. 2,416,777; Mar. 4.
- Schweller, Sylvester M., assignor to General Motors Corporation, Dayton, Ohio. Restrictor device for refrigerating apparatus. 2,418,671; Apr. 8.
- Schwenk, Ervin, Montclair, N. J., and E. Bloch and B. Whitman, New York, N. Y., assignors to Schering Corporation, Bloomfield, N. J. Preparing estradiol from equilin and intermediates obtained thereby. 2,418,603; Apr. 8.



- Schwennesen, Donald, Chicago, Ill., assignor to Essex Wire Corporation, Detroit, Mich. Electrical transformer. 2,430,738; Nov. 11.
- Schwennesen, Donald O.: *See*—  
Ilker, Elmer C., and Schwennesen.
- Schwinn, Frank W., Chicago, Ill. Folding handle bar for bicycles. 2,414,275; Jan. 14.
- Schwinn, Frank W., Chicago, Ill. Carrier attachment. 2,424,195; July 15.
- Schwinn, Frank W., Chicago, Ill. Chain shifting device for bicycles and the like. 2,431,513; Nov. 25.
- Schwitzer-Cummins Company, assignee: *See*—  
Beier, Kurt A.
- Schworer, William J., administrator: *See*—  
Wilson, Raymond W.
- Schworm, Louis, Jr., Washington, D. C. Electric food warmer. 2,428,996; Oct. 14.
- Schwyn, Edward G., Bryan, Ohio. Wire wrench. 2,424,370; July 22.
- Schymik, Walter H., Oreland, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Enclosed circuit breaker position indicator. 2,420,842; May 20.
- Sciaky, David, assignor to Welding Research, Inc., Chicago, Ill. Welding method and apparatus therefor. 2,415,708; Feb. 11.
- Sciaky, David, assignor to Welding Research, Inc., Chicago, Ill. Circuit interrupting device with condensers. 2,416,669; Mar. 4.
- Sciaky, David, assignor to Welding Research, Inc., Chicago, Ill. Electric valve converting system. 2,431,083; Nov. 18.
- Scientific and Industrial Research, The, Honorary Advisory Council for, assignee: *See*—  
Cambron, Adrien, and McKim.
- Scientific Nutrition Corporation, assignee: *See*—  
Chanin, Milton.
- Scientific Research and Development, Office for Emergency Management, as represented by the Director of the Office of, assignee: *See*—  
Brady, Edward L., and Glendenin.  
Elderfield, Robert C., and Head.  
Johnson, Paul R.  
Morrow, Charles T.  
Nier, Alfred O. C., Ney, and Inghram.  
Priest, Homer F., and Grosse.  
Schumb, Walter C., and Stevens.  
Veneklasen, Paul S.  
Wiener, Francis M.
- Scifres, Thomas W., Dumas, Ark. Weight operated switch. 2,428,246; Sept. 30.
- Scinta, Anthony C., assignor to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 2,418,559; Apr. 8.
- Scofield, Gilbert J., Loundonville, N. Y. Suction device. 2,428,921; Oct. 14.
- Scoggin, Elmer K., Golden Valley, assignor to Minneapolis Regulator Company, Minneapolis, Minn. Stoker control. Re. 22,898; July 15.
- Scogland, Charles A., assignor to The Studebaker Corporation, South Bend, Ind. Plastic sheet material and method. 2,426,058; Aug. 19.
- Scoles, Charles, Columbus, Ohio. Velocipede. 2,429,845; Oct. 28.
- Scoles, Graham J.: *See*—  
Dodds, J. M., and Scoles.
- Sconce, James S., assignor to Hooker Electrochemical Company, Niagara Falls, N. Y. Purification of certain perchlorolefins. 2,418,109; Apr. 1.
- Scophony Corporation of America, assignee: *See*—  
Rosenthal, Adolph H.
- Score, Leslie H., and J. C. Haepf, Jr., North Hollywood, Calif., assignors, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Tube clamp. 2,427,883; Sept. 23.
- Scott, Albert B.: *See*—  
Stillman, William B., and Scott.
- Scott, Arthur L., Columbus, Ohio. Receptacle closure. 2,425,841; Aug. 19.
- Scott Aviation Corporation, assignee: *See*—  
Aulick, Maxwell K.  
Benzel, Howard A.
- Scott, Carl W., Ferguson, Mo., assignor to Curtiss-Wright Corporation. Propeller releasing mechanism. 2,432,941; Dec. 16.
- Scott, Carlyle H., Forest Hills, assignor to The Safety Truck Tank Corporation, New York, N. Y. Venting and discharge valve for tanks. 2,430,956; Nov. 18.
- Scott, Donald W., Schenectady, N. Y., assignor to General Electric Company. Polycyclic methylpolysiloxanes. 2,418,051; Mar. 25.
- Scott, Donald W., Schenectady, N. Y., assignor to General Electric Company. Soluble dimethyl silicone elastic products prepared by the use of ferric chloride. 2,430,032; Nov. 4.
- Scott, Eben L., Mission, Kans. Toy rocker. 2,417,618; Mar. 18.
- Scott, Eben L., Mission, Kans. Dental mirror and guard assembly. 2,419,733; Apr. 29.
- Scott, Edwin D.: *See*—  
Beems, Floyd E., and Scott.
- Scott, Francis P. D., assignor of one-half to Prior Stokers Limited, London, England. Grate or burner. 2,414,397; Jan. 14.
- Scott, Horatio J., Mayfair West, Johannesburg, Transvaal, Union of South Africa. Depilator. 2,413,998; Jan. 7.
- Scott, Jim, Crossroads, N. Mex. Apparatus for reconditioning of dry cell batteries. 2,424,059; July 15.
- Scott, John E.: *See*—  
Lewis, Arthur W., and Schott.
- Scott, John H., Tulsa, Okla. Piano amplifier. 2,416,225; Feb. 18.
- Scott, John H., Houston, Tex. Drafting machine rolling contact distance calculator. 2,421,581; June 3.
- Scott, Kenneth M., Thornaby on Tees, and O. Abisch, London, assignors to Head, Wrightson & Company Limited, Thornaby on Tees, England. Multistorey building construction. 2,424,371; July 22.
- Scott, Lawrence K., Louisville, Ky., assignor to Devoe & Reynolds Company, Inc. Rosin-maleic anhydride-non-conjugated fatty oil varnishes. 2,417,327; Mar. 11.
- Scott, Lester A., Wheatridge, assignor to himself and N. D. Scott, Denver, Colo. Desk convertible into carrying cases. 2,431,711; Dec. 2.
- Scott, Milton J., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Dicyandimide-aldehyde product. 2,427,512; Sept. 16.
- Scott, Nancy D., assignee: *See*—  
Scott, Lester A.
- Scott, Norman D.: *See*—  
Hinegardner, Wilbie S., and Scott.
- Scott Paper Company, assignee: *See*—  
Ostertag, Harry M., and Boylan.
- Scott, Ruth P., executrix: *See*—  
Scott, Winfield.
- Scott, Samuel L.: *See*—  
Lindsey, Richard V., Jr., and Scott.
- Scott, Samuel L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Vulcanization of halogenated polymers of ethylene. 2,416,069; Feb. 18.
- Scott, Walter A., and Donald F. Ayres, Poughkeepsie, assignors to The De Laval Separator Company, New York, N. Y. Means for causing electric impulses. 2,428,247; Sept. 30.
- Scott, William H., Rochester, N. Y. Trap cleaner. 2,430,739; Nov. 11.
- Scott, William M., Jr., Bryn Mawr, assignor to I. T. E. Circuit Breaker Company, Philadelphia, Pa. Electromagnetic structure for circuit breakers. 2,416,458; Feb. 25.
- Scott, William M., Jr., Bryn Mawr, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Arc chute. 2,417,134; Mar. 11.
- Scott, William M., Jr., Bryn Mawr, assignor to I. T. E. Circuit Breaker Company, Philadelphia, Pa. Circuit breaker locking device. 2,421,853; June 10.
- Scott, William M., Jr., Bryn Mawr, assignor to I. T. E. Circuit Breaker Company, Philadelphia, Pa. Air blast circuit breaker. 2,422,805; June 24.
- Scott, William M., Jr., Bryn Mawr, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Circuit interrupter and control therefor. 2,426,243; Aug. 26.
- Scott, William M., Jr., Bryn Mawr, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Arc chute. 2,427,074; Sept. 9.
- Scott & Williams, Incorporated, assignee: *See*—  
Grothey, Ivan W., and Page.  
Lawson, Robert H.  
Moody, Robert J., and Taylor.  
Sheppard, Harry N.
- Scott, Winfield, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Rubber hydrochloride compositions. 2,414,065; Jan. 7.
- Scott, Winfield, deceased, by R. P. Scott, executrix, Akron, Ohio, assignor to Wingfoot Corporation. Isomerization. 2,414,066; Jan. 7.
- Scovill Manufacturing Company, assignee: *See*—  
Barlow, William H.  
Chochol, Joseph.  
Collins, Edward T.  
Fenton, Paul E.  
Holihan, Irving T.  
Jones, Edmund D.  
Killorin, Francis O.  
Mackey, Alexander S.  
Seaver, Donald A.  
Seyfried, Arthur W.  
Spender, Donald L.  
Spender, Sidney I., and Reuter.  
Wild, Henry W.
- Scoville, Henry F., Kansas City, and F. B. Clay, Jr., Independence, Mo., assignors to Remington Arms Company, Inc., Bridgeport, Conn. Die set. 2,432,449; Dec. 9.
- Scranton, Charles J., La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Implement draft device and shaft support thereon. 2,429,492; Oct. 21.
- Scranton, Charles J., La Porte, Ind., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Sickle guard. 2,431,663; Nov. 25.
- Scranton, Charles J., and R. L. Worrell, La Porte, Ind., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Harvester-thresher. 2,433,162; Dec. 23.
- Screw Conveyor Corporation, assignee: *See*—  
Escher, Edward P.



- Scribner, Allison K., and F. W. Wilder, Portsmouth, Va., assignors, by mesne assignments, to Phillips Petroleum Company. Manufacture of resins from sulfur dioxide and unsaturated organic compounds. 2,432,686; Dec. 16.
- Scribner, Benjamin F., Berkeley, Calif. Determination of graphitic carbon. 2,421,467; June 3.
- Scribner, Kenneth R., Ipswich, assignor to Sylvania Electric Products Inc., Salem, Mass. Supporting device for lighting fixtures. 2,433,819; Dec. 30.
- Scrimgeour, Robert B., Trenton, N. J. Abrasive wheel. 2,414,981; Jan. 28.
- Scripto Inc., assignee: *See*—  
Smith, Blanchard D.
- Scripture, Edward W., Jr., Shaker Heights, Ohio. Cement composition. 2,418,431; Apr. 1.
- Scrivener, Arthur, Birmingham, England, assignor to Landis Machine Company, Waynesboro, Pa. Centerless grinding machine. 2,427,024; Sept. 9.
- Scrymgeour, Harper D., Coronado, assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Cowling for aircraft engines. 2,424,335; July 22.
- Sculi, Herbert G., New York, assignor to Eastman Kodak Company, Rochester, N. Y. Dyeing textile materials comprising a cellulose carboxylic ester with vat dyes. 2,424,857; July 29.
- Scullin, Carl H.: *See*—  
Dailey, Hampton J., and Scullin.
- Scullin, Carl H., East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. External anode with cooling fins. 2,431,144; Nov. 18.
- Scully, Charles T.: *See*—  
Chatterjea, Prafulla K.
- Scully, Charles T., and L. W. Houghton, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Radio receiver. 2,417,844; Mar. 25.
- Scully, Frank P., Cambridge, and A. E. Mathey, Allston, assignors to Scully Signal Co., East Cambridge, Mass. Liquid level indicating means. 2,429,280; Oct. 21.
- Scully Signal Co., assignee: *See*—  
Scully, Frank P., and Mathey.
- Seagram, Joseph E., & Sons, Inc., assignee: *See*—  
Coles, Harold W.
- Grubb, Henry W., O'Hara, and Atwood.
- Schmitt, Robert O.
- Sealdsweet Sales Association, assignee: *See*—  
Monroe, Charles Z.
- Sealed Power Corporation, assignee: *See*—  
Ballard, John H.
- Sealed Power Corporation, assignee: *See*—  
Olson, Holly M.
- Sealol Corporation, assignee: *See*—  
Bottomley, Frank.
- Sealtag, Inc., assignee: *See*—  
Artzt, William, and Rubinoff.
- Seaman, Joseph W., Kennett Square, Pa., assignor to General Electric Company. Electric circuit interrupter. 2,429,846; Oct. 28.
- Seaman, Robert V., Denver, Colo. Differential ionic analyzer. 2,422,264; June 17.
- Seaman, William, assignor to American Cyanamid Company, New York, N. Y. Temperature compensator for refractometers. 2,421,854; June 10.
- Seaman, William, assignor to American Cyanamid Company, New York, N. Y. Temperature compensator for refractometer. 2,427,996; Sept. 23.
- Seamann, Franklin I., assignee: *See*—  
Mollenhour, Delbert C.
- Seamless Rubber Company, The, assignee: *See*—  
Crowley, Cornelius J.
- Flynn, William N.
- Sear, Arthur W., Stratford, Conn., assignor to General Electric Company. Compensation of frequency variation of oscillator caused by change in voltage source. 2,427,231; Sept. 9.
- Searle, Arthur M., London, England, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Manufacturing metal electric rectifiers. 2,428,043; Sept. 30.
- Searle, Norman E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Esters of hydroxyphenyl trichloromethyl carbinols. 2,426,417; Aug. 26.
- Searles, Amos, Moscow, Pa., and C. A. Swartz, Yonkers, N. Y. Idler roller for belt conveyors. 2,423,407; July 1.
- Searles, Amos, Moscow, Pa., and C. A. Swartz, Yonkers, N. Y. Cushioning roller for conveyor belts. 2,433,789; Dec. 30.
- Sears, Carl, Chevy Chase, Md. Golf club. 2,432,450; Dec. 9.
- Sears, Daniel S.: *See*—  
Westfahl, Jerome C., Sears, and Martindale.
- Sears, Raymond W., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,417,450; Mar. 18.
- Sears, Roebuck and Co., assignee: *See*—  
Boisselier, Earl D.
- Gifford, James T., and Esmay.
- Hohmann, Richard K.
- North, James E.
- Reed, Howard C.
- Zink, William L., Hauswirth, and Geistwhite.
- Sears, William R., Inglewood, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Tailless airplane. 2,416,958; Mar. 4.
- Seaver, Donald A., West Cheshire, assignor to Scovill Manufacturing Company, Waterbury, Conn. Gland nut. 2,417,799; Mar. 18.
- Seaver, Donald A., West Cheshire, assignor to Scovill Manufacturing Company, Waterbury, Conn. Detachable brush ferrule for lipstick carrier cups. 2,426,418; Aug. 26.
- Seavey, Frederick R., Alton, assignor to Olin Industries, Inc., East Alton, Ill. Explosives. 2,415,045; Jan. 28.
- Seavey, Frederick R., Alton, Ill., assignor to Olin Industries, Inc. Blasting cap. 2,420,201; May 6.
- Sebal, Joseph F., Bloomfield, assignor to Worthington Pump and Machinery Corporation, Harrison, N. J. Water purifying apparatus having inlet water spray nozzles and means to direct steam into the paths of the water. 2,427,422; Sept. 16.
- Sebastian, Edward, Clayton, assignor to Orchard Paper Company, St. Louis, Mo. Portable wrapping device for newspapers. 2,426,749; Sept. 2.
- Sebastian, Richard H., Gautier, Miss. Bandage for the tip and nail area of the finger. 2,431,203; Nov. 18.
- Sebell, Harry, Marblehead, Mass., assignor to Bell Products Corporation, Boston, Mass. Screw top container. 2,414,420; Jan. 14.
- Sebell, Harry, Marblehead, assignor to Bell Products Corporation, Boston, Mass. Container. 2,415,609; Feb. 11.
- Sebok, Joseph B., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Air cleaner. 2,414,904; Jan. 28.
- Sebok, Joseph B., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Air cleaner. 2,416,851; Mar. 4.
- Sèchaud, Roger G., and A. N. F. Metz, Paris, France. Making reinforced concrete arches. 2,415,709; Feb. 11.
- Secor, Robert B.: *See*—  
Gary, Wright W., and Secor.
- Secor, Robert B., South Gate, assignor to Filtrrol Corporation, Los Angeles, Calif. Thermal preconditioning catalyst in hydrocarbon conversion. 2,432,822; Dec. 16.
- Security Machine Products Company, assignee: *See*—  
Green, Edward A.
- Sedacca, Albert, and S. T. Phillips, New York, N. Y. Garment hanger. 2,423,408; July 1.
- Seder, Leonard A.: *See*—  
Smith, Cleveland S., Jr., and Seder.
- Sederberg, Norman W.: *See*—  
Lewis, Jacob D., Troster, and Sederberg.
- Sedgley, Grace E., Alexandria, Va. Method and apparatus for forming plaits. 2,415,375; Feb. 4.
- Sedgwick, Robert K., assignor to American Steel Foundries, Chicago, Ill. Valve arrangement. 2,423,120; July 1.
- Sédille, Marcel H. L., assignor to Société Rateau (Société Anonyme), Paris, France. Regulating thermal gas turbine motive unit used for driving electric direct current generators. 2,432,177; Dec. 9.
- Sedlak, John P., Jr.: *See*—  
Kuhn, Max O., and Sedlak.
- Sedore, Ernest C., Mount Albert, Ontario, Canada. Manure loader. 2,427,575; Sept. 16.
- Sedwick, Matthew M., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Container fill packing apparatus. 2,432,823; Dec. 16.
- Sedwick, Matthew M., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Solder splash eliminator. 2,433,068; Dec. 23.
- See, Theodore S., Hammond, Ind., J. E. Tegarden, Chicago, Ill., A. Williams, Munster, and W. G. See, assignors to Submerged Combustion Company of America, Inc., Hammond, Ind. Submerged combustion system. 2,432,942; Dec. 16.
- See, Walter G.: *See*—  
See, Theodore S., Tegarden, Williams, and See.
- Seeburg, J. P., Corporation, assignee: *See*—  
Anderson, Joseph H.
- Eakins, John F.
- Jensen, Herman G.
- Kenney, Mahlon W., and Davis.
- Winkler, Marion R.
- Seefeldt, Lawrence: *See*—  
Hansen, Harold, and Seefeldt.
- Seeger, Edwin W.: *See*—  
Reeves, James B., and Seeger.
- Seeger Refrigerator Company, assignee: *See*—  
Richard, William E.
- Seeger-Sunbeam Corporation, assignee: *See*—  
Richard, William E.
- Richard, William E., and Kennedy.
- Seegers, Walter H., assignor to Parke, Davis & Company, Detroit, Mich. Blood coagulant and preserving same. 2,433,299; Dec. 23.
- Seeley, Stuart W., Roslyn Heights, N. Y., assignor to Radio Corporation of America. Selective radio frequency control system. 2,428,297; Sept. 30.
- Seeloff, Melvin M., assignor to The Taylor-Winfield Corporation, Warren, Ohio. Flash welder construction. 2,430,787; Nov. 11.
- Seely, Thomas H., Melrose, and F. E. Stratton, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Dieing-out machine. 2,421,809; June 10.



- Seemuller, Elmer F., Philadelphia, Pa. Forming designs in knitted or woven fabric or synthetic polyamide fibers such as nylon. 2,424,124; July 15.
- Seeewer, Paul W., Rugby, assignor to The English Electric Company Limited, London, England. Swivelling bladed adjustable pitch propeller. 2,422,138; June 10.
- Sefried, Harry H., II, assignor to Olin Industries, Inc., New Haven, Conn. Support for rifles and other shoulder firearms. 2,420,267; May 6.
- Segal, Jacob H., Chicago, Ill., assignor to Etron Industries, Inc. Educational toy. 2,416,959; Mar. 4.
- Segal, Samuel: *See*—  
Lutz, Eugene, and Segal.
- Segal, Samuel, New York, N. Y., assignor to Wilson-Jones Company, Chicago, Ill. Punch. 2,415,538; Feb. 11.
- Segal, Samuel, New York, N. Y., assignor to Wilson-Jones Company, Chicago, Ill. Punch. 2,415,539; Feb. 11.
- Segal, Samuel, New York, N. Y., assignor to Pioneer Suspender Company, Philadelphia, Pa. Key retainer. 2,424,775; July 29.
- Segal, Samuel, New York, N. Y., assignor to Wilson-Jones Co., Chicago, Ill. Coupling. 2,433,298; Dec. 23.
- Segard, Edwin S., San Francisco, Calif. Power transmission mechanism. 2,432,077; Dec. 2.
- Segerstrom, Carl A., Jr., Teaneck, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Cathode structure. 2,421,039; May 27.
- Segschneider, Rudolph G., Yonkers, and H. H. Kaufman, New York, N. Y. Crown mellowers. 2,427,232; Sept. 9.
- Segsworth, Robert S., assignor to General Engineering Company (Canada) Limited, Toronto, Ontario, Canada. Rotary variable speed hydraulic transmission. 2,417,218; Mar. 11.
- Segur, Daniel K., assignor to Donner-Hanna Coke Corporation, Buffalo, N. Y. Removal of muck from wash oil. 2,418,988; Apr. 15.
- Seibel, Phillip H., St. Louis, Mo. Artificial floral display. 2,432,632; Dec. 16.
- Seiberling Rubber Company, assignee: *See*—  
Schrack, Harry P.
- Seide, Max: *See*—  
Willett, Leon E., and Seide.
- Seidel, Robert, assignor to Irwin W. Millard and E. W. Beatty, copartners, doing business under the firm name of Industrial Gloves Company, Danville, Ill. Glove and palm therefor. 2,425,129; Aug. 5.
- Seidler, Leon S., Chicago, Ill. Depositor and applicator. 2,430,250; Nov. 4.
- Seidman, Emil, Cleveland, Ohio. Vernier for slide rules. 2,424,713; July 29.
- Seidman, Irving, assignee: *See*—  
Tarnay, Eugene.
- Selfried, Anthony G., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Electric switch. 2,433,163; Dec. 23.
- Seller, John, Prescott, Ariz. Clip. 2,431,084; Nov. 18.
- Seltz, Friedrich W., Granville, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Slip responsive field switching system for reversible synchronous motors. 2,430,650; Nov. 11.
- Seltz, John H., Astoria, Long Island, N. Y. Knockdown baby chair. 2,418,731; Apr. 8.
- Seltz, Joseph K., Los Angeles, Calif. Belt. 2,430,957; Nov. 18.
- Seljarto, Lester, Richmond Hill, N. Y. Expandable chamber motor or compressor with longitudinal shaft and angularly inclined pistons geared thereto. 2,419,600; Apr. 29.
- Selander, Karl E. U.: *See*—  
Sundgren, Stig P. O., and Selander.
- Selas Corporation of America, assignee: *See*—  
Berger, Carl R., Jr.
- Selby, Eugene O., Collingswood, N. J., assignor to Radio Corporation of America. Ultra high frequency wide-band tuner. 2,427,110; Sept. 9.
- Selby, John: *See*—  
Van Denberg, Thomas F., and Selby.
- Selby, Lloyd L., Denver, Colo. Trousers stretcher. 2,423,521; July 8.
- Selden, Irving H., Tacoma, Wash. Rotary abutment internal combustion engine with independently rotating valve in the abutment. 2,418,793; Apr. 8.
- Selectronics, Inc., assignee: *See*—  
Monnia, Eugene F.
- Selenium Corporation of America, assignee: *See*—  
Lidow, Eric, and Burlin.
- Lidow, Eric.
- Self-Priming Pump & Engineering Co., Limited, assignee: *See*—  
Watson, Frederick J., and Moutran.
- Seligmann, Arthur, Newark, N. J., and K. W. Schartel, New York, assignors to J. H. H. Voss, Co., Bronx, N. Y. Valve. 2,420,056; May 6.
- Selman, Roland W., Jr., Kansas City, Kans., and H. S. Myers, assignors to Campbell-Taggart Research Corporation, Kansas City, Mo. Treatment of malt sprouts for use in bakeries. 2,420,567; May 13.
- Selmi, Luciano G., Detroit, and C. L. Altenburger, Dearborn, assignors to Great Lakes Steel Corporation, Ecorse, Mich. Alloy steel. 2,416,648; Feb. 25.
- Selmi, Luciano G., Detroit, and C. L. Altenburger, Dearborn, assignors to Great Lakes Steel Corporation, Ecorse, Mich. Alloy steel. 2,416,649; Feb. 25.
- Selner, Rudolph A.: *See*—  
Bauer, Jordan V., and Selner.
- Selquist, Rolf, McKeesport, assignor to Copperweld Steel Company, Glassport, Pa. Rail bond or the like. 2,416,883; Mar. 4.
- Seltman, Charlotte von G., assignee: *See*—  
Stephens, Thomas J.
- Seltzer, Clifford S., assignor to The Taylor-Winfield Corporation, Warren, Ohio. Welding machine. 2,414,905; Jan. 28.
- Seltzer, Clifford S., assignor to The Taylor-Winfield Corporation, Warren, Ohio. Sheet feeding and notching. 2,414,906; Jan. 28.
- Seltzer, Clifford S., assignor to The Taylor-Winfield Corporation, Warren, Ohio. Sheet feeding apparatus. 2,431,514; Nov. 25.
- Seltzer, Clifford S., assignor to The Taylor-Winfield Corporation, Warren, Ohio. Tubular body maker and conveyor. 2,432,490; Dec. 9.
- Seltzer, Julius, Chicago, Ill. Receptacle for storing and dispensing discs used as game counters or the like. 2,428,907; Oct. 14.
- Selzer, John, and S. G. Johnson, Fort Wayne, Ind., assignors to International Harvester Company. Tire carrier. 2,417,952; Mar. 25.
- Semar, Harold W., Drexel Hill, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Gear timing apparatus. 2,431,428; Nov. 25.
- Seme, John J., Maple Heights, Ohio. Ash tray. 2,426,528; Aug. 26.
- Semeran, Walter J., Alloy, W. Va., assignor to General Aniline & Film Corporation, New York, N. Y. Range finder coupling for cameras. 2,420,018; May 6.
- Semmler, Elmer F., Detroit, Mich. Coin controlled mechanism. 2,416,665; Mar. 4.
- Simple, John B., Sewickley, Pa. Fuse for projectiles. 2,415,262; Feb. 4.
- Simple, John B., Sewickley, Pa. Fuze for projectiles. 2,427,977; Sept. 23.
- Seng Company, assignee: *See*—  
Bolens, Harry W.
- Seng Company, The, assignee: *See*—  
Fox, Martin.
- Senior, John H., Germantown, assignor to Proctor & Schwartz, Inc., Philadelphia, Pa. Textile fibre blending and distributing apparatus and method. 2,433,790; Dec. 30.
- Senkewitz, John: *See*—  
Moyer, Howard R., and Senkewitz.
- Senkowski, Alexander, Cheltenham, England. Sleeve balancing arrangement for radial engines. 2,421,164; May 27.
- Senkus, Murray, Terre Haute, Ind., assignor to Commercial Solvents Corporation. Acetals of nitro alcohols. 2,415,046; Jan. 28.
- Senkus, Murray, Terre Haute, Inc., assignor to Commercial Solvents Corporation. Insect-controlling compositions and controlling insects thereby. 2,415,047; Jan. 28.
- Senkus, Murray, assignor to Commercial Solvents Corporation, Terre Haute, Ind. Aliphatic 2-oxa-1,5-pentanediol diesters. 2,416,024; Feb. 18.
- Senkus, Murray, assignor to Commercial Solvents Corporation, Terre Haute, Ind. Process for preparation of 2,2-dialkyl-1,3-propanediamines. 2,418,237; Apr. 1.
- Senkus, Murray, assignor to Commercial Solvents Corporation, Terre Haute, Ind. Preparation of acetone ketals. 2,419,505; Apr. 22.
- Senkus, Murray, assignor to Commercial Solvents Corporation, Terre Haute, Ind. Alkyl and hydroxyalkyl nitro amines and preparing them. 2,419,506; Apr. 22.
- Senkus, Murray, assignor to Commercial Solvents Corporation, Terre Haute, Ind. Preparing nitro amines. 2,421,165; May 27.
- Senkus, Murray, assignor to Commercial Solvents Corporation, Terre Haute, Ind. Amines and preparing. 2,426,375; Aug. 26.
- Senn Corporation, assignee: *See*—  
Coake, Charles F.
- Senn, Jurg A., Washington, D. C. Colorimeter. 2,424,858; July 29.
- Sennewald, E. Francis, St. Louis, Mo. Rodent and insect poison. 2,420,568; May 13.
- Sensel, Eugene E.: *See*—  
Pevere, Ernest F., Hatch, and Sensel.
- Stewart, Meredith M., Garrett, and Sensel.
- Sensel, Eugene E., Beacon, assignor to The Texas Company, New York, N. Y. Isomerization of normal paraffins. 2,425,268; Aug. 5.
- Sensel, Eugene E., Beacon, and R. A. Beck, Glenham, assignors, by mesne assignments, to The Texas Company, New York, N. Y. Catalytic conversion process. 2,414,276; Jan. 14.
- Sensel, Eugene E., H. V. Atwell, and A. R. Goldsby, Beacon, assignors, by mesne assignments, to The Texas Company, New York, N. Y. Isomerization of normal paraffin hydrocarbons. 2,419,423; Apr. 22.
- Sensenig, Miles L., assignor to Dellinger Manufacturing Company, Lancaster, Pa. Roughage cutter and litter disposal device. 2,426,059; Aug. 19.
- Senter, Albert M., Jr., Albuquerque, N. Mex. Vacuum bottle. 2,419,291; Apr. 22.
- Sentivany, Kalman F., Hartford, Conn. Tire traction device. 2,414,067; Jan. 7.



- Sentry Company, The, assignee: *See*—  
Crocker, Percival B.
- Sepavich, Victor F.: *See*—  
Hooper, Leslie J., and Sepavich.
- Sepavich, Victor F., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Control for loom handwheels. 2,414,174; Jan. 14.
- Sepavich, Victor F., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electric weft detector for looms. 2,430,829; Nov. 11.
- Sepavich, Victor F., and J. C. Manoog, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Electronic weft detector for looms. 2,429,528; Oct. 21.
- Sepavich, Victor F., and J. C. Manoog, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Electronic weft detector for looms. 2,429,529; Oct. 21.
- Sepavich, Victor F., and J. C. Manoog, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Electric weft detector system for looms. 2,429,530; Oct. 21.
- Sepavich, Victor F., and J. C. Manoog, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Electronic weft detector for looms. 2,431,429; Nov. 25.
- Sepavich, Victor F., and J. C. Manoog, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Electric weft detecting system for looms. 2,431,650; Nov. 25.
- Serafinovitch, Chris, Gary, Ind. Method and means of cleaning burners. 2,429,299; Oct. 21.
- Serdex, Inc., assignee: *See*—  
Coburn, William K.
- Seright, Carl G., Riverton, N. J., assignor to Radio Corporation of America. Amplifier system. 2,429,775; Oct. 28.
- Serio, Harry P., Elmira, N. Y. Cover for frying pans and the like. 2,428,894; Oct. 14.
- Sermon, George T.: *See*—  
Peake, John S., and Sermon.
- Serniuk, George E.: *See*—  
Kellog, Henry B., and Serniuk.
- Serrell John J., and L. D. Jones, assignors to The Sharples Corporation, Philadelphia, Pa. Oil circulating and feeding system. 2,432,130; Dec. 9.
- Servel, Inc., assignee: *See*—  
Anderson, Philip P., Jr.  
Dreier, Victor G.  
Edberg, Per.  
Nauert, Carl H.  
O'Brien, William L.  
Stangle, William H.  
Thomas, Albert R.
- Sery, George N., assignor to Tri-Clover Machine Co., Kenosha, Wis. Attaching ferrules. 2,429,076; Oct. 14.
- Sessions Clock Company, The, assignee: *See*—  
Kelly, Andrew W.
- Setter Bros., Inc., assignee: *See*—  
Perkins, Hiram A.
- Settle, Joseph F., Schenectady, N. Y., assignor to General Electric Company. Electric contact brush and connector. 2,429,847; Oct. 28.
- Setz, Walter H., Upper Darby, Pa., assignor to All American Aviation, Inc., Wilmington, Del. Tension testing machine. 2,420,202; May 6.
- Severance, Ralph H.: *See*—  
Koonz, John C., Quinell, and Severance.  
Quinell, La Vern E., Koonz, and Severance.
- Severance, Spencer W., assignor to S. Switlik, Trenton, N. J. Parachute and elastic suspension line. 2,422,440; June 17.
- Severin, Rosa, Forest Hills, N. Y. Hat. 2,421,654; June 3.
- Severson, Harry A., executor: *See*—  
Colman, Howard D.
- Severson, Iver W., Chalmette, assignor of one-half to H. Le Gros, New Orleans, La. Automatic can filling apparatus. 2,418,794; Apr. 8.
- Severson, Oscar S., Milwaukee, Wis. Fishing reel. 2,425,492; Aug. 12.
- Severy, Lawrence, A.: *See*—  
Ellis, Charles A., and Severy.
- Severy, Victor H., Atlanta, Ga. Automatic steering apparatus. 2,424,288; July 22.
- Sevin, Douglas B., Norwichtown, Conn., assignor to American Optical Company, Southbridge, Mass. Edging machine. 2,414,126; Jan. 14.
- Seward, Edgar C., South Arlington, Va. Cargo handling device. 2,416,352; Feb. 25.
- Sewell, James L., Akron, Ohio. Cap. 2,420,569; May 13.
- Seybold, Frederick W., Westfield, assignor to American Type Founders, Inc., Elizabeth, N. J. Manufacture of collapsible tubes. 2,426,060; Aug. 19.
- Seybolt, Alan U., Columbus, Ohio, assignor, by mesne assignments, to Electro Metallurgical Company. Alpha copper alloys. 2,422,752; June 24.
- Seyfried, Carl G., assignor to West Michigan Steel Foundry Company, Muskegon, Mich. Landing gear for trailers. 2,417,619; Mar. 18.
- Seyfried, Harold N.: *See*—  
Stewart, Gilbert, Brinkmann, and Seyferth.
- Seyferth, Harold N., East Detroit, and G. H. Cork, assignors to Ex-Cell-O Corporation, Detroit, Mich. Automatic thread grinding machine. 2,417,707; Mar. 18.
- Seyferth, Harold N., East Detroit, and G. Stewart, assignors to Ex-cell-O Corporation, Detroit, Mich. Boring machine. 2,421,655; June 3.
- Seyfried, Arthur W., Racine, Wis., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vacuum cleaner. 2,422,860; June 24.
- Seyfried, Wilson D., Wooster, Tex., assignor to Standard Oil Development Company. Production of diolefins. 2,416,227; Feb. 18.
- Seyfried, Wilson D., Wooster, and J. C. Schiller, Goose Creek, Tex., assignors to Standard Oil Development Company. Treatment of equipment. 2,425,842; Aug. 19.
- Seymour, George W., V. S. Salvin, and M. E. Miville, Cumberland, Md., assignors to Celanese Corporation of America. Dyestuff intermediates. 2,415,790; Jan. 7.
- Seymour, George W., and G. C. Ward, Cumberland, Md., assignors to Celanese Corporation of America. Flame and fireproofing of textile materials. 2,415,112; Feb. 4.
- Seymour, George W., and G. C. Ward, Cumberland, Md., assignors to Celanese Corporation of America. Flameproofing textile materials. 2,415,113; Feb. 4.
- Seymour, George W., and M. E. Martin, Cumberland, Md., assignors to Celanese Corporation of America. Cellulose esters. 2,432,341; Dec. 9.
- Seymour Manufacturing Co., The, assignee: *See*—  
Freed, Meyer L.
- Seymour, Raymond B., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Higher alkyl esters of chloromaleic acid. 2,426,902; Sept. 2.
- Seymour, Raymond B., and D. T. Mowry, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Dichlorobenzalacetone. 2,425,269; Aug. 5.
- Seymour, Raymond C.: *See*—  
Cook, James G., and Seymour.
- Shabaker, Hubert A., Media, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Apparatus for preparation of contact masses. 2,413,735; Jan. 7.
- Shade, Charles R., Gerardstown, W. Va. Tree and orchard spraying apparatus. 2,429,374; Oct. 21.
- Shafer, George E., assignor to The American Rolling Mill Company, Middletown, Ohio. Subdrain. 2,433,300; Dec. 23.
- Shafer, Homer J., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Water softening apparatus having a valve for admitting reactivating agent thereto. 2,432,178; Dec. 9.
- Shafer, Julius E., Chicago, Ill. Bearing assembly. 2,419,691; Apr. 29.
- Shafer, Samuel, Jr., Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis. Distributing apparatus for concrete mixers. 2,414,771; Jan. 21.
- Shaff, Aaron, New York, N. Y. Anti-water-hammer device. 2,416,025; Feb. 18.
- Shaffer, Alfred E., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Overshoe-boot. 2,425,208; Aug. 5.
- Shaffer, Paul B., Fort Wayne, Ind., assignor to General Electric Company. Speed governor. 2,416,122; Feb. 18.
- Shaffer, Quinton: *See*—  
Moreton, Stuart D., and Shaffer.
- Shaffer Tool Works, assignee: *See*—  
Greenlee, Joseph R.
- Shafor, Ralph W., New York, N. Y., assignor to The Dorr Company. Fractionation of solutes. 2,413,791; Jan. 7.
- Shallcross, Dewees H., Sr.: *See*—  
Houck, James P., and Shallcross.
- Shampaine, Hyman R., assignor to Leah Ree Shampaine, Clayton, Mo. Operating and examining table. 2,416,410; Feb. 25.
- Shampaine, Leah R., assignee: *See*—  
Shampaine, Hyman R.
- Shanahan, John T., Dubuque, Iowa. Bottle capper. 2,430,651; Nov. 11.
- Shanck, Roy B., Douglas Manor, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Heat responsive communication signal repeater. 2,414,488; Jan. 21.
- Shand and Jurs Company, assignee: *See*—  
Jurs, Peter C.
- Shandor, Marion E., and R. Donath, Pittsburgh, Pa.; said Donath assignor to said Shandor. Filter comprising a revolvable drum containing a mass of loose filter material. 2,418,989; Apr. 15.
- Shaner, Albert F., Unityville, Pa. Rope release. 2,432,342; Dec. 9.
- Shaner, Lyle E., Naugatuck, Conn., assignor to Box Blank Corporation, New York, N. Y. Stripping machine. 2,413,999; Jan. 7.
- Shank, Betty M., Minneapolis, Minn. Child's garment. 2,418,050; Mar. 25.
- Shanker, Meyer W., New York, N. Y. Protecting and restraining garment. 2,424,000; July 15.
- Shanley, Edwards S.: *See*—  
Kauffmann, Hans O., McEwen, Shanley, and Hopkins.
- Shanley, James J.: *See*—  
Wallis, Charles E., and Shanley.
- Shanley, William B., assignor to Universal Oil Products Company, Chicago, Ill. Polymerization of hydrocarbons. 2,420,327; May 13.
- Shanman, Jerome D., assignee: *See*—  
Branson, James E.
- Shann, Oscar A.: *See*—  
Black, Robert, Jr., Romanow, and Shann.



- Shann, Oscar A., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Adjustable step-by-step motor. 2,422,212; June 17.
- Shann, Oscar A., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Coin collector. 2,426,649; Sept. 2.
- Shannon, Howell F., Richmond, Va. Bottle cap. 2,433,629; Dec. 30.
- Shantz, Edgar M.: *See—*  
Embree, Norris D., and Shantz.
- Shape, Alfred C.: *See—*  
Miller, Fred M., Shape, McClelland, and Fay.
- Shaper, Harry B.: *See—*  
Shapiro, Harry B.
- Shapiro, Harry B., Cleveland, Ohio, now by judicial change of name H. B. Shaper, assignor to Sonotone Corporation, Elmsford, N. Y. Hearing aid amplifier. 2,420,686; May 20.
- Shapiro, Herbert: *See—*  
Forbes, Gordon D., and Shapiro.
- Shapiro, Jacob, Brooklyn, N. Y. Receptacle for douche appliances. 2,427,477; Sept. 16.
- Shapiro, Joseph, assignee: *See—*  
Garrison, Nelson E.
- Shapiro, Max S., Brooklyn, N. Y. Dental restoration, including artificial teeth and dentures. 2,420,570; May 13.
- Shapiro, Mitchell, Pittsfield, Mass. Apparatus for mounting photographs. 2,415,766; Feb. 11.
- Shapiro, Samuel G., New York, N. Y. Industrial table. 2,424,060; July 15.
- Shappirio, Sol, Washington, D. C. Betaine derivative compositions. 2,430,031; Nov. 4.
- Sharbaugh, William J., Wilkinsburg, and W. P. Yant, Murfreesville, assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Face piece. 2,416,411; Feb. 25.
- Sharma, Jagan N., West Los Angeles, Calif. Coloring whole citrus fruits. 2,425,073; Aug. 5.
- Sharp & Dohme, Incorporated, assignee: *See—*  
Moore, Maurice L.
- Moore, Maurice L., and Immediata.
- Sharp, Elmer R.: *See—*  
Mast, Gifford M., and Sharp.
- Sharp, Henry J., Upper Darby, Pa. Fluid pressure rotary motor with spring actuated swinging vanes. 2,430,251; Nov. 4.
- Sharp, John W., Muncie, Ind. Safety razor blade sharpener. 2,422,048; June 10.
- Sharp, Lorid G.: *See—*  
Abrams, Armand J., Baker, Kuhn, and Sharp.
- Sharp, Paul F., D. B. Hand, and E. S. Guthrie, assignors to Cornell Research Foundation, Inc., Ithaca, N. Y. Method and apparatus for deaerating liquid foods. 2,428,044; Sept. 30.
- Sharp, Paul F., D. B. Hand, and E. S. Guthrie, assignors to Cornell Research Foundation, Inc., Ithaca, N. Y. Liquid treating apparatus. 2,428,045; Sept. 30.
- Sharp, Renwick J., Guatemala, Guatemala. Cover means for mechanism of automotive vehicles. 2,413,792; Jan. 7.
- Sharp, Renwick J., Guatemala, Guatemala. Vertical axis type mixing and churning mill. 2,413,793; Jan. 7.
- Sharp, Renwick J., Guatemala, Guatemala. Ice-cream cabinet. 2,423,207; July 1.
- Sharp, Renwick J., Guatemala, Guatemala. Ice making machine. 2,429,699; Oct. 28.
- Sharp, William, Cleveland, Ohio. Equipment for treating sewage. 2,415,048; Jan. 28.
- Sharpe, Hermon V., assignor of one-half to T. A. Sharpe, Houston, Tex. Tail gate control device. 2,431,588; Nov. 25.
- Sharpe, Thomas A., assignee: *See—*  
Sharpe, Hermon V.
- Sharpouse, John H., P. R. Hawtin, J. Downing, and W. H. Groombridge, Spondon, near Derby, assignors to British Calanese Limited, London, England. Improving the clarity of cellulose ethers. 2,414,563; Jan. 21.
- Sharpouse, John H., Prestwich, and J. Downing, Spondon, near Derby, assignors to British Celanese Limited, London, England. Production of cellulose ethers. 2,425,351; Aug. 12.
- Sharples, Arthur E., Astoria, N. Y. Therapeutic dressing. 2,430,740; Nov. 11.
- Sharples Chemicals Inc., assignee: *See—*  
Gillette, Leslie A.
- Olin, John F., and Deger.
- Wolf, George M., and Deger.
- Sharples Corporation, The, assignee: *See—*  
Serrell, John J., and Jones.
- Sharples, William C.: *See—*  
Harris, Charles R., and Sharples.
- Sharrock, J. C., Birmingham, Ala., and J. A. Sheeley, Stamford, Conn. Dental press. 2,424,906; July 29.
- Shartle, Ralph W., Clayton, assignor to Wagner Electric Corporation, St. Louis, Mo. Greasing device for anti-friction bearings. 2,427,233; Sept. 9.
- Shartle, Robert A., Rockford, Ill., assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,419,374; Apr. 22.
- Shartle, Robert A., Rockford, Ill., assignor to Vickers Incorporated, Detroit, Mich. Power transmission having a plural pump fluid pressure source and a flow-regulating diverting valve. 2,419,375; Apr. 22.
- Shasta Pump Company, assignee: *See—*  
Piccardo, Jack E.
- Shatkin, Aaron, Matawan, N. J. Earring. 2,427,478; Sept. 16.
- Shatkin, Aaron, Matawan, N. J. Earring and the like. 2,427,479; Sept. 16.
- Shattuck, Felicia C., Everett, Mass. Bibette. 2,425,961; Aug. 19.
- Shaver, Forrest W.: *See—*  
Folt, Vernon L., and Shaver.
- Gresham, Thomas L., and Shaver.
- Shaver, Paul P.: *See—*  
Stalnaker, Frederick M., and Shaver.
- Shaw, Burton E., Bristol, assignor to Penn Electric Switch Co., Goshen, Ind. High side cutout unit for switches. 2,417,219; Mar. 11.
- Shaw, Burton E., Bristol, assignor to Penn Electric Switch Co., Goshen, Ind. Thermostatic control for refrigeration systems. 2,419,376; Apr. 22.
- Shaw, Burton E., Bristol, assignor to Penn Electric Switch Co., Goshen, Ind. Thermostatic control for refrigeration systems. 2,419,377; Apr. 22.
- Shaw, Clyde M., and H. S. Putney, Topeka, assignors to W. A. Morse, Mission, Kans. Bottle carrier. 2,425,401; Aug. 12.
- Shaw, Dugald A., assignor to Lyon Metal Products, Incorporated, Aurora, Ill. Memorandum holder. 2,428,383; Oct. 7.
- Shaw, Evelyn M., Wichita, Kans. Compartmented insulated lunch box. 2,415,767; Feb. 11.
- Shaw, Everett J.: *See—*  
Barkstrom, Elmer E., and Shaw.
- Shaw, Fred B., Jr.: *See—*  
Ryan, Joseph D., and Shaw.
- Shaw, Harold F., assignor to F. A. Whitney Carriage Company, Leominster, Mass. Steering baby carriage. 2,424,714; July 29.
- Shaw, Harold N., Erie, Pa. Electric oven. 2,415,768; Feb. 11.
- Shaw, Harold N., Erie, Pa. Induction heated device. 2,415,853; Feb. 18.
- Shaw, Harry, Rochdale, England. Bearing and bearing surface. 2,431,430; Nov. 25.
- Shaw, Joe C., Racine, Wis., assignor to Young Radiator Company. Surge valve mechanism. 2,417,708; Mar. 18.
- Shaw, John, Chicago, Ill. Combination seal, drip tube, and dispensing unit. 2,433,242; Dec. 23.
- Shaw, John C., Bloomfield, assignor to Niles-Bement-Pond Company, West Hartford, Conn. Tracer for electrically operated and controlled duplicating machines. 2,428,472; Oct. 7.
- Shaw, Joseph C.: *See—*  
Dykeman, Rueben G., Shaw, and Hoffman.
- Shaw, Milton C., Hampton, Va., assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Mechanical activation. 2,416,717; Mar. 4.
- Shaw, Paul N., Shaker Heights, Ohio. Safety device for presses. 2,427,928; Sept. 23.
- Shaw, Ralph M., Jr., Edgewater Park, N. J., assignor to Pedrick Tool & Machine Company, Philadelphia, Pa. Boring mill and mechanism to oppose sag in the tool bars thereof. 2,432,943; Dec. 16.
- Shaw, Thomas P. G.: *See—*  
Morrison, George O., and Shaw.
- Shaw, Vincent L., Evanston, Ill. Sprinkler control device. 2,414,127; Jan. 14.
- Shawcross, George E., Fenton, Stoke-on-Trent, assignor of one-half to Saxon Engineering Company, Limited, Staffordshire; Lloyds Bank Limited, London, England, executor of said George E. Shawcross, deceased. Reciprocating mechanism for inclined mineral separating pneumatic tables. 2,427,423; Sept. 16.
- Shawcross, Roy, Salina, assignor to Aluminum Company of America, Pittsburgh, Pa. Removing foreign matter from magnesium surfaces. 2,418,955; Apr. 15.
- Shawhan, Sam F., assignor to Carrier Corporation, Syracuse, N. Y. Defrosting method and apparatus. 2,421,293; May 27.
- Shawinigan Chemicals Limited, assignee: *See—*  
Andersen, Arthur H., Eaton, and Holm.
- Campbell, William M.
- Kaufmann, Charles, and Andersen.
- Morrison, George O., and Shaw.
- Shea, Thomas M., U. S. Navy, San Francisco, Calif. Work-piece treating unit. 2,432,131; Dec. 9.
- Sheahan, Daniel E., assignor to Wingfoot Corporation, Akron, Ohio. Balancing pneumatic tires. 2,429,032; Oct. 14.
- Sheaks, Carl T., Turtle Creek, and J. H. Sansonetti, Jeannette, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Fabricated brush holder. 2,419,169; Apr. 15.
- Shearer, Alexander P., L. B. Witten, and T. Cubin, Sunbury-on-Thames, England. Breaking of emulsions. 2,429,965; Oct. 28.
- Shearon, Kenneth E., Wilmette, Ill. Wrist strap. 2,433,712; Dec. 30.
- Sheeley, John A.: *See—*  
Sharrock, James C., and Sheeley.
- Sheepbridge Stokes Centrifugal Castings Company, assignee: *See—*  
Halbert, Joseph, and Rawson.



Sheepshanks, Richard H.: *See*—

\* Ballamy, Leslie M., and Sheepshanks.  
Sheer, Solomon, Brooklyn, and V. Giasburg, Jackson Heights, assignors to Tex Machine Corporation, New York, N. Y. Garment cutting machine. 2,414,673; Jan. 21.

Sheesley, Jay R., Chicago, Ill. Railway car truck. 2,424,001; July 15.

Sheets, Clarke L., Detroit, Mich. Speed signalling device. 2,430,305; Nov. 4.

Sheets, Herman E.: *See*—

Hebard, George P., and Sheets.  
Sheets, Herman E., assignor to St. Paul Foundry Company, St. Paul, Minn. Valve. 2,417,994; Mar. 25.  
Sheffer, Irving H., Traverse City, Mich. Feed collet. 2,429,700; Oct. 28.  
Sheffield Corporation, The, assignee: *See*—  
Aller, Willis F.  
Mahlmeister, Raymond A.  
Subber, Leonard S.  
Wiseman, Arthur W., and Walker.

Sheffield, Wilbur L., Canton, assignor, by mesne assignments, to Raytheon Manufacturing Company, Newton, Mass. Driving and counting system. 2,415,854; Feb. 18.

Shelfsky, Samuel, assignee, et al.: *See*—  
Lende, Henry.

Sheffele, Arthur L., assignor to W. J. Cameron, Chicago, Ill. Control device for apparatus for recording circulatory conditions. 2,425,899; Aug. 19.

Shelby Cycle Company, The, assignee: *See*—  
Smith, Leon A.

Sheldon, Allan E., Yakima, Wash. Float operated circuit closer. 2,432,045; Dec. 2.

Sheldon, Allan E., Yakima, Wash. Railroad washout signal controller. 2,432,451; Dec. 9.

Sheldon, William M., Elizabeth, assignor to Pulverizing Machinery Company, Summit, N. J. Combined chipping machine and impact mill. 2,418,990; Apr. 15.

Shell Development Company, assignee: *See*—  
Adelson, David E., and Gray.

Anderson, Alvin P., and Stross.

Appleby, Walter G., Lovell, and Love.

Ballard, Seaver A.

Ballard, Seaver A., and Haury.

Bent, Franklin A., and Peterson.

Bergsteinsson, Ingolfur, and Finch.

Boucher, Herman G., and Leeds.

Brackenbury, John M.

Burgin, James.

Cheney, Harry A., and McAllister.

Cole, Robert M.

Collins, Donald B.

Crake, Wilfred S.

Crawford, Chester C., Ross, and McAllister.

De Simo, Martin, and McMillan.

Diamond, Hyman.

Dorman, Stephen C.

Eggertsen, Frank T., and Voge.

Engs, William, Wik, and Roberts.

Evans, Theodore W., Morris, and Shokal.

Farley, Francis F.

Fay, Charles H.

Fetterly, Lloyd C.

Finch, Harry D., and Ballard.

Finch, Harry D., and Bergsteinsson.

Fuller, Donald L., and Greensfelder.

Gage, William P.

Geyer, Bradford P., and Ballard.

Good, George M., Voge, and Greensfelder.

Greensfelder, Bernard S.

Greensfelder, Bernard, Voge, and Good.

Gregg, George W.

Hall, Walter E.

Harnden, Charles W.

Hatch, Lewis F., Adelson, and Blackburn.

Hatton, John A., Cleveland, and Peery.

Haury, Vernon E.

Haury, Vernon E., and Ballard.

Hearne, George W., and La France.

Horsley, Franz A.

Jasaitis, Zene V., and Davidson.

Johnson, Ava J., Souders, and Marsland.

Jones, Paul R.

Leavitt, Floyd H.

Lehr, Paul E.

Loeb, Henry D.

Marple, Kenneth E., and Shokal.

Marple, Kenneth E., Shokal, and Evans.

Maxwell, Kenneth E.

McAllister, Sumner H., and Crawford.

McAllister, Sumner H., Crawford, and Ross.

McCombie, Horace R., and Kittle.

Medlin, William V.

Merten, Eugen.

Moore, Joe H.

Morris, Rupert C., and Finch.

Morris, Rupert C., and Shokal.

Morris, Rupert C., and Snider.

Morris, Rupert C., and Van Winkle.

Muzzey, David S., Jr., and Miller.

Nixon, Alan C., and Davis.

Ozinga, Peter K.

Shell Development Company, assignee: *See*—Continued.

Peery, Norman E.

Peters, Leslie M.

Peterson, Walter H., and Detling.

Plank, Norris.

Ross, William E., and Carlson.

Ross, William E., and Pozzaglia.

Rust, Frederick F., and Dickey.

Rust, Frederick F., Raley, and Vaughan.

Rust, Frederick F., and Vaughan.

Samaniego, José A., and Souders.

Schelling, William T., and Anderson.

Shokal, Edward C., and Evans.

Shokal, Edward C., and Morris.

Smith, Albert E., and Beeck.

Snider, Alva V., and Van Winkle.

Topkin, Charles J.

Trimble, Robert A.

Van der Valk, Johannes H. A. P. L.

Van Peski, Adrianus J.

Vaughan, William E., and Kennedy.

Vaughan, William E., and Rust.

Wachter, Aaron.

Wachter, Aaron, and Stillman.

White, Ellis R.

Whitehill, Lynwood N., and Shokal.

Williams, Paul H., and Ballard.

Yale, Harry L., and Hearne.

Shelley, Kew E., executor: *See*—

Baird, John L.

Shelley, Lewis A., assignor of one-half to F. M. Folkers, Portland, Ore. Telescope sight mount. 2,425,130; Aug. 5.

Shelling, Walter O., assignor to Trojan Powder Company, Allentown, Pa. Monitoring system. 2,429,966; Oct. 28.

Shellmar Products Corporation, assignee: *See*—

De Swart, Jan.

Gilfillan, Paul M.

Pardee, Edward A.

Southwick, Charles A., Jr.

Shelly, Franklin E., assignor to Tube Turns, Louisville, Ky. Plug valve. 2,421,969; June 10.

Shelmerdine, Henry N., and A. Cooper, assignors to Expanded Rubber Company Limited, Croydon, England.

Sheathing of buoyant cables. 2,431,085; Nov. 18.

Shelstad, Adolph, St. Paul, Minn. Hitch pin holder. 2,423,799; July 8.

Shelton, A. B., Corporation, assignee: *See*—

Shelton, Andrew B.

Shelton, Andrew B., Columbus, Ga., assignor to A. B. Shelton Corporation. Brake for loom letoff mechanism. 2,417,379; Mar. 11.

Shelton, Robert S., Mariemont, and M. G. Van Campen, Jr., Silverton, assignors to The Wm. S. Merrell Company, Reading, Ohio. Tris-p-hydroxyphenyl ethylenes and manufacture. 2,430,891; Nov. 18.

Shenk, Eugene R.: *See*—

Miller, William A., and Shenk.

Shenk, Eugene R., Brooklyn, N. Y., assignor to Radio Corporation of America. Multivibrator circuit. 2,417,522; Mar. 18.

Shenk, Kenneth M., Sheridan, Ore. Jointer. 2,431,431; Nov. 25.

Shep, Leroy R., Los Angeles, Calif. Pontoon. 2,420,384; May 13.

Shepard, Francis H., Jr.: *See*—

MacLaren, Fred B., Jr., and Shepard.

Shepard, Francis H., Jr., Madison, N. J., assignor, by mesne assignments, to Remco Electronic, Inc., New York, N. Y. System for transmitting two simultaneous intelligences. 2,419,292; Apr. 22.

Shepard, Frank B., Texon, Tex. Filtering apparatus. 2,418,604; Apr. 8.

Shepard, Frederick J., Jr., West Newton, and F. Garbarino, Waltham, assignors to Lewis-Shepard Company, Watertown, Mass. Floor truck. 2,414,277; Jan. 14.

Shepard, Hugh M., Baltimore, Md., and J. H. Bryan, Roselle, N. J., assignors to American Smelting and Refining Company, New York, N. Y. Refining copper. 2,421,582; June 3.

Shepard, Noah, San Juan, P. R. Automatic self-flushing commode. 2,428,685; Oct. 7.

Shepard, Ralph H.: *See*—

Folke, Bengt E., and Shepard.

Shepard, Ralph H., assignor to Nathan Manufacturing Company, New York, N. Y. Hydraulic pump. 2,420,984; May 20.

Shepard, Stanley C.: *See*—

McWhirter, Eric M. S., Wolfson, Dunn, and Shepard.

Wolfson, Henry, and Shepard.

Shepardson, Robert M., Madison, N. J., assignor to Standard Oil Development Company. Treating hydrocarbon fluids. 2,421,615; June 3.

Shepardson, Robert M., Madison, N. J., assignor to Standard Oil Development Company. Production of an aromatic gasoline. 2,431,515; Nov. 25.

Shepherdson, John W., assignor to Morgan Construction Company, Worcester, Mass. Shearing apparatus. 2,414,772; Jan. 21.

Shepherd, Gordon: *See*—

Drieschman, Donald F., Shepherd, Rabinowitz, Newhall, and Sorg.



- Shepherd, James E., Hempstead, N. Y., assignor to Sperry Gyroscopic Company, Inc. Phase-sensitive detector. 2,425,009; Aug. 5.
- Shepherd, James E., Hempstead, N. Y., assignor to Sperry Gyroscopic Company, Inc. Indicating method and apparatus for detection systems. 2,432,101; Dec. 9.
- Shepherd, Judson O., Atlanta, Ga. Apparatus for and process of taking and showing sound motion pictures. 2,420,798; May 20.
- Shepherd, Nathaniel T., Salt Lake City, Utah. Vertically adjustable seat. 2,427,234; Sept. 9.
- Shepherd, Ridgley G., Jr., Needham Heights, and C. D. West, assignors to Polaroid Corporation, Cambridge, Mass. Filter transparent to infrared radiation and opaque to visible light. 2,418,605; Apr. 8.
- Sheppard, Harry N., Maplewood, N. J., assignor to Scott & Williams, Incorporated, Laconia, N. H. Circular knit hosiery and making same. 2,431,204; Nov. 18.
- Sheppard, Nelson H., Ansonia, assignor to Gudel & Sheppard Co., New Haven, Conn. Cutting tool. 2,416,228; Feb. 18.
- Sheppard, Raymond, Niskayuna, N. Y., assignor to General Electric Company. Prime mover power plant. 2,429,077; Oct. 14.
- Sheppard, William L., Royal Oak, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Control and drive mechanism for helicopter rotors. 2,428,128; Sept. 30.
- Shera, John W., assignor of one-half to McDowell Manufacturing Company, Pittsburgh, Pa. Work positioning gage for punch presses or the like. 2,433,533; Dec. 30.
- Sherbondy, Anna L., executrix: *See*—  
Sherbondy, William E.
- Sherbondy, William E., deceased, Shaker Heights; A. L. Sherbondy, executrix, assignor to Vital Products Manufacturing Company, Cleveland, Ohio. Dispensing apparatus for plastic material. 2,420,203; May 6.
- Sherer, Archie A., Dayton, Ohio. Garment protector. 2,418,197; Apr. 1.
- Sherertz, Joe R.: *See*—  
Greene, Ernest W., Sherertz, and Cole.
- Sheridan, Hiram W., Oak Park, Ill. Hydraulic remote control system. 2,422,139; June 10.
- Sheridan Iron Works, The, assignee, et al.: *See*—  
Hawkes, Thomas B.
- Sheridan, T. W. & C. B., Company, assignee: *See*—  
Hawkes, Thomas B.
- Sheridan, Terence, Hamiota, Manitoba, Canada. Combination plant stake and lock. 2,425,049; Aug. 5.
- Sherka Chemical Co., Inc., assignee: *See*—  
Korpiun, Joachim.
- Sherlock, John E., Sunbury-on-Thames, England. Giving warning of the formation of ice on aircraft. 2,421,166; May 27.
- Sherman, Arthur L.: *See*—  
Schellens, Christopher A., and Sherman.
- Sherman, Bernard H., Boston, assignor of one-third to E. M. Warwick, Walpole, and one-sixth to H. E. Cole, Taunton, Mass. Foot corrective appliance. 2,428,342; Sept. 30.
- Sherman, Bernard H., Boston, assignor of one-half to H. E. Cole, Taunton, Mass. Toe spreader held in position by a firm flexible connector joined to a foot band. 2,428,343; Sept. 30.
- Sherman, Donald W., Shorewood, assignor to A. O. Smith Corporation, Milwaukee, Wis. Automobile suspension. 2,417,019; Mar. 4.
- Sherman, Donald W., Shorewood, assignor to A. O. Smith Corporation, Milwaukee, Wis. Method of forging and lubricant therefor. 2,430,083; Nov. 4.
- Sherman, Donald W., Shorewood, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis. Weld fabricated trunnion for landing gear oleos. 2,433,630; Dec. 30.
- Sherman, Donald W., Shorewood, assignor to A. O. Smith Corporation, Milwaukee, Wis. Weld fabricated yoke. 2,433,631; Dec. 30.
- Sherman, Forrest P., U. S. Navy. Telescopic dive bomb-sight. 2,424,257; July 22.
- Sherman, Jacob S., Chicago, Ill. Lighter. 2,423,567; July 8.
- Sherman, Thomas L., assignor, by mesne assignments, to The Steel Products Engineering Company, Springfield, Ohio. Crankless motion transmission mechanism. 2,430,788; Nov. 11.
- Sherwin-Williams Company, The, assignee: *See*—  
Arvin, James A., and Hunn.  
Mayer, Perry E.  
Nessler, Floyd G., and Penoyer.  
Ruthruff, Robert F.  
Ruthruff, Robert F., Grummit, and Dickinson.  
Walton, William T., Coffey, and Knapp.
- Sherwood, Albert L., assignor to Sutherland Paper Company, Kalamazoo, Mich. Packing device. 2,431,775; Dec. 2.
- Sherwood, Lester L., Los Angeles, Calif. Billfold. 2,416,026; Feb. 18.
- Sherwood, Lester L., Los Angeles, Calif. Billfold with detachable front wall pockets. 2,432,254; Dec. 9.
- Sherwood, Lewis G.: *See*—  
Wohler, Charles E., and Sherwood.
- Sherwood, Lewis G., and C. E. Wohler, assignors to Niagara Searchlight Company, Inc., Niagara Falls, N. Y. Flashlight. 2,420,152; May 6.
- Shetler, Gordon S., Skokie, Ill. Game apparatus. 2,432,824; Dec. 16.
- Shick, Harry F., Jr., Brookville, Pa. Flexible band jar wrench. 2,430,144; Nov. 4.
- Shields, Albert F., Forest Hills, assignor to S. & S. Corrugated Paper Machinery Co., Inc., Brooklyn, N. Y. Partition assembling machine elements. 2,414,336; Jan. 14.
- Shields, Albert F., Forest Hills, assignor to The S. & S. Corrugated Paper Machinery Co., Inc., Brooklyn, N. Y. Take-off table. 2,414,337; Jan. 14.
- Shields, Charles B., Penn Township, Allegheny County, assignor to The Union Switch and Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. Re. 22,841; Feb. 11.
- Shields, James E., and E. V. Reilly, Niagara Falls, assignors to Alox Corporation, New York, N. Y. Obtaining polar-type corrosion-inhibiting agents soluble in petroleum lubricating oils. 2,421,040; May 27.
- Shields, Raleigh T., Newport News, Va. Welder's helmet. 2,433,164; Dec. 23.
- Shields, Wendell H., Grand Rapids, Mich. Cloth drying machine. 2,416,027; Feb. 18.
- Shill, Sidney C., Los Angeles, Calif. Musical instrument. 2,419,734; Apr. 29.
- Shillington, Harry R., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Oscillograph system for testing electrical contact making devices. 2,432,944; Dec. 16.
- Shimek, Edwin J., Dallas, Tex., and G. M. Groenendyke, Norman, Okla., assignors, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Gain-controlling system for seismographs. 2,420,571; May 13.
- Shimer, Joseph N., Los Angeles, Calif. Dump truck. 2,424,670; July 29.
- Shimley, George C., assignor of twelve and one-half per cent to A. M. Gerdes, Galveston, and twelve and one-half per cent to R. R. Hendrickson, Galveston County, Tex. Gum massager. 2,418,485; Apr. 8.
- Shimley, George H., Jr., Baytown, and G. W. Wilson, Jr., Goose Creek, Tex., assignors to Standard Oil Development Company. Treating a hydrocarbon feed stock with a solution comprising aryl sulfonic acid. 2,428,686; Oct. 7.
- Shipman, Barry, Pasadena, and R. H. Guhl, Van Nuys, Calif. Visually comparing sound effects during the production thereof. 2,416,353; Feb. 25.
- Shipman, Frederic, New York, N. Y. Window mirror display. 2,416,666; Mar. 4.
- Shipman, Frederic, New York, N. Y. Theatrical and advertising display. 2,418,198; Apr. 1.
- Shipman, Gerald T., assignee: *See*—  
Kneareem, Harry T.
- Shipp, Joseph H., Wilmington, Del., and C. J. Pedersen, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Lubricant for processing metals. 2,420,328; May 13.
- Shipp, Joseph H., Wilmington, Del., and O. C. Bacon, and C. J. Pedersen, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Lubricant for processing metals. 2,420,329; May 13.
- Shiroyan, Haig, Flushing, N. Y. Leak indicator for gas-filled conductor cable. 2,427,627; Sept. 16.
- Shively, John J., New York, N. Y. Selective relay. 2,416,070; Feb. 18.
- Shmidl, Albert J.: *See*—  
Cato, Artie Q., Wash, and Shmidl.
- Shmidl, Albert J., Greens Bayou Park, Tex., assignor to Standard Oil Development Company. Asphalt composition. 2,430,998; Nov. 18.
- Shmukler, Albert, and H. Bronstein, Philadelphia, Pa. Articulator. 2,423,522; July 8.
- Shmurak, Benjamin, Forest Hills, N. Y., and G. D. Hulst, Jr., Upper Montclair, N. J., assignors to Radio Corporation of America. Pulse direction finder system. 2,423,523; July 8.
- Shockey, Newton E., Detroit, assignor to Van Dresser Specialty Corporation, Van Dyke, Mich. Spring cover. 2,423,159; July 1.
- Shockley, William, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Pulse generator. 2,416,718; Mar. 4.
- Shoeld, Mark, assignor to The Davison Chemical Corporation, Baltimore, Md. Making granular superphosphate. 2,414,700; Jan. 21.
- Shoeld, Mark, assignor to The Davison Chemical Corporation, Baltimore, Md. Making granular superphosphate. 2,414,701; Jan. 21.
- Shoeld, Mark, assignor to The Davison Chemical Corporation, Baltimore, Md. Making silica containing gels. 2,428,895; Oct. 14.
- Shoeld, Mark, assignor to The Davison Chemical Corporation, Baltimore, Md. Treatment of hydrogels. 2,430,145; Nov. 4.
- Shoemaker, Bernard H.: *See*—  
Lien, Arthur P., and Shoemaker.  
Lien, Arthur P., Evering, and Shoemaker.  
Proell, Wayne A., and Shoemaker.
- Shoemaker, Bernard H., Hammond, Ind., and B. L. Evering, assignors to Standard Oil Company, Chicago, Ill. Alkylation. 2,419,692; Apr. 29.
- Shoemaker, Louis H., Santa Monica, Calif. Suspension bridge. 2,429,332; Oct. 21.
- Shoemaker, Malcolm G., Abington, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Ice tray. 2,415,446; Feb. 11.



- Shoemaker, Malcolm G., Abington, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Control apparatus for reversible motors. 2,416,229; Feb. 18.
- Shoemaker, Malcolm G., Abington, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Controlled humidity refrigerator. 2,416,354; Feb. 25.
- Shoemaker, Malcolm G., Abington, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Refrigerating apparatus in which the pressure in the crankcase of the compressor is controlled. 2,418,853; Apr. 15.
- Shoemaker, Malcolm G., Abington, assignor to Philco Corporation, Philadelphia, Pa. Control apparatus for reversible motors. 2,424,859; July 29.
- Shokal, Edward C.: *See—*  
Evans, Theodore W., Morris, and Shokal.  
Marple, Kenneth E., and Shokal.  
Marple, Kenneth E., Shokal, and Evans.  
Morris, Rupert C., and Shokal.  
Whitehill, Lynwood N., and Shokal.
- Shokal, Edward C., Oakland, and R. C. Morris, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Polymers of unsaturated derivatives of 3-sulfanilol. 2,418,991; Apr. 15.
- Shokal, Edward C., and T. W. Evans, Oakland, assignors to Shell Development Company, San Francisco, Calif. Production of allyl type compounds. 2,428,590; Oct. 7.
- Sholder, Morris, assignor to Form Fashion, Inc., Chicago, Ill. Blouse. Re. 2,290,6; Aug. 12.
- Shomer, John E., assignor to The Brush Development Company, Cleveland, Ohio. Piezoelectric device. 2,414,489; Jan. 21.
- Shonle, Horace A., and J. W. Corse, assignors to Eli Lilly and Company, Indianapolis, Ind. 9-amino-alkyl-amino-substituted acridine derivatives. 2,424,061; July 15.
- Shonle, Horace A., and J. W. Corse, assignors to Eli Lilly and Company, Indianapolis, Ind. 2-methoxy-6-chloro-9-[4'-(diisopropylamino)butylamino]-acridine. 2,424,062; July 15.
- Shonle, Horace A., and J. W. Corse, assignors to Eli Lilly and Company, Indianapolis, Ind. 2-methoxy-6-chloro-9-[2'-hydroxy-3-(ethyl-n-butylamino)-propylamino]-acridine. 2,424,063; July 15.
- Shonnard, Clara E., executrix: *See—*  
Shonnard, Harold W.
- Shonnard, Harold W., deceased, Montclair, N. J., C. E. Shonnard, executrix. Spotting device for freight transfer apparatus. 2,416,071; Feb. 18.
- Shonnard, John R., New York, N. Y., assignor to Times Facsimile Corporation. Phasing and drive-coupling arrangement for facsimile machines. 2,421,438; June 3.
- Shonnard, John R., New York, N. Y., assignor to Times Facsimile Corporation. Photoelectric system and apparatus. 2,430,146; Nov. 4.
- Shook, H. G., Company, The, assignee: *See—*  
Frankhouser, Albert G.
- Shook, Owen L., Keysville, Va. Lumber handling machine. 2,430,689; Nov. 11.
- Shoresman, Allen M., assignor to Universal Oil Products Company, Chicago, Ill. Liquid distributing apparatus. 2,428,922; Oct. 14.
- Short, Frank, Canton Center, Conn. Hand grenade. 2,421,762; June 10.
- Short, Frank, Canton Center, Conn. Fuse for land mines. 2,428,817; Oct. 14.
- Short, Frank, Canton Center, Conn., and J. Pearlstein, Arlington, Va. Fuse for land mines. 2,427,371; Sept. 16.
- Short, George A., assignor to Hotstream Heater Company, Cleveland, Ohio. Draft control mechanism. 2,417,571; Mar. 18.
- Short, Leo C., and E. A. Iwen, assignors to The Austin Company, Seattle, Wash. Sewage disposal system. 2,419,693; Apr. 29.
- Short, Thomas B., assignee: *See—*  
Robeson, Edna G.
- Short, Thomas T., Fort Wayne, Ind., assignor to General Electric Company. Power supply and voltage limiter. 2,417,272; Mar. 11.
- Short, Thomas T., Fort Wayne, Ind., assignor to General Electric Company. Phase converter. 2,423,348; July 1.
- Short, Thomas T., Fort Wayne, Ind., assignor to General Electric Company. Electromagnetic induction apparatus. 2,432,343; Dec. 9.
- Short, Wallace F.: *See—*  
Coulthard, Charles E., Short, and Michaelis.  
Oxley, Peter, and Short.
- Short, Wallace F., and P. Oxley, assignors to Boots Pure Drug Company, Limited, Nottingham, England. Production of amidines. 2,433,489; Dec. 30.
- Shorter, Albert E., Sheffield, England, assignor to The Linde Air Products Company. Heat treatment of metal articles. 2,429,776; Oct. 29.
- Shortland, Arthur, assignor to Mellor Bromley and Co., Limited, Leicester, England. Knitting machine. 2,417,135; Mar. 11.
- Shotey, William, Dearborn, Mich. Apparatus for dressing involute surfaces on grinding wheels. 2,424,507; July 22.
- Shotton, John C., Lakewood, Ohio. Vaginal irrigator. 2,421,294; May 27.
- Showalter, Jere C., Goose Creek, Tex., assignor to Standard Oil Development Company. Production of divalent metal sulfonates. 2,414,773; Jan. 21.
- Shrack, Philip O., Atchison, Kans. Timing device. 2,420,019; May 6.
- Shreve, C. Dudley, assignee: *See—*  
Barfield, Albert S.
- Shreve, Clifford B., assignor to Tyler Fixture Corporation, Niles, Mich. Cabinet having means for supporting a horizontal closure in a vertical position. 2,424,715; July 29.
- Shriver, Leland C., South Charleston, and G. H. Fremon, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Vinyl chloride copolymer and making it. 2,420,330; May 13.
- Shuey, Robert L., Ellensburg, Wash. Wheel truck. 2,420,843; May 20.
- Shuford, Edward L., assignor of fifty per cent to R. W. Hunting, Asheville, N. C. Syringe extension. 2,420,102; May 6.
- Shugart, Hardie L., assignor of one-half to E. Reynolds, Oklahoma City, Okla. Grain unloader. 2,417,020; Mar. 4.
- Shukys, Julius G.: *See—*  
Horney, Amos G., and Shukys.
- Shuler Co., assignee: *See—*  
Remesch, John, Eyring, and Moyer.
- Shuler, Sanford A., Jr., Schenectady, N. Y., assignor to General Electric Company. Apparatus for handling propellers. 2,431,589; Nov. 25.
- Shulkin, Anatol, New York, N. Y. Miniature pinball device. 2,423,409; July 1.
- Shull, Sherman K.: *See—*  
Buchwald, Charles E., and Shull.
- Shum, Aaron H., assignee: *See—*  
Foster, Alden E.
- Shumaker, John F., assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio. Lock for brake slack adjusters. 2,427,310; Sept. 9.
- Shure Brothers, Incorporated, assignee: *See—*  
Bauer, Benjamin B.
- Shurick, Edward P., Sr., Kansas City, Mo. Children's behavior indicator. 2,414,614; Jan. 21.
- Shuron Optical Company, Inc., assignee: *See—*  
Root, Marshall J., Jr.
- Shurts, Wilbur F.: *See—*  
Black, James B., and Shurts.
- Shute, John S., assignee: *See—*  
Teeson, Robert F.
- Shuttleworth, Howard L., Amsterdam, G. J. Underwood, and L. R. Jones, Broadalbin, N. Y., assignors to Mohawk Carpet Mills, Inc. Stencilling pile fabrics by suction. 2,419,694; Apr. 29.
- Shuttleworth, Howard L., Amsterdam, G. J. Underwood, and L. R. Jones, Broadalbin, N. Y., assignors to Mohawk Carpet Mills, Inc. Machine for stencilling fabric with suction. 2,419,695; Apr. 29.
- Sibley, Eugene, assignor to F. C. Sibley, Detroit, Mich. Rotary gear pump. 2,428,181; Sept. 30.
- Sibley, Frank C., assignee: *See—*  
Sibley, Eugene.
- Sicard, Arthur, assignee: *See—*  
Boissonnault, Ronaldo.
- Sickles, F. W., Company, The, assignee: *See—*  
Benner, Howard J., and Hadley.  
Smith, Wolcott M.
- Side, Frederick W., assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring and controlling apparatus. 2,418,052; Mar. 25.
- Side, Frederick W., assignor to The Brown Instrument Company, Philadelphia, Pa. Vibrator. 2,423,524; July 8.
- Sidnell, Albert E., Akron, Ohio. Rubber article and process and form for making same. 2,428,127; Sept. 30.
- Siebel, Gustav: *See—*  
Beck, Adolf, Siebel, and Vosskühler.
- Siebert, Donald W., assignor to O. W. Siebert Company, Gardner, Mass. Running gear for baby carriages and the like. 2,433,069; Dec. 23.
- Siebert, Le Roy C.: *See—*  
Zimmerlein, William G., and Siebert.
- Siebert, O. W., Company, assignee: *See—*  
Siebert, Donald W.
- Siegal, Edward L., assignee, et al.: *See—*  
Spira, Jacob J.
- Siegal, Samuel O., assignee, et al.: *See—*  
Spira, Jacob J.
- Siegel, Harry, New York, N. Y., assignor to All-Best Specialties Corp. Nursing bottle retainer. 2,428,725; Oct. 7.
- Siegel, Sam, Brighton, assignor to J. J. Adams, New York, N. Y. Pocket knife. 2,416,277; Feb. 18.
- Siegenthaler, Walter, Erlenbach, Zurich, assignor to Maschinenfabrik Scharer, Erlenbach, Switzerland. Crosswinder with automatic drive control means. 2,416,072; Feb. 18.
- Siegnol, Edouard: *See—*  
Quebatte, Arthur, and Siegnol.
- Siehrs, Arthur E., assignor, by mesne assignments, to Krim-Ko Corporation, Chicago, Ill. Drying of extract-solutions. 2,431,622; Nov. 25.
- Siehrs, Arthur E., assignor, by mesne assignments, to Krim-Ko Corporation, Chicago, Ill. Drying of extract solutions. 2,431,623; Nov. 25.



- Sieling, Edward H., Chicago, Ill. Handle. 2,424,125; July 15.
- Sieloff, Ona, Ferndale, Mich. Infant's garment. 2,425,402; Aug. 12.
- Siemen, Albert H., Appleton, Minn. Corn picker roller. 2,416,123; Feb. 18.
- Siemen, Albert H., Appleton, Minn. Corn picker roller. 2,416,124; Feb. 18.
- Siemens Brothers & Co. Limited, assignee: *See*—  
Christian, David A.  
Long, Douglas P.  
Mole, John H.
- Sieron, August T., Chicago, Ill., assignor to General Chemical Company, New York, N. Y. Apparatus for vaporizing sulfur. 2,424,336; July 22.
- Siers, John A. H., Jersey City, N. J. Telescopic bathtub. 2,420,448; May 13.
- Sieurin, Sven, Stockholm, assignor to Aktiebolaget Atvtda-bergs Industrier, Atvtda-berg, Sweden. Hand-position indicator for typewriters. 2,427,694; Sept. 23.
- Sievenpiper, Frederic, Alden, and L. H. Flett, Hamburg, assignors to Allied Chemical & Dye Corporation, New York, N. Y. Bromination of 2,6-nitro chlor toluene. 2,429,493; Oct. 21.
- Sights, Robert C., Kennewick, Wash. Helicopter. 2,422,441; June 17.
- Sigma Instruments, Incorporated, assignee: *See*—  
Fisher, Charles P.
- Sigmund Corporation, assignee: *See*—  
Sigmund, Frank J., and Hlavin.
- Sigmund, Frank J., and W. S. Hlavin, Cleveland, Ohio, assignors, by mesne assignments, to Sigmund Corporation. Magnetizable core. 2,422,591; June 17.
- Sigmund, Frank J., and W. S. Hlavin, Cleveland, Ohio, assignors, by mesne assignments, to Sigmund Corporation. Preformed coating for magnetizable core. 2,422,592; June 17.
- Sigmund, Frank J. and W. S. Hlavin, Cleveland, Ohio, assignors, by mesne assignments, to Sigmund Corporation. Waterproof winding element. 2,428,816; Oct. 14.
- Signaigo, Frank K., and C. Sly, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Catalytic hydrogenation of cuminic acid compounds. 2,419,093; Apr. 15.
- Signal Engineering & Manufacturing Company: *See*—  
Cyser, Hugo F.  
Murray, Howard J.
- Signode Steel Strapping Company, assignee: *See*—  
Crosby, George A., and Ericsson.  
Ericsson, Arvid I.  
Moon, John M.
- Sigoda, Jerry: *See*—  
Sigoda, Victor J. and J.
- Sigoda, Victor J., Great Neck, assignor to Man-Sew Corp., New York, N. Y. Trimming mechanism. 2,420,331; May 13.
- Sigoda, Victor J., Great Neck, assignor to Man-Sew Corporation, New York, N. Y. Intermediate pinker for fabrics. 2,427,025; Sept. 9.
- Sigoda, Victor J., Great Neck, assignor to Man-Sew Corp., New York, N. Y. Ruffling attachment for sewing machines. 2,427,372; Sept. 16.
- Sigoda, Victor J., Great Neck, assignor to Man-Sew Corporation, New York, N. Y. Cutting device. 2,432,545; Dec. 16.
- Sigoda, Victor J., Great Neck, and J. Sigoda, assignors to Man-Sew Corporation, New York, N. Y. Belt turning attachment for sewing machines. 2,426,285; Aug. 26.
- Sikorra, Daniel J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Motor control system. 2,418,560; Apr. 8.
- Sikorsky, Igor L., Bridgeport, assignor to United Aircraft Corporation, East Hartford, Conn. Blade flapping angle control. 2,415,148; Feb. 4.
- Sikorsky, Igor L., Bridgeport, assignor to United Aircraft Corporation, East Hartford, Conn. Helicopter blade. 2,426,123; Aug. 19.
- Silbert, Eileen, assignee, et al.: *See*—  
Du Bois, Joseph E.
- Silex Company, The, assignee: *See*—  
Brown, Leslie M.  
Reichold, Ludwig.
- Silfen, Benjamin, Chicago, Ill. Shoe polishing apparatus. 2,430,958; Nov. 18.
- Silin, Joseph, assignee: *See*—  
Fiunedor, Ali J.
- Silk, Charles E., and G. C. Dintelmann, Alton, Ill., assignors to Olin Industries, Inc. Manufacture of propellant explosives. 2,417,090; Mar. 11.
- Sill, Leo L., Champaign, Ill. Water flow control for humidifiers. 2,425,962; Aug. 19.
- Silman, Harold, and W. Stein, assignors to Joseph Lucas Limited, Birmingham, England. Soldering fluxes. 2,429,033; Oct. 14.
- Silva, Manuel, Glendale, R. I. Dabbing brush mechanism. 2,423,800; July 8.
- Silva, Thomas, Honolulu, T. H. Lunch kit. 2,425,963; Aug. 19.
- Silven, Herbert A., assignor to Norton Company, Worcester, Mass. Grinding machine steadyrest. 2,419,170; Apr. 15.
- Silver Creek Precision Corporation, assignee: *See*—  
Schultz, George E., and Morrissey.
- Silver, Joseph R., Minneapolis, Minn., assignor of one-half to L. D. Freibert, Akron, Ohio. Locating and drilling fixture. 2,418,956; Apr. 15.
- Silver, Martin, New York, N. Y., assignor to Federal Telephone and Radio Corporation, East Newark, N. J. Transmission system. 2,419,601; Apr. 29.
- Silver Streak Manufacturing Company, assignee: *See*—  
Goedken, Victor B.
- Silver, Walter H., assignor to Deere & Company, Moline, Ill. Coulter mounting for listers. 2,414,175; Jan. 14.
- Silver, Walter H., assignor to Deere & Company, Moline, Ill. Clutch mechanism. 2,419,467; Apr. 22.
- Silver, Walter H., assignor to Deere & Company, Moline, Ill. Integrally mounted lister or bedder. 2,424,372; July 22.
- Silver, Walter H., assignor to Deere & Company, Moline, Ill. Reversible mountable gauge wheel unit. 2,426,529; Aug. 26.
- Silver, Walter H., assignor to Deere & Company, Moline, Ill. Power lift. 2,426,530; Aug. 26.
- Silverman, Daniel, and T. Gilmartin, assignors to Stand-olnd Oil and Gas Company, Tulsa, Okla. Drill bit pressure gauge. 2,422,806; June 24.
- Silverman, Hyman P., Denver, Colo. Selective dispenser for phonograph records. 2,427,628; Sept. 16.
- Silverman, Leslie, Westwood, and F. J. Viles, Jr., Boston, Mass. Portable welding fume exhauster. 2,414,564; Jan. 21.
- Silverman, Maurice G., Philadelphia, Pa., assignor to Wasco Flashing Co., Cambridge, Mass. Flashing construction. 2,430,830; Nov. 11.
- Silverman, William, Bronx, N. Y. Hair curler. 2,415,914; Feb. 18.
- Silvius, Reuben A., Glendale, Calif. Push button actuated powder dispensing device. 2,430,192; Nov. 4.
- Simanek, Edward J., assignor to American Steel Foundries, Chicago, Ill. Brake. 2,416,960; Mar. 4.
- Simcich, Alfred A., Long Island City, N. Y. Sprag brake for automobiles. 2,427,424; Sept. 16.
- Simmat, Eric, Wyomissing Hills, assignor to The Nolde and Horst Company, Reading, Pa. Knitted glove and making same. 2,418,957; Apr. 15.
- Simmon, Alfred, Jackson Heights, assignor to Simmon Brothers, Inc., Long Island City, N. Y. Camera view and range finder. 2,418,107; Mar. 25.
- Simmon, Alfred, Jackson Heights, assignor to Simmon Brothers, Inc., Long Island City, N. Y. Camera view and range finder. 2,418,108; Mar. 25.
- Simmon, Alfred, Jackson Heights, assignor to Simmon Brothers, Inc., Long Island City, N. Y. Computing device for photographic cameras. 2,418,370; Apr. 1.
- Simmon, Alfred, Jackson Heights, assignor to Simmon Brothers, Inc., Long Island City, N. Y. Photographic camera with movable film carrier. 2,418,992; Apr. 15.
- Simmon, Alfred, Jackson Heights, assignor to Simmon Brothers, Inc., Long Island City, N. Y. Computing device for photographic cameras. 2,422,316; June 17.
- Simmon, Alfred, Jackson Heights, and L. L. Weisglass, New York, assignors to Simmon Brothers, Inc., Long Island City, N. Y. Contrast control for photographic enlargers and printers. 2,414,338; Jan. 14.
- Simmon, Alfred, Jackson Heights, and L. L. Weisglass, New York, assignors to Simmon Brothers, Inc., Long Island City, N. Y. Photographic enlarger. 2,415,568; Feb. 11.
- Simmon, Alfred, Jackson Heights, and L. L. Weisglass, New York, assignors to Simmon Brothers, Inc., Long Island City, N. Y. Auto-focus enlarger. 2,430,252; Nov. 4.
- Simmon, Alfred, Jackson Heights, and L. L. Weisglass, New York, assignors to Simmon Brothers, Inc., Long Island City, N. Y. Photoelectric exposure and contrast controls for enlargers. 2,430,253; Nov. 4.
- Simmon Brothers, Inc., assignee: *See*—  
Simmon, Alfred.  
Simmon, Alfred, and Weisglass.  
Weisglass, Louis L.
- Simmonds Aerocessories Limited, assignee: *See*—  
Smith, Stanley J.
- Simmonds, Oliver E., assignee: *See*—  
Robertson, Edward R.
- Simmonds, Watson A., Chicago, Ill. Decalcomania assembly and making the same. 2,424,508; July 22.
- Simmonds, Wayne W., assignor to Ottawa Steel Products, Incorporated, Ottawa, Kans. Power-lift attachment for tractors. 2,417,021; Mar. 4.
- Simmons, Bowie G., Mobile, Ala. Power press brake with brake beam equalizer and work holding bender. 2,430,588; Nov. 11.
- Simmons Company, assignee: *See*—  
Woller, Edward E.
- Simmons, Edward G., Chiswick, London, England. Ignition apparatus for liquid fuel fired furnaces. 2,423,410; July 1.
- Simmons, Edward N., assignor to Simmons Manufacturing Co., Chicago, Ill. Sewing machine. 2,423,259; July 1.
- Simmons, Glen R., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Vitreous enamelled article. 2,421,719; June 3.
- Simmons, John W., Cleveland Heights, Ohio. Fastener. 2,415,540; Feb. 11.



- Simmons, John W., Cleveland Heights, Ohio. Fastener. 2,430,831; Nov. 11.
- Simmons, Leon E., Claremont, N. H., assignor to Joy Manufacturing Company. Kerf cutting means. 2,418,199; Apr. 1.
- Simmons, Leon E., Claremont, N. H., assignor to Joy Manufacturing Company. Cutter chain. 2,418,319; Apr. 1.
- Simmons, Leon E., Claremont, N. H., assignor to Joy Manufacturing Company. Forming cutter bits. 2,418,320; Apr. 1.
- Simmons, Leon E., Claremont, N. H., assignor to Joy Manufacturing Company. Pivoted link chain. 2,427,929; Sept. 23.
- Simmons, Lovel R., Jackson, Miss. Bottom dump vehicle. 2,428,533; Oct. 7.
- Simmons Manufacturing Co., assignee: *See—* Simmons, Edward N.
- Simms Motor Units Limited, assignee: *See—* Bryan, Walter.
- Simon, Forrest C., assignor to The French Oil Mill Machinery Co., Piqua, Ohio. Press cage. 2,421,763; June 10.
- Simon, Stephane, J. Kruithof, and M. den Hertog, Antwerp, Belgium, assignors to International Standard Electric Corporation, New York, N. Y. Telecommunication system. 2,424,585; July 29.
- Simonds Saw and Steel Company, assignee: *See—* Baumann, Harry P.
- Simonds Saw and Steel Co., assignee: *See—* Pavitt, Harry A.
- Simone, Rose M.: *See—* Taub, Abraham, and Simone.
- Simons, Harry D., Kearny, N. J. Photographic apparatus. 2,428,818; Oct. 14.
- Simons, Joseph H., State College, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Alkylation of an acyclic organic compound with an alkylation agent using hydrogen fluoride as catalyst. 2,423,470; July 8.
- Simons, Lowell W., Long Beach, Calif. Bending tool used in correcting camber and caster of steering knuckles. 2,427,536; Sept. 16.
- Simonson, Howard E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Relief valve tester. 2,419,293; Apr. 22.
- Simonson, Lawrence M., Los Angeles, Calif. Combination holder and sharpener for kitchen knives. 2,425,571; Aug. 12.
- Simplex Electric Company, assignee: *See—* Anderson, Ernst G. K.
- Coon, William B.
- Simplex Paper Corporation, assignee: *See—* Wood, Frederick P.
- Simplex Time Recorder Co., assignee: *See—* Hobby, Harold E.
- Simpson, Alfred M., Honolulu, Hawaii. Roughening rolls of sugar cane mills. 2,416,125; Feb. 18.
- Simpson, Benjamin C.: *See—* Sutton, William J., and Simpson.
- Simpson, Clarence E., Springfield, Mass., assignor to the Government of the United States of America, as represented by the Secretary of War. Head space adjusting and locking means for removable firearm barrels. 2,423,854; July 15.
- Simpson, Earl L., Mount Vernon, Ill. Burner with heated top plate. 2,428,998; Oct. 14.
- Simpson, Emory G., assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich. Seat adjuster. 2,417,523; Mar. 18.
- Simpson, Francis P., New Castle, Pa. Mechanically operated thumb for artificial hands. 2,433,301; Dec. 23.
- Simpson, Harold E.: *See—* Linnell, Harry K., and Simpson, and Dailey.
- Simpson, Herbert A., Ionia, Mich. Adjustable jar top remover. 2,431,833; Dec. 2.
- Simpson, Herbert S., assignee: *See—* Christensen, Alfred C.
- Christensen, Alfred C., and Dvorak.
- Granath, Axel G., and Gruenfeld.
- Simpson, James F., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Heat treatment for magnesium alloys. 2,413,928; Jan. 7.
- Simpson, James F., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Heat-treating bath for aluminum. 2,413,929; Jan. 7.
- Simpson, James H.: *See—* Miller, James B., and Simpson.
- Simpson, John M.: *See—* Carnagua, Harold E., and Simpson.
- Simpson, Ray, River Forest, Ill. Illuminated instrument. 2,413,848; Jan. 7.
- Simpson, Ray, River Forest, Ill. Indicating knob for switches and the like. 2,420,985; May 20.
- Simpson, Ray, River Forest, Ill. Instrument housing comprising inner and outer housing and a flexible closure therebetween. 2,426,712; Sept. 2.
- Simpson, Ray, River Forest, Ill. Illuminated instrument. 2,426,713; Sept. 2.
- Simpson, Ray, River Forest, Ill. Counterbalance for instrument movement and pointer. 2,433,165; Dec. 23.
- Simpson, Stanley H.: *See—* Rodgers, Lester W., and Simpson.
- Simpson, Thomas, Kenilworth, assignor to H. M. Hobson Limited, London, England. Injector for fuel or other liquids. 2,421,810; June 10.
- Simpson, Thomas, Kenilworth, L. S. Greenland, Weston-super-Mare, and D. Ramsay, North Wembley, assignors to H. M. Hobson Limited, London, England. Regulating device for controlling the supply of fuel. 2,419,171; Apr. 15.
- Simpson, Thomas P., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Method and apparatus for operations with contact masses. 2,416,230; Feb. 18.
- Simpson, Thomas P., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Method and apparatus for transferring particle form solids. 2,423,411; July 1.
- Simpson, Thomas P., J. W. Payne, and L. P. Evans, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Apparatus for reactions in a contact mass. 2,417,399; Mar. 11.
- Simpson, Thomas P., J. W. Payne, and J. A. Crowley, Jr., Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Catalytic conversion. 2,419,507; Apr. 22.
- Simpson, Thomas P., J. W. Payne, and J. A. Crowley, Jr., Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Apparatus for catalytic conversion. 2,419,508; Apr. 22.
- Sims, Edgar H., Detroit, Mich. Knockdown miniature house. 2,430,743; Nov. 11.
- Sims, James M., Atlanta, Ga. Insert sole. 2,421,088; May 27.
- Sims, Williams J.: *See—* Mackay, Kenneth M., and Sims.
- Sinclair, Charles L.: *See—* Peacock, Arnold L., and Sinclair.
- Sinclair-Collins Valve Company, The, assignee: *See—* Collins, John E.
- Sinclair, Edward L., Manhasset, N. Y., assignor to Socony-Vacuum Oil Company, Incorporated. Method and apparatus for hydrocarbon conversion. 2,432,344; Dec. 9.
- Sinclair, Edward L., Philadelphia, and W. A. Hagerbaumer, Brookline, Pa., assignors to Socony-Vacuum Oil Company, Incorporated. Method and apparatus for hydrocarbon conversion. 2,418,672; Apr. 8.
- Sinclair, Edward L., Philadelphia, and W. A. Hagerbaumer, Brookline, Pa., assignors to Socony-Vacuum Oil Company, Incorporated. Catalytic conversion of hydrocarbons. 2,418,673; Apr. 8.
- Sinclair, Gilbert C.: *See—* Pierson, Paul R., and Sinclair.
- Sinclair, Harold, Kensington, London, England. Turbine type dual hydraulic coupling. 2,419,919; Apr. 29.
- Sinclair, James A., Houston, Tex. Compressor. 2,419,920; Apr. 29.
- Sinclair Refining Company, assignee: *See—* Bauer, Oscar W., and Teter.
- Herlocker, Robert D., Kleinholz, and Watkins.
- Kleinholz, Milton P.
- Palmer, Robert C.
- Pinkerton, Roderick D.
- Teter, John W.
- Teter, John W., and Merwin.
- Watkins, Franklin M.
- Watkins, Franklin M., and Hack.
- Sinclair, Richard L., assignor to Park-O-Mat, Inc., Los Angeles, Calif. Vehicle parking apparatus. 2,428,856; Oct. 14.
- Sinclair, Robert E., Yakima, Wash. Folding wheelbarrow. 2,431,834; Dec. 2.
- Singer, Fred J., Rockville Centre, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Data transmission system. 2,428,389; Oct. 7.
- Singer, Grover C., Brownsville, Tex. Electric lamp. 2,423,525; July 8.
- Singer, Henry, Honolulu, Hawaii. Rotary finger scrubbing machine. 2,424,509; July 22.
- Singer, Kurt, North Hollywood, Calif., assignor to Radio Corporation of America. Selective transmitting, receiving, and oscillator circuit. 2,421,468; June 3.
- Singer, Kurt, North Hollywood, Calif., assignor to Radio Corporation of America. Color facsimile. 2,428,945; Oct. 14.
- Singer Manufacturing Company, The, assignee: *See—* Ackerman, James E.
- Becker, Rudolph.
- Breul, Frederick W.
- Clayton, Andrew B.
- Fuge, Harry B.
- Hacklander, Hans.
- Happe, Reynold.
- Karle, John D.
- Knaus, Nicholas.
- Nissen, Henry C.
- Parry, Frank, and Pinkvoss.
- Trickey, Philip H.
- Turner, Edgar P.
- Wood, Alfred R.
- Zeiler, Frederick F.
- Zonis, Sydney.
- Singer, Phillip S., Great Neck, N. Y. Link bracelet or the like. 2,421,720; June 3.



- Singstad, Ole, New York, and H. G. Cruthers, Shokan, N. Y. Traffic tunnel and method of tunnel ventilation. 2,427,075; Sept. 9.
- Singy, Ernest, Geneva, Switzerland, assignor to Ygnis S. A. Grate with water cooled bars. 2,418,732; Apr. 8.
- Sinko, John, Oak Park, Ill. Automatic cigar lighter. 2,432,452; Dec. 9.
- Sinks, Allen T., deceased, by A. C. Sinks, administratrix, Beach Bluff, Mass., assignor to General Electric Company. Compass transmitter. 2,414,128; Jan. 14.
- Sinks, Allen T., deceased, by A. C. Sinks, Beach Bluff, Mass., administratrix, assignor to General Electric Company. Remote indicating magnetic compass system. 2,426,470; Aug. 26.
- Sinks, Anna C., administratrix: *See—*  
Sinks, Allen T.
- Sinnett, Chester M., Westmont, N. J., assignor to Radio Corporation of America. Method of and system for enhancing sound reproduction. 2,420,204; May 6.
- Sinnett, Chester M., Westmont, N. J., assignor to Radio Corporation of America. Frequency modulated recording and reproducing system. 2,422,140; June 10.
- Sinnett, Chester M., Westmont, N. J., assignor to Radio Corporation of America. Electrostatic pickup. 2,423,208; July 1.
- Sipe, Martin E., Denver, Colo. Piston skirt expander. 2,418,053; Mar. 25.
- Sipe, Martin E., Denver, Colo. Piston expander. 2,432,687; Dec. 16.
- Sippel, Paul E., Shreveport, La. Mixing machine. 2,429,701; Oct. 28.
- Siroky, Edmond: *See—*  
Matthews, Arthur F., McClure, and Siroky.
- Sirp, Emil, Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Overload release coupling. 2,432,633; Dec. 16.
- Sisk, James T.: *See—*  
Fleming, James H., and Sisk.
- Sisson, Vinton E., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Car coupler operating device. 2,415,610; Feb. 11.
- Sisson, Vinton E., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Refrigerant container for railway cars. 2,429,078; Oct. 14.
- Sisson, Wayne A., Silverside, Del., and Wesley L. Webb, Glen Moore, Pa. Artificial filaments. 2,428,046; Sept. 30.
- Siteman, Lee, Los Angeles, Calif. Shoulder pad for garments. 2,420,799; May 20.
- Sittner, George H., Schenectady, N. Y., assignor to General Electric Company. Apparatus for continuously sheathing cores of material. 2,427,930; Sept. 23.
- Sitton, Philip N., Dayton, Ohio. Dolly. 2,426,244; Aug. 26.
- Sivertsen, Jens, assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Apparatus for applying load to testing machines. 2,421,295; May 27.
- Sivian, Leon J., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Soldering a terminal to a piezoelectric crystal. 2,426,650; Sept. 2.
- Six, Walter J., Indianapolis, Ind. Piston expander. 2,417,665; Mar. 18.
- Sjogren, Walter O., Worcester, Mass. Coupling. 2,420,205; May 6.
- Sjolander, Axel K.: *See—*  
Bergmann, Richard F., and Sjolander.
- Sjöman, Per Y., assignor to Elektriska Svetsningsaktiebolaget, Gothenburg, Sweden. Arc welding electrode. 2,415,149; Feb. 4.
- Sjostrom, Robert L., Andover, Mass. Link feed apron. 2,426,794; Sept. 2.
- Sjostrom, Robert L., Andover, Mass. Magnetic floor sweeper. 2,426,795; Sept. 2.
- Skaggs, Lee D., and V. A. Stair, Clinton, Tenn. Temperature control system. 2,414,339; Jan. 14.
- Skaptason, Joseph B., Woodbridge, Conn., assignor to United States Rubber Company, New York, N. Y. Benzothiazole sulfenamides as fungicides. 2,419,294; Apr. 22.
- Skaptason, Joseph B., Woodbridge, Conn., assignor to United States Rubber Company, New York, N. Y. Thio-carbamoylsulfenamides as fungicides. 2,432,255; Dec. 9.
- Skaptason, Joseph B., Woodbridge, Conn., assignor to United States Rubber Company, New York, N. Y. Fungicides. 2,432,256; Dec. 9.
- Skareen, Willard C.: *See—*  
Earley, Samuel C., and N. B. Sanders, Skareen, Davies, and Hughes.
- Skehan, Joseph W., Stamford, assignor to Machlett Laboratories, Inc., Springdale, Conn. Filament structure for electrical discharge devices. 2,422,141; June 10.
- Skehan, Joseph W., and B. K. M. Magnusson, Stamford, assignors to Machlett Laboratories, Inc., Springdale, Conn. Cathode structure for electron discharge devices. 2,422,142; June 10.
- Skellett, Albert M., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Range indicator. 2,415,855; Feb. 18.
- Skellett, Albert M., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Impulse generator circuits. 2,416,355; Feb. 25.
- Skellett, Albert M., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Time and distance measuring system. 2,426,245; Aug. 26.
- Skellett, Albert M., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Secondary electron emission type of pulse generator. 2,428,819; Oct. 14.
- Skellett, Albert M., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Scale changing system for stroboscopic indicators. 2,432,453; Dec. 9.
- Skellett, Albert M., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Manual range gate for stroboscopic indicators. 2,432,454; Dec. 9.
- Skellett, Albert M., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge apparatus. 2,433,403; Dec. 30.
- Skelly, James J., Cleveland Heights, assignor to Circo Products Company, Cleveland, Ohio. Portable degreaser. 2,427,973; Sept. 23.
- Skelly, John S., Monongahela, Pa., assignor to Combustion Engineering Company, Inc., New York, N. Y. Stoker pusher bar. 2,433,713; Dec. 30.
- Skelly Oil Company, assignee: *See—*  
Edson, Kenneth C., and Fisher.
- Skenandoo Rayon Corporation, assignee: *See—*  
Brown, Alfred S.  
French, Vernon F.
- Skewe, Thomas, Jr., Bayside, assignor to Geigy Company, Inc., New York, N. Y. Development of chromed dyes on nylon by steaming under pressure. 2,421,131; May 27.
- Skilbeck, Gerald W., Kenosha, Wis. Humidifier. 2,416,885; Mar. 4.
- Skilling, William H., Toronto, Ontario, Canada. Apparatus for electromechanically synchronizing a photoelectrically operated signaling system. 2,427,815; Sept. 23.
- Skillsaw, Inc., assignee: *See—*  
Hedemark, Fred.
- Skinker, Murray F., Montclair, N. J., assignor to Federal Telephone & Radio Corporation, New York, N. Y. Contacting device for electrical elements. 2,426,246; Aug. 26.
- Skinker, Murray F., Montclair, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Rectifier assembly and mounting. 2,431,348; Nov. 25.
- Skinker, Murray F., Montclair, and L. B. Haigh, West Orange, assignors to Federal Telephone and Radio Corporation, Newark, N. J. Rectifier and making the same. 2,419,602; Apr. 29.
- Skinner Engine Company, assignee: *See—*  
Ludeman, Oscar H.
- Skinner, George M., Kenmore, N. Y., assignor to National Carbon Company, Inc. Cleaning composition for removing sludge from internal combustion engines. 2,418,908; Apr. 15.
- Skinner, George M., Kenmore, N. Y., assignor to National Carbon Company, Inc. Cleaning composition for removing sludge from internal-combustion engines. 2,418,909; Apr. 15.
- Skinner, George M., Kenmore, N. Y., assignor to National Carbon Company, Inc. Cleaning composition for removing sludge from internal-combustion engines. 2,431,776; Dec. 2.
- Skinner, Hazel B., assignee, et al.: *See—*  
Bucknell, Ernest H., and Bletcher.
- Skinner & Kennedy Stationery Co., assignee: *See—*  
Fisler, William O.
- Skinner, Leslie A.: *See—*  
Lebherz, Harry J., and Skinner.  
Uhl, Edward G., and Skinner.
- Skinner, M. B., Company, assignee: *See—*  
Merrill, Patterson, D.
- Skinner Ralph L., assignee: *See—*  
Kasten, Walter.
- Skinner, Riley S., Sentinel, Okla. Bubble forming device. 2,430,999; Nov. 18.
- Skipper, Edward M., assignor to Locke Insulator Corporation, Baltimore, Md. Method and apparatus for forming blanks for post and pedestal insulators. 2,425,270; Aug. 5.
- Skog, Henry A.: *See—*  
Ewald, Raymond L., and Skog.
- Skoglund, Bertil J.: *See—*  
Doering, Charles and H. H., Anderson, and Skoglund.
- Skolnik, Max, Chicago, Ill. Hardenable plastic composition. 2,418,795; Apr. 8.
- Skolrud, Arthur E., Seattle, Wash. Corn cutter. 2,415,114; Feb. 4.
- Skoo, Robert W., Borger, Tex., assignor to United Carbon Company, Inc. (Maryland), Charleston, W. Va. Rotary pelleting of furnace black. 2,422,989; June 24.
- Skrobisch, Alfred, New York, assignor to Eastern Air Devices, Inc., Brooklyn, N. Y. Dynamically balanced relay. 2,422,861; June 24.
- Skwierawski, Arthur H., West Allis, assignor of one-half to J. M. Herro, Milwaukee, Wis. Drill press attachment. 2,426,124; Aug. 19.
- Slack, Charles M., Glen Ridge, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Short exposure X-ray apparatus. 2,420,844; May 20.
- Slack, Charles M., Glen Ridge, and L. F. Ehrke, South Orange, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Short exposure X-ray apparatus. 2,420,845; May 20.



- Slack, Fred A., Jr., Penn Valley, assignor to R. D. Justi & Son, Inc., Philadelphia, Pa. Composition and method for forming separating films on dental stone. 2,432,688; Dec. 16.
- Slack, Frederic W., Detroit, and C. C. Utz, Magnolia, assignors to Chrysler Corporation, Highland Park, Mich. Vehicle wheel suspension. 2,414,674; Jan. 21.
- Slade, Martin A., Jr.: *See*—  
Gerwe, Ray D., and Slade.
- Slaughter, Charles E., New Canaan, assignor to Extruded Plastics, Inc., Norwalk, Conn. Extrusion of tubing. 2,423,260; July 1.
- Slaughter, Charles E., New Canaan, assignor to Extruded Plastics, Inc., Norwalk, Conn. Extruded resinous bristles. 2,433,325; Dec. 23.
- Slayter, Games, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Insulating fabric. 2,428,591; Oct. 7.
- Slayter, Games, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Apparatus for manufacturing fibrous glass. 2,431,205; Nov. 18.
- Sleeper, Harvey P.: *See*—  
Goldsborough, Shirley L., and Sleeper.
- Sleeper, Paul H., Albion, Mich., assignor to Domestic Industries, Inc., Chicago, Ill. Apparatus for handling trucks and the like. 2,424,196; July 15.
- Slemmons, Charles O., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Track for track-laying vehicles. 2,429,242; Oct. 21.
- Slencil Co., The, assignee: *See*—  
Harris, Carl C., and Bassett.
- Slenker, John A.: *See*—  
Westhaver, Loren J., and Slenker.
- Slepian, Joseph, Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Low-loss conductor for high frequency currents. 2,417,785; Mar. 18.
- Slingluff, Benjamin F.: *See*—  
Moran, James P.
- Sloan, Arthur W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Preparation of N-thioamines. 2,417,954; Mar. 25.
- Sloan, Arthur W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Secondary amines obtained by condensing diaryl amines with acetylene hydrocarbons. 2,419,736; Apr. 29.
- Sloan, Arthur W., Stow, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Condensation products of diolefins with diarylamines and antioxidant compositions containing said products. 2,419,735; Apr. 29.
- Sloan, Clifford K.: *See*—  
Patterson, Gordon D., and Sloan.
- Sloan, Clifford K., Thornton, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chromite ore pigment. 2,419,094; Apr. 15.
- Sloan, Clifford K., Thornton, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Light-stable calcium chromate pigment. 2,430,589; Nov. 11.
- Sloan, David H., Berkeley, Calif., assignor to Research Corporation, New York, N. Y. High-frequency electronic tube. 2,424,002; July 15.
- Sloan, Donald I., Los Angeles, Calif., assignor to Interstate Aircraft and Engineering Corp. Release assembly for bomb shackles. 2,416,028; Feb. 18.
- Sloan, Edward C.: *See*—  
Mayer, Gottfried O., and Sloan.
- Sloan, Edward C., assignor, by mesne assignments, to J. B. Hawley, deceased, Geneva, Ill.; D. M. Hawley and E. Donnelly, administrators, assignors to Hawley Products Company. Textile cone and process of manufacture. 2,429,431; Oct. 21.
- Sloan, Edward C., Geneva, and W. F. Hoag, Batavia, assignors, by mesne assignments, to Kartridg-Pak Machine Co., Chicago, Ill. Banding machine. 2,418,054; Mar. 25.
- Sloan, Gerald, Brooklyn, N. Y. Garment hanger. 2,426,952; Sept. 2.
- Sloan, John I., assignor of one-fifth to J. H. Poe, Tulsa, Okla. Apparatus for mixing drilling mud. 2,423,801; July 8.
- Sloan, Theodore H., Charleroi, assignor to G. M. S. Corporation, Pittsburgh, Pa. Making glassware. 2,417,328; Mar. 11.
- Sloane-Blabon, assignee: *See*—  
Kemmler, James W.
- Kemmler, James W., and Erb.
- Sloane, Robert W., Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Seal. 2,423,052; June 24.
- Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Fluid-operated control system. 2,415,915; Feb. 18.
- Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Cable reel switch. 2,415,916; Feb. 18.
- Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Mounting for fluid pumps. 2,432,825; Dec. 16.
- Slocumb, F. F., Corporation, assignee: *See*—  
Stout, Frederick S., and Amelunxen.
- Slocum, Donley L., Wilkes-Barre, Pa. Skate runner sharpener. 2,428,473; Oct. 7.
- Sloman, Irving, assignor to Natural Casing Institute, Inc., New York, N. Y. Blade holder and replaceable blade. 2,432,345; Dec. 9.
- Slomer, Joseph J., assignor to Goodman Manufacturing Company, Chicago, Ill. Fluid operated control system. 2,417,524; Mar. 18.
- Slomer, Joseph J., assignor to Goodman Manufacturing Company, Chicago, Ill. Fluid control valve. 2,417,709; Mar. 18.
- Slonezewski, Thaddeus: *See*—  
Felch, Edwin P., Jr., and Slonezewski.  
Laird, Arthur G., and Slonezewski.
- Sloop, Kenneth D.: *See*—  
Kagy, John F., and Sloop.
- Slopa, George W., Chicago, Ill. Door actuating mechanism. 2,416,459; Feb. 25.
- Sloss, Robert, Audubon, N. J., assignor to Radio Corporation of America. Ultra high frequency electron discharge device system. 2,425,352; Aug. 12.
- Slotkin, George, St. Louis, Mo. Coin purse. 2,414,615; Jan. 21.
- Slotsky, Sam J.: *See*—  
Hingsten, August F., and Slotsky.
- Slotterbeck, Ober C.: *See*—  
Chambers, Thomas S., and Slotterbeck.
- Slotterbeck, Ober C., Rahway, N. J., assignor to Standard Oil Development Company. Alkylation. 2,425,572; Aug. 12.
- Slotterbeck, Ober C., Clark Township, Union County, and C. E. Morrell, Westfield, N. J., assignors to Standard Oil Development Company. Process of separating alpha methyl styrene from a mixture containing cumene. 2,423,802; July 8.
- Slough, Phillip, Detroit, Mich. Fish lure. 2,419,295; Apr. 22.
- Slowig, Gerhard, Astoria, N. Y. Shaft coupling. 2,423,568; July 8.
- Slusher, Frank, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Torsional testing apparatus. 2,420,385; May 13.
- Sly, Caryl: *See*—  
Signaigo, Frank K., and Sly.
- Small, Arthur D., U. S. Army, Washington, D. C. Dehydration of emulsions. 2,420,687; May 20.
- Small, Edward F., Newton, assignor to Bird Machine Company, South Walpole, Mass. Centrifugal separator with oscillating scraper. 2,414,421; Jan. 14.
- Small, Edward F., Newton, assignor to Bird Machine Company, South Walpole, Mass. Gear drive. 2,422,933; June 24.
- Small, Edward F., Newton, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Securing heels to shoes. 2,423,908; July 15.
- Small, Edward F., Newton, assignor to Compo Shoe Machinery Corporation, Boston, Mass. Lasting machine. 2,429,333; Oct. 21.
- Small, Frank S., St. Louis, Mo., assignor of one-half to E. P. Reising, Evansville, Ind. Securement means for shingle and siding units. 2,413,794; Jan. 7.
- Small, James K., Westfield, N. J., and R. A. Given, Lake Charles, La., assignors to Standard Oil Development Company. Butadiene extraction. 2,420,915; May 20.
- Smaller, Bernard, Chicago, Ill. Multiunit, single scale oximeter. 2,423,855; July 15.
- Smalley, Harold B.: *See*—  
Warner, Ralph, and Smalley.
- Smallman, I., & Sons, assignee: *See*—  
Smallman, Murray.
- Smallman, Murray, Flushing, N. Y., assignor to I. Smallman & Sons, Garfield, N. J. Wallet construction having secret compartment. 2,433,714; Dec. 30.
- Smallpelce, Cosby D. P., near Southampton, England. Chuck for machine tools. 2,426,376; Aug. 26.
- Smally, Emanuel C., Canton, Ohio. Incandescent lamp. 2,416,853; Mar. 4.
- Smart, Clarence F., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Indium plating. 2,423,624; July 8.
- Smart, Ralph F., St. Louis, Mo. Foldable cardboard box. 2,424,716; July 29.
- Smart, Sidney K., Agawam, and A. L. Brownlee, assignors to Wico Electric Company, West Springfield, Mass. Ignition apparatus. 2,433,715; Dec. 30.
- Smedberg, George E., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for feeding granular salt into a fused salt electrolysis cell. 2,432,973; Dec. 16.
- Smedley, William M., Annapolis, Md. Preparing 2,5-di-chlorodioxane. 2,414,982; Jan. 28.
- Smekta, Alex P., assignee: *See*—  
Davis, Oran L., and Rice.
- Smellie, Donald G., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,418,371; Apr. 1.
- Smellie, Robert H.: *See*—  
Kriebel, Vernon K., and Smellie.
- Smely, Vaclav, Pelton, England. Centrifugal separator. 2,416,073; Feb. 18.
- Smidl, Joseph J., Portland, Ore. Slide rule cursor. 2,418,910; Apr. 15.
- Smidth, F. L., & Co., assignee: *See*—  
Horm, Knud.
- Smit, J. K., & Sons of Canada Limited, assignee: *See*—  
Lake, William G.



- Smith, A. O., Corporation, assignee: *See*—  
Crawford, William E.  
Harlamoff, Anatol J.  
Higgins, Waldo W.  
Malke, Sven.  
Palm, Frederick.  
Sherman, Donald W.  
Tiedemann, Julius B.
- Smith, Adelbert B., assignor to A. Paulin, Worcester, N. Y. Fishing device. 2,414,907; Jan. 28.
- Smith, Adrian J. and W. I. Evans, said Smith assignor to Rollway Equipment Company, Los Angeles, Calif. Foldable basket carriage. 2,429,034; Oct. 14.
- Smith, Albert E., and O. A. Beeck, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Thermostable catalysts for the dehydrogenation of hydrocarbons. 2,422,172; June 10.
- Smith, Albert E., and O. A. Beeck, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Preparation of an alumina supported molybdenum oxide catalyst. 2,422,372; June 17.
- Smith, Albert P.: *See*—  
Andrews, Daly P., Heeger, and Smith.
- Smith, Algernon L.: *See*—  
Deems, Frank E., and Smith.
- Smith, Algernon L., Birmingham, Ala., assignor to Continental Gin Company. Cotton cleaner. 2,421,526; June 3.
- Smith, Alonzo L., Houston, Tex. Method and apparatus for identifying formation samples. 2,414,246; Jan. 14.
- Smith, Andrew, Milwaukee, Wis. Combined aeroplane and helicopter. 2,423,625; July 8.
- Smith, Archie G., Tonkawa, Okla. Well pumping equipment. 2,429,848; Oct. 28.
- Smith, Arthur A.: *See*—  
Vokes, Cecil G., and Smith.
- Smith, Arthur B., Evanston, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Amplifying device. 2,428,687; Oct. 7.
- Smith, Arthur E. W., R. H. Stanley, and C. W. Scaife, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited. Preparation of  $\beta$ -nitro-ethyl ethers. 2,416,650; Feb. 25.
- Smith, Arthur E. W., and C. W. Scaife, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited. Preparation of *n*-nitroisobutene. 2,417,380; Mar. 11.
- Smith, Arthur E. W., C. W. Scaife, and R. H. Stanley, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited. Production of  $\beta$ -nitroethanol and  $\beta$ -nitroethyl nitrate. 2,424,510; July 22.
- Smith, Alva T., Milwaukee, Wis. Article for simulating animation. 2,420,986; May 20.
- Smith, Alvin L.: *See*—  
Norstrom, Joseph, and Smith.
- Smith, Bernard P., Los Angeles, Calif. Vacuum drain stopper. 2,425,964; Aug. 19.
- Smith, Bernard P., Montville, N. J. Honing device for straight razors. 2,431,624; Nov. 25.
- Smith, Bertha R., assignee, et al.: *See*—  
Dehm, Edward.
- Smith, Blanchard D., Atlanta, Ga., assignor to Scripto Inc. Magazine pencil. 2,418,854; Apr. 15.
- Smith, Carl E., Arlington, Va. Electromechanical calculator. 2,418,238; Apr. 1.
- Smith, Carlos B., and H. L. Bullock, New York, N. Y. Sludge settling and dewatering tank comprising a tank provided with a vertical partition dividing it into compartments, a flow distributor and weir for each compartment, and a conveyor for each compartment for removing settled solids. 2,414,176; Jan. 14.
- Smith, Carroll, Shreveport, La. Cover operating mechanism. 2,423,909; July 15.
- Smith, Charles C., assignor to The Locomotive Finished Material Company, Atchison, Kans. Packing ring. 2,425,649; Aug. 12.
- Smith, Charles C., assignor to Faraday Electric Corporation, Adrian, Mich. Variable impulse transmitter. 2,430,371; Nov. 4.
- Smith, Charles G., Medford, assignor to Raytheon Manufacturing Company, Newton, Mass. Welding system. 2,428,390; Oct. 7.
- Smith, Charles G., Medford, assignor to Raytheon Manufacturing Company, Newton, Mass. Gaseous electric lamp. 2,430,482; Nov. 11.
- Smith, Charles G., Medford, assignor to Raytheon Manufacturing Company, Newton, Mass. Light generating device. 2,433,404; Dec. 30.
- Smith, Charles S., Westfield, and W. H. Rowand, Meadowbrook Village, assignors to The Babcock & Wilcox Company, Newark, N. J. Air heater. 2,424,587; July 29.
- Smith, Chetwood, Worcester, Mass. Pressure and temperature relief valve. 2,420,206; May 6.
- Smith, Clarence C., Flushing, assignor to International Business Machines Corporation, New York, N. Y. Photographic justifying apparatus. 2,421,656; June 3.
- Smith, Clarence C., assignor to Union Special Machine Company, Chicago, Ill. Take-up means for sewing machines. 2,430,084; Nov. 4.
- Smith, Clarence C., assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. 2,430,370; Nov. 4.
- Smith, Clarence C., assignor to Union Special Machine Company, Chicago, Ill. Thread stand for sewing machines. 2,430,832; Nov. 11.
- Smith, Clarence J., Mason City, Iowa. Float valve. 2,433,166; Dec. 23.
- Smith, Claude R., Philadelphia, Pa., assignor to United States of America, as represented by the Secretary of Agriculture. Oil-soluble copper-nicotine compounds and preparing same. 2,414,213; Jan. 14.
- Smith, Cleveland S., Indianapolis, Ind., assignor to S. Ruben, New Rochelle, N. Y. Selenium rectifier and making. 2,426,377; Aug. 26.
- Smith, Cleveland S., Jr., Bartlett, Tenn., and L. A. Seder, Lynn, Mass., assignors to General Electric Company. Apparatus for treating selenium rectifiers. 2,418,055; Mar. 25.
- Smith, Cleveland S., Jr., West Orange, N. J., and S. Blumenthal, Indianapolis, Ind.; said Smith assignor to S. Ruben, New Rochelle, N. Y., and said Blumenthal assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Selenium depositing machine. 2,423,051; June 24.
- Smith, Clyde E.: *See*—  
Hansen, Hans H., and Smith.
- Smith, Coleman G.: *See*—  
Pancake, Herman H., and Smith.
- Smith, Cyril S., Cheshire, Conn., assignor to The American Brass Company. Precipitation hardenable copper, nickel, tantalum (or columbium) alloys. 2,430,306; Nov. 4.
- Smith, Dale T., Anoka, Minn. Portable engine-maintenance stand. 2,427,695; Sept. 23.
- Smith, David B., Flourtown, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Radio receiver for frequency modulated signals. 2,419,696; Apr. 29.
- Smith, David F., Grosse Ile, assignor, by mesne assignments, to Wyandotte Chemicals Corporation, Wyandotte, Mich. Purification of caustic soda and production of caustic compound. 2,418,372; Apr. 1.
- Smith, Donald H., Boulder, Colo. Spur holder. 2,432,102; Dec. 9.
- Smith, Donald L., Dunellen, N. J., assignor to Air Reduction Company, Incorporated. Exhaust hood for welding machines. 2,421,469; June 3.
- Smith, E. F., assignee: *See*—  
Taylor, August M.
- Smith, Earl C., assignor of one-half to L. A. Harris, Fairfield, Mont. Ditching machine. 2,426,847; Sept. 2.
- Smith, Edgar A., Huntington, Oreg. Ring joint grinding mechanism. 2,431,777; Dec. 2.
- Smith, Edgar M., Trenton, N. J., assignor to The Brown Instrument Company, Philadelphia, Pa. Temperature measuring system. 2,428,129; Sept. 30.
- Smith, Edgar M., Trenton, N. J., assignor to The Brown Instrument Company, Philadelphia, Pa. Control apparatus. 2,431,281; Nov. 18.
- Smith, Edward A.: *See*—  
Upson, Maxwell M., and Smith.
- Smith, Edward L., Tarrytown, N. Y., and C. Wasserman, Layton, N. J. Display device formed of sheet material. 2,427,629; Sept. 16.
- Smith, Edward L., Tarrytown, N. Y. Foldable sheet material display device. 2,431,835; Dec. 2.
- Smith, Edward P., assignor to The Ohio Brass Company, Mansfield, Ohio. Starter for electric motors. 2,417,710; Mar. 18.
- Smith, Edward P., assignor to The Ohio Brass Company, Mansfield, Ohio. Pothead. 2,426,157; Aug. 19.
- Smith, Edward P., and W. H. Utz, Mansfield, Ohio. Cartridge-fuse receptacle with terminal clamping means. 2,414,422; Jan. 14.
- Smith, Edward P., and W. H. Utz, Mansfield, Ohio. Circuit distribution box. 2,414,423; Jan. 14.
- Smith, Edward W., Melrose, assignor to Submarine Signal Company, Boston, Mass. Apparatus for submarine signalling. 2,419,603; Apr. 29.
- Smith, Edwin Comer: *See*—  
Collins, Laurence H., and Smith.
- Smith, Edwin G.: *See*—  
Morton, William A., and Smith.
- Smith, Elmer H.: *See*—  
Ryan, Byron F., and Smith.
- Smith, Elmer L., Longmeadow, and C. Wetsel, assignors to Package Machinery Company, Springfield, Mass. Machine for repositioning cartridge and link belts. 2,430,193; Nov. 4.
- Smith, Elmer P.: *See*—  
Howe, Lewis G., Smith, and Annis.
- Smith, Elmo E., Villa Park, assignor to Croname, Incorporated, Chicago, Ill. Universal joint. 2,433,791; Dec. 30.
- Smith Engineering Works, assignee: *See*—  
Munro, Alexander L.
- Smith, Ernest F.: *See*—  
Gibbs, William J., and Smith.
- Smith, F. A., Manufacturing Company, assignee: *See*—  
Bean, Frank R.
- Smith, F. P., Wire and Iron Works, assignee: *See*—  
Fruendt, Richard J.
- Smith, Forrest A., Fort Worth, Tex. Pipe cleaning oven. 2,416,412; Feb. 25.
- Smith, Forrest E., U. S. Navy. Friction seal coupling. 2,416,357; Feb. 25.



- Smith, Francis H., Woodstown, N. J., and C. E. Sparks, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Azo printing composition. 2,416,549; Feb. 25.
- Smith, Frank B.: *See*—  
Coleman, Gerald H., and Smith.  
Hansen, John N., and Smith.
- Smith, Frank E.: *See*—  
Wirshing, Ralph J., and Smith.
- Smith, Frank J., Colchester, Conn. Steel for Hawaiian guitars. 2,416,854; Mar. 4.
- Smith, Frank R. E., and L. E. Willett, assignors to Chamberlin Company of America, Detroit, Mich. Detention screen. 2,417,711; Mar. 18.
- Smith, Fred T., Cowley, Wyo. Land leveler. 2,428,857; Oct. 14.
- Smith, Fred W., Cincinnati, H. W. Greider, Wyoming, and L. K. Becker, Cincinnati, Ohio, assignors to The Philip Carey Manufacturing Company. Molded fiber-cement composition product. 2,421,721; June 3.
- Smith, George A., assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa. Well surveying device. 2,414,702; Jan. 21.
- Smith, George A., assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa. Apparatus for orienting drill stems. 2,419,468; Apr. 22.
- Smith, George E. P., Jr., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Sulfenamides. 2,415,029; Jan. 28.
- Smith, George E. P., Jr., and E. L. Carr, Akron, Ohio, assignors to The Firestone Tire & Rubber Company. Thiocarbonyl sulfenamides. 2,424,921; July 29.
- Smith, George G., Elgin, Ill. Synchronous timer. 2,432,346; Dec. 9.
- Smith, George H., Kenmore, N. Y., assignor to The Linde Air Products Company. Mineral working apparatus. 2,418,200; Apr. 1.
- Smith, George M., assignor to American Machinery Corporation, Orlando, Fla. Automatic grading table with gauging slots. 2,426,953; Sept. 2.
- Smith, George W., assignor to Hall Laboratories, Inc., Pittsburgh, Pa. Mixing the effluent of a potassium base exchanger with water for use in boilers. 2,433,167; Dec. 23.
- Smith, Gilbert H.: *See*—  
Burrows, Lawton A., Loving, Nydegger, and Smith.
- Smith, H. Christa, assignee: *See*—  
Manna, Cecil A.
- Smith, H. P., Paper Company, assignee: *See*—  
Coffey, Elmer W.
- Smith, Hamilton, Clifton, assignor, by mesne assignments, to Kelton Manufacturing Co., Bloomfield, N. J. Support for outlet boxes. 2,432,555; Dec. 16.
- Smith, Harold A., Delavan, Wis., assignor to The George W. Borg Corporation, Chicago, Ill. Coin selector and slug rejector. 2,431,432; Nov. 25.
- Smith, Harold E.: *See*—  
Jacobson, Irving, and Smith.
- Smith, Harold J., Long Branch, N. J., assignor to the United States of America, as represented by the Secretary of War. Insulator protecting device. 2,428,391; Oct. 7.
- Smith, Harvey J., assignor to N. B. Smith, Danville, Va. Combined display rack, oil saver, and waste can receptacle. 2,432,455; Dec. 9.
- Smith, Helen E., New York, N. Y. Article of wearing apparel. 2,417,787; Mar. 18.
- Smith, Helen E., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Refrigerator shelf. 2,421,089; May 27.
- Smith, Helmer E., Shelton, Iowa. Poultry feeder. 2,429,777; Oct. 28.
- Smith, Henry R., Dayton, Ohio, assignor to The United States of America, as represented by the Secretary of War. Coaxial switch. 2,425,010; Aug. 5.
- Smith, Herbert C., Los Angeles, 5, Calif., assignor to American Rock Wool Corp., Wabash, Ind. Utilizing borate tailings. 2,414,068; Jan. 7.
- Smith, Herbert J., West Warwick, assignor to U. S. Ring Traveler Company, Providence, R. I. Ring and traveler. 2,413,930; Jan. 7.
- Smith, Herbert O.: *See*—  
Goldthwait, Charles F., Smith, and Barnes.
- Smith, Herschel G., Wallingford, assignor to Gulf Oil Corporation, Pittsburgh, Pa. Rotary filter. 2,422,373; June 17.
- Smith, Herschel G., Wallingford, and M. L. Hill, Yeadon, assignors to Gulf Oil Corporation, Pittsburgh, Pa. Stabilized insecticide. 2,421,223; May 27.
- Smith, Herschel G., Wallingford, and T. L. Cantrell, Lansdowne, Pa., and J. G. Peters, Audubon, N. J., assignors to Gulf Oil Corporation, Pittsburgh, Pa. Diesel fuel oils. 2,433,243; Dec. 23.
- Smith, Herschel G., Wallingford, T. L. Cantrell, Lansdowne, and M. L. Hill, Yeadon, assignors to Gulf Oil Corporation, Pittsburgh, Pa. Diesel fuel oils. 2,433,716; Dec. 30.
- Smith, Hiram P., Canton, Ill., assignor to International Harvester Company. Drive mechanism for planters. 2,430,741; Nov. 11.
- Smith, Horace L., Jr., Richmond, Va., assignor to Chain Belt Company, Milwaukee, Wis. Can feeding mechanism. 2,421,527; June 3.
- Smith, Howard B., Washington, D. C. Stenographic type-writing machine. 2,419,737; Apr. 29.
- Smith, Howard C., assignee: *See*—  
Sylvester, Harold K.
- Smith, Howard, Paper Mills, Limited, assignee: *See*—  
Tomlinson, George H.
- Smith, Hugh D., U. S. Army, Richmond, Va. Article-inverting apparatus. 2,424,258; July 22.
- Smith, Hugo: *See*—  
Norberg, Harold, and Smith.
- Smith, Hurley, Buffalo, N. Y. Pocket shield or protector. 2,417,786; Mar. 18.
- Smith, J. B., assignee: *See*—  
Godfrey, Ralph M. and L. L.
- Smith, J. Ernest: *See*—  
Bliss, Warren H., and Smith.
- Smith, James A., Jr.: *See*—  
Bowen, Hugh S., and Smith.
- Smith, James A., Jr., North Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y. Halogenated phenacylpyridines and preparing the same. 2,414,398; Jan. 14.
- Smith, James E., Pittsburgh, Tex. Variable stroke radial cylinder type pump. 2,417,183; Mar. 11.
- Smith, James H., Vallejo, Calif. Mirror protective coating. 2,425,011; Aug. 5.
- Smith, Jasper A., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Refrigerated cabinet with selective access. 2,421,439; June 3.
- Smith, Jay C., Seattle, Wash. Trailer vehicle. 2,430,742; Nov. 11.
- Smith, John G., West Memphis, Ark. Spotting rack apparatus. 2,414,983; Jan. 28.
- Smith, John J.: *See*—  
Mueller, Frank H., and Smith.
- Smith, John O., Jr., Cranford, assignor to Tide Water Associated Oil Company, Bayonne, N. J. Catalytic dehydrogenation of hydrocarbons. 2,424,636; July 29.
- Smith, John O., Jr., Cranford, assignor to Tide Water Associated Oil Company, Bayonne, N. J. Process and catalyst for aromatizing aliphatic hydrocarbons. 2,424,637; July 29.
- Smith, John P., assignee: *See*—  
Jones, Thomas R.
- Smith, John P., Cranbury, N. J., assignor to Radio Corporation of America. Recorder for radar systems. 2,430,307; Nov. 4.
- Smith, John S., Ramsey, assignor to Botany Worsted Mills, Passaic, N. J. Cop holding spindle for spinning or twisting yarn. 2,417,525; Mar. 18.
- Smith, Joseph E., and P. J. Mitchell, Jr., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Aqueous dispersions of salicylanilide. 2,416,460; Feb. 25.
- Smith, Joseph H., assignor to Humphreys & Glasgow Limited, Westminster, England. Apparatus for the prevention of leakage in gas generators. 2,430,652; Nov. 11.
- Smith, Joseph P., Pyrmont, New South Wales, Australia. Sluice box with water distribution pipes. 2,422,442; June 17.
- Smith, Keith V., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Combustion chamber. 2,422,213; June 17.
- Smith, Kenneth L., Monterey Park, Calif. Welding electrode holder. 2,430,536; Nov. 11.
- Smith, Kline & French Laboratories, assignee: *See*—  
Wallace, Theodore B.
- Smith, L. B., Incorporated, assignee: *See*—  
Stranahan, Willard W.
- Smith, Lafayette B., Columbus, Ohio. Reciprocating fluid-actuated motor with fluid-actuated distributing valve. 2,428,640; Oct. 7.
- Smith, Lawson A., assignor to R. H. Clark, Los Angeles, Calif. Tool. 2,427,816; Sept. 23.
- Smith, Lawson A., assignor to R. H. Clark, Los Angeles, Calif. Cutting tool. 2,428,099; Sept. 30.
- Smith, Lawson A., assignor to Robert H. Clark, Los Angeles, Calif. Socket for drilling and countersinking tools. 2,429,375; Oct. 21.
- Smith, Lee B.: *See*—  
Calfee, John D., and Smith.
- Smith, Lee I., Minneapolis, Minn., and G. F. Rouault, Whiting, Ind., assignors to Regents of the University of Minnesota, Minneapolis, Minn. Manufacture of 2,6-dimethyl-heptanoic acid. 2,417,220; Mar. 11.
- Smith, Lee I., and J. A. Sprung, assignors, to Regents of the University of Minnesota, Minneapolis, Minn. Long chain aliphatic halides and preparing same. 2,421,090; May 27.
- Smith, Lee I., and H. E. Ungnade, assignors to Regents of the University of Minnesota, Minneapolis, Minn. Producing chroman compounds. 2,421,811; June 10.
- Smith, Lee I., and H. E. Ungnade, assignors to Regents of the University of Minnesota, Minneapolis, Minn. Producing chroman compounds. 2,421,812; June 10.
- Smith, Leon A., assignor to The Shelby Cycle Company, Shelby, Ohio. Wheel spoke nut driving machine. 2,422,593; June 17.
- Smith, Lloyd A., Hatboro, Pa. Tube beading tool. 2,427,026; Sept. 9.
- Smith, Lloyd P., Princeton, N. J., assignor to Radio Corporation of America. Electron discharge device having coupled coaxial line resonators. 2,419,172; Apr. 15.



- Smith, Louie F., South Houston, Tex. Drill rod. 2,419,738; Apr. 29.
- Smith, Maurice: *See*—  
Rhodes, Lane, and Smith.
- Smith Meter Company, assignee: *See*—  
Steen, William E.
- Smith, Nevlin B., Hamburg, assignor to Landis Machine Company, Waynesboro, Pa. Metal working machine. 2,417,091; Mar. 11.
- Smith, Nona B., assignee: *See*—  
Smith, Harvey J.
- Smith, Omer W., Owensboro, Ky. Renewable cartridge fuse. 2,433,792; Dec. 30.
- Smith, Perry C.: *See*—  
Runge, Frank E., and Smith.
- Smith, Perry C., assignor to Radio Corporation of America, Moorestown, N. J. Heat dissipating electron microscopes. 2,418,321; Apr. 1.
- Smith, Perry C., Moorestown, N. J., assignor to Radio Corporation of America. Magnetic electron lens system. 2,418,432; Apr. 1.
- Smith, Perry C., Moorestown, N. J., assignor to Radio Corporation of America. Electron gun mounting. 2,420,207; May 6.
- Smith, Perry C., Moorestown, F. E. Runge, Haddon Heights, and E. G. Dornfeld, Audubon, N. J., assignors to Radio Corporation of America. Specimen holder assembly. 2,421,722; June 3.
- Smith, Perry C., Moorestown, N. J., assignor to Radio Corporation of America. Ascertaining the atomic structure of materials. 2,422,807; June 24.
- Smith, Pierson K.: *See*—  
Curl, Harold E., and Smith.
- Smith, Prevost F., San Diego, Calif. Parachute cluster. 2,421,167; May 27.
- Smith, Putnam M., assignor of one-half to A. L. James, Jr., Redwood Falls, Minn. Foul detector and indicator for bowling alleys. 2,417,092; Mar. 11.
- Smith, Ralph C., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Ether sulphonates and their production. 2,427,576; Sept. 16.
- Smith, Ralph C., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Production of ether sulphonates. 2,427,577; Sept. 16.
- Smith, Ralph E.: *See*—  
Moore, George E., and Smith.
- Smith, Ralph N., Los Angeles, Calif. Invalid lift and transfer device. 2,418,606; Apr. 8.
- Smith, Ralph W., Walton, N. Y. Wiring system for outdoor auto theatres. 2,420,103; May 6.
- Smith, Richard, assignee: *See*—  
Moreland, Harry W., Jr.
- Smith, Robert H.: *See*—  
Woolfer, Robert A., and Smith.
- Smith, Robert K., Cranford, N. J., assignor to Standard Oil Development Company. Stabilized alkaryl amine and preparing. 2,422,503; June 17.
- Smith, Robert L.: *See*—  
Buckley, Donald J., and Smith.
- Smith, Robert T., Eufula, Okla. Wing mounted flap. 2,415,710; Feb. 11.
- Smith, Rogers M., Merchantville, N. J., assignor to Radio Corporation of America. Radio pulse echo system. 2,417,136; Mar. 11.
- Smith, Roland L., Belmont, assignor to Nuproductions Corporation, Cambridge, Mass. Rack for supporting and displaying wearing apparel. 2,429,173; Oct. 14.
- Smith, Rolland D., Euclid, assignor to Auto-Diesel Piston Ring Company, Cleveland, Ohio. Razor blade hone. 2,429,334; Oct. 21.
- Smith, Ronald B., Greensburg, assignor to Elliott Company, Jeannette, Pa. Gas turbine cycle. 2,418,911; Apr. 15.
- Smith, Ronald B., and F. O. Hennig, Greensburg, assignors to Elliott Company, Jeannette, Pa. Turbine. 2,428,999; Oct. 14.
- Smith, Roy E.: *See*—  
Moffett, Eugene W., and Smith.
- Smith, S., & Sons (England) Limited, assignee: *See*—  
Hurn, Francis J.  
Meredith, Frederick W.
- Smith, Sam, Durham, N. H. Method of making open heel shoes. 2,425,050; Aug. 5.
- Smith, Sidney E., Jr., Pittsfield, Mass., assignor to General Electric Company. Electric circuit breaker. 2,424,126; July 15.
- Smith, Stanley B., assignor to Bendix Aviation Corporation, South Bend, Ind. Auxiliary charge metering device. 2,431,590; Nov. 25.
- Smith, Stanley J., assignor to Simmonds Aerocessories Limited, London, England. Electric follow-up system. 2,420,501; May 13.
- Smith, Temple C., Westfield, N. J., assignor to American Telephone and Telegraph Company. Earth boring machine. 2,421,970; June 10.
- Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Valve seat seal for high pressures. 2,414,908; Jan. 28.
- Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Drum clothes drier including means for circulating the drying gas over the evaporator and condenser coils of a refrigerating device. 2,418,239; Apr. 1.
- Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Seal guard ring. 2,420,104; May 6.
- Smith, Thurman V., Centerville, Utah. Tire inflation stand. 2,418,855; Apr. 15.
- Smith, Trafton D., Pontiac, Mich. Shipping block. 2,420,800; May 20.
- Smith, Walter F.: *See*—  
Buist, Jack M., Harper, Smith, and Welding.  
Cook, James G., Harper, Reynolds, and Smith.  
Furness, Will, Perrins, and Smith.
- Smith, Walter H., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Torpedo control. 2,419,173; Apr. 15.
- Smith, Warren H., assignor to General Motors Corporation, Detroit, Mich. Fuel pump injection. 2,417,137; Mar. 11.
- Smith, Warren M., Baton Rouge, La., and C. J. Wilson, Norwalk, Conn., assignors to Standard Oil Development Company. Antioxidant. Re. 22,909; Aug. 26.
- Smith, Wilfred S., Bedford, and F. J. Walters, Bedford Park, London, England. Change-speed conversion unit. 2,419,797; Apr. 29.
- Smith, William A., Pittsburgh, Pa. Condensation of hydrocarbons. 2,422,443; June 17.
- Smith, William F.: *See*—  
Stauffer, Robert E., and Smith.  
Trivelli, Adrian P. H., and Smith.
- Smith, William F., assignor to Hercules Powder Company, Wilmington, Del. Connecting explosive cartridges. 2,429,079; Oct. 14.
- Smith, William G., and J. L. Neys, Portland, Oreg. Spot facing machine. 2,415,569; Feb. 11.
- Smith, William I., Perrysburg, assignor to The Hettrick Manufacturing Company, Toledo, Ohio. Swing. 2,423,950; July 15.
- Smith, William R., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Catalytic isomerization. 2,417,221; Mar. 11.
- Smith, William R., and W. F. Glassmire, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y. Reduction of corrosive action of Friedel-Crafts type catalysts. 2,420,386; May 13.
- Smith, William W.: *See*—  
Rushmer, Arnold, and Smith.
- Smith, William W., assignor to The Electric Storage Battery Company, Philadelphia, Pa. Making battery separators. 2,414,177; Jan. 14.
- Smith, Winthrop C., Elizabeth, and J. P. Haworth, Westfield, N. J., assignors to Standard Oil Development Company. Punctureproof fuel cell. 2,416,231; Feb. 18.
- Smith, Wolcott M., Springfield, assignor to The F. W. Sickles Company, Chicopee, Mass. Differential vacuum tube voltmeter. 2,432,826; Dec. 16.
- Smoker, Edward H., Drexel Hill, Pa., assignor to The United Gas Improvement Company. Azeotropic distillation of other aromatic hydrocarbons from styrene with acetic acid. 2,423,412; July 1.
- Smoot, Charles H., assignor to Republic Flow Meters Company, Chicago, Ill. Control instrument. 2,427,235; Sept. 9.
- Smout, Donald D.: *See*—  
Smout, Donald T. and D. D.
- Smout, Donald T. and D. D., Darlington, England. Welding electrode holder. 2,421,723; June 3.
- Smulski, Theodore J., Gary, Ind., assignor to Productive Inventions, Inc. Automatic blade clip. 2,432,689; Dec. 16.
- Smulski, Theodore J., Gary, Ind., assignor to Productive Inventions, Inc. Windshield wiper arm and blade connector. 2,432,690; Dec. 16.
- Smulski, Theodore J., Gary, Ind., assignor to Productive Inventions, Inc. Windshield wiper blade connector. 2,432,691; Dec. 16.
- Smulski, Theodore J., Gary, Ind., assignor to Productive Inventions, Inc. Connecting windshield wiper units to arm units. 2,432,692; Dec. 16.
- Smylie, James G., Houston, Tex. Gun perforator. 2,418,486; Apr. 8.
- Smyth, John R., East Cleveland, assignor to Willard Storage Battery Company, Cleveland, Ohio. Storage battery. 2,416,651; Feb. 25.
- Snaveley, Clarence S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Three position electromagnet. 2,425,843; Aug. 19.
- Snell, Edward, Westeros, Alberta, Canada. Reciprocating load carrier. 2,430,537; Nov. 11.
- Snell, Foster D.: *See*—  
Tilden, Sydney G., Snell, and Fain.
- Snell, Foster D., Inc., assignee: *See*—  
Tilden, Sydney G., Snell, and Fain.
- Snell, Francis A., assignor, by mesne assignments, to B M C Manufacturing Corporation, Binghamton, N. Y. Lever-actuated pivoted-jaw wrench. 2,420,020; May 6.
- Snevangers, René, Haddon Heights, N. J., assignor to Radio Corporation of America. Signal translating apparatus. 2,417,712; Mar. 18.
- Snevangers, René, Haddon Heights, N. J., assignor to Radio Corporation of America. Electric phonograph pickup of the capacity type. 2,426,061; Aug. 19.
- Sneva, Ingolf, assignor to W. F. Meyers Company, Bedford, Ind. Radius former for end mills. 2,421,358; May 27.
- Snider, Alva V.: *See*—  
Morris, Rupert C., and Snider.



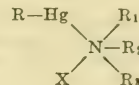
- Snider, Alva V., Richmond, and J. L. Van Winkle, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Insecticidal compositions. 2,424,860; July 29.
- Snider, Joseph M., Princeton, W. Va. Weather stripping and sash control. 2,426,567; Aug. 26.
- Snively, Andrew J., Huntington Woods, assignor to Bundy Tubing Company, Detroit, Mich. Method of tube drawing. 2,428,474; Oct. 7.
- Snodgrass, Robert W., Mount Morris, Mich. Cigarette making device. 2,427,884; Sept. 23.
- Snook, Harry N.: *See*—  
Hansen, Lloyd D., and Hegeman, and Snook.  
Harris, Fred E., Hegeman, and Snook.
- Snook, Samuel L., Mason, L. Naveken, Cincinnati, and C. G. Kehoe, Foster, Ohio, assignors to Remington Arms Company, Inc., Bridgeport, Conn. Screw-feed gauging and sorting machine. 2,415,970; Feb. 18.
- Snow, Donald L., Hempstead, E. L. Ginzton, Wantagh, and D. R. Hamilton, Garden City, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. High-frequency tube structure. 2,429,243; Oct. 21.
- Snow, Henry: *See*—  
Fletcher, Ed., and Snow.
- Snow, Howard, Charlotte, N. C., assignor to Southern Friction Materials Company. Manufacture of impregnated flexible fabric. 2,424,861; July 29.
- Snow, Howard, and E. A. Gulledge, Charlotte, N. C., assignors to Southern Friction Materials Company. Woven fabric. 2,423,910; July 15.
- Snow, John E.: *See*—  
Poitras, Herman A., and Snow.  
Poitras, Herman A., Snow, and De Lorenzo.
- Snow-Nabstedt Gear Corporation, The, assignee: *See*—  
Berndtson, John O.
- Snow, Richard R., Lakewood, Ohio, assignor to The American Steel and Wire Company of New Jersey. Soaking pit and operating the same. 2,414,069; Jan. 7.
- Snowwhite Garment Manufacturing Company, assignee: *See*—  
Price, Arthur W.
- Snuggs, John F.: *See*—  
Gunness, Robert C., and Snuggs.
- Snyder, Eric G., assignor to Wyeth Incorporated, Philadelphia, Pa. Porphyrin purification. 2,414,070; Jan. 7.
- Snyder, Eugene, Philadelphia, assignor to American Chemical Paint Company, Ambler, Pa. Refining crude wool grease. 2,417,329; Mar. 11.
- Snyder, Frederick D., Milton, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Reversible electric motor. 2,424,337; July 22.
- Snyder, Frederick D., Milton, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Capacitor closed relay having retentive magnetic circuit. 2,427,750; Sept. 23.
- Snyder, Frederick D., Milton, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Capacitor closed relay having reduced holding current. 2,427,751; Sept. 23.
- Snyder, Harry L., West Los Angeles, Calif. Paper box. 2,414,703; Jan. 21.
- Snyder, Jacob R., assignor to Thompson Products, Inc., Cleveland, Ohio. Self-closing filler cap assembly. 2,414,909; Jan. 28.
- Snyder, Jacob R., assignor to Thompson Products, Inc., Cleveland, Ohio. Quick disconnect coupling. 2,426,471; Aug. 26.
- Snyder, Jacob R., assignor to Thompson Products, Inc., Cleveland, Ohio. Shock absorber. 2,429,140; Oct. 14.
- Snyder, Jacob R., assignor to Thompson Products, Inc., Cleveland, Ohio. Pump valve. 2,433,302; Dec. 23.
- Snyder, Jacob R., and J. F. Norton, assignors to Thompson Products, Inc., Cleveland, Ohio. Seal and gasket assembly. 2,417,400; Mar. 11.
- Snyder, Jacob R., Cleveland, and F. A. Pease, Jr., Chagrin Falls, assignors to Thompson Products, Inc., Cleveland, Ohio. Remote control mechanism. 2,431,836; Dec. 2.
- Snyder, John E., Los Angeles, Calif. Combination clothes rack umbrella. 2,433,793; Dec. 30.
- Snyder, Leland H., assignor, by mesne assignments, to Quality Appliances Inc., Chicago, Ill. Adjustable-pull solenoid. 2,427,630; Sept. 16.
- Snyder, Leland H., assignor, by mesne assignments, to Quality Appliances, Inc., Chicago, Ill. Electric hot plate. 2,430,194; Nov. 4.
- Snyder Oil Tool Corporation, assignee: *See*—  
Snyder, Robert E.
- Snyder, Paul, Baltimore, Md. Garment. 2,417,271; Mar. 11.
- Snyder, Philip S., Cromwell, Ind. Direct fire attachment for mortars and the like. 2,427,027; Sept. 9.
- Snyder, Purdum M., Ben Avon, assignor to H. H. Robertson Company, Pittsburgh, Pa. Coated fibrous material. 2,424,638; July 29.
- Snyder, Raymond M.: *See*—  
Ammon, Charles D., Snyder, and Fitchie.
- Snyder, Richard L., Jr.: *See*—  
Rajchman, Jan A., and Snyder.
- Snyder, Richard L., Jr., Princeton, N. J., assignor to Radio Corporation of America. Electronic computing circuit. 2,425,131; Aug. 5.
- Snyder, Richard L., Jr., and J. A. Rajchman, Princeton, N. J., assignors to Radio Corporation of America. Calculating device. 2,424,289; July 22.
- Snyder, Richard L., Jr., Glassboro, N. J., and J. A. Rajchman, Philadelphia, Pa., assignors to Radio Corporation of America. Electronic computer. 2,431,591; Nov. 25.
- Snyder, Robert E., Pasadena, Calif. assignor to Snyder Oil Tool Corporation. Impact drill. 2,425,012; Aug. 5.
- Snyder, Russel D., assignor to Crane Packing Company, Chicago, Ill. Fluid seal. 2,432,694; Dec. 16.
- Snyder, Russel D., E. J. Coleman, and C. E. Schmitz, Chicago, assignor to Crane Packing Company, Chicago, Ill. Seat for mechanical seals. 2,425,209; Aug. 5.
- Snyder, Samuel J., Washington, D. C. Oscillator circuit. 2,415,049; Jan. 28.
- Sobirai, Joseph J., Hartford, Conn. Bicycle. 2,424,639; July 29.
- Societe a Responsabilite Limitee: Zenith Radio, assignee: *See*—  
Roger-Petit, Jean C.
- Societe Anonyme Andre Citroen, assignee: *See*—  
Levesque du Rostu, Georges.
- Societe Anonyme Teco, assignee: *See*—  
Theunissen, Francois J. M.
- Societe dite: Saint Freres (Societe Anonyme), assignee: *See*—  
Pelce, Henri.
- Societe Francaise De Construction De Bennes Automatiques, assignee: *See*—  
Allard, Pierre J.-M. T.
- Societe Genevoise d'Instruments de Physique, assignee: *See*—  
Turrettini, Fernand.
- Societe Genevoise D'Instruments De Physiques, assignee: *See*—  
Turrettini, Fernand.
- Societe Industrielle De Bonneterie, assignee: *See*—  
Garric, Jean.
- Societe Le Carbone Lorraine, assignee: *See*—  
Parisot, Jean F.
- Societe Meridionale du Caoutchouc Someca, Societe a Responsabilite Limitee, assignee: *See*—  
Saint-Mieux, Charles.
- Societe Rateau (Societe Anonyme), assignee: *See*—  
Sedille, Marcel H. L.
- Societe Salvare, Societe Anonyme, assignee: *See*—  
Prince, Alfred J.
- Society of Chemical Industry in Basle, assignee: *See*—  
Albrecht, Otto.  
Felix, Friedrich, and Riat.  
Felix, Friedrich, and von Capeller.  
Graenacher, Charles, Sallmann, and Albrecht.  
Müller, Willy, and Scheidegger.  
Rupert, Andreas.  
Sutter, Paul, and Kern.  
Straub, Fritz, Brassel, and Pieth.
- Socin, Francis C., St. Charles, assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Piano action. 2,417,666; Mar. 18.
- Socin, Francis C., St. Charles, assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Piano action. 2,419,174; Apr. 15.
- Socke, John E., Pelham Manor, assignor to American Can Company, New York, N. Y. Bag loading machine. 2,418,142; Apr. 1.
- Socke, John E., Pelham Manor, assignor to American Can Company, New York, N. Y. Tear strip type container and reclosure. 2,428,392; Oct. 7.
- Socke, John E., Pelham Manor, assignor to American Can Company, New York, N. Y. End closure for tearing strip cans. 2,428,393; Oct. 7.
- Socke, John E., Pelham Manor, assignor to American Can Company, New York, N. Y. Collar construction for tear strip type of reclosable containers. 2,428,394; Oct. 7.
- Socolofsky, John F.: *See*—  
Berger, Henry G., Crandall, and Socolofsky.
- Socony-Vacuum Oil Company, assignee: *See*—  
Evans, Louis P.  
Farrar, Gerald L.  
Fuller, Everett W., Redman, and Berger.  
Goodloe, Paul M., II, and Noland.  
Lechthaler, Charles H., and Payne.  
O'Kelly, Arlie A., Meadow, and Woodward.  
Payne, John W.  
Reiff, Orland M.  
Simpson, Thomas P.
- Socony-Vacuum Oil Company, Incorporated, assignee: *See*—  
Abrams, Armand J., Baker, Kuhn, and Sharp.  
Berger, Henry G., Crandall, and Socolofsky.  
Berger, Henry G., and Fuller.  
Bergstrom, Eric V.  
Bergstrom, Eric V., and Utterback.  
Brown, Henry T., and Gorin.  
Caldwell, Hamilton P., Jr.  
Carmichael, Emmett S., and Roehner.  
Covington, James D.  
Crandall, George S., and Schlesman.  
Crowley, John A., Jr.  
Denton, William I., Bishop, Nygard, and Noland.  
Fahnestock, Frank C.  
Eastwood, Sylvander C.  
Eastwood, Sylvander C., and Evans.  
Eichner, Edward R.



- Socony-Vacuum Oil Company, Incorporated, assignee: *See*—Continued.
- Evans, Louis P.  
Glassbrook, Clarence I., and Hansford.  
Gorin, Everett.  
Gorin, Manuel H. and E.  
Hadden, Stuart T.  
Hansford, Rowland C.  
Hartough, Howard D., and Sardella.  
Johnson, George C.  
Kirkpatrick, James B., Schlesman, and O'Kelly.  
Koenig, Edgar A.  
Kriebble, Robert H., and Denton.  
Kuhn, Carl S., Jr.  
Lechthaler, Charles H., and Lee.  
Lee, Russell, Noll, and Kalichevsky.  
Loper, George B.  
Marisic, Milton M.  
McClure, Carroll D.  
Meadow, Jacob R.  
Myers, Claude G., Hansford, and Sachanen.  
Noland, Thomas T.  
Noll, Henry D.  
Ohlad, Alex G., and Gorin.  
O'Kelly, Arlie A., Work, and Plucker.  
Otto, Ferdinand P.  
Otto, Ferdinand P., and Meyer.  
Payne, John W.  
Peavy, Claude C., and Happel.  
Penick, Joe E.  
Petry, Theodor A., Lee, Biles, and Betts.  
Pinney, Ernest F.  
Plank, Charles J.  
Ray, Frederick E., Lee, and Meadow.  
Reiff, Orland M.  
Reiff, Orland M., Hartough, and Andress.  
Rochner, Theodore G., and Sudholz.  
Sandberg, Carl R., and Patterson.  
Scafe, Eugene T., and Herman.  
Schmitt, Arthur C.  
Shimek, Edwin J., and Groenendyke.  
Simpson, Thomas P.  
Simpson, Thomas P., Payne, and Crowley.  
Simpson, Thomas P., Payne, and Evans.  
Sinclair, Edward L.  
Sinclair, Edward L., and Hagerbaumer.  
Sudholz, Louis H., and Flemming.  
Utterback, Ernest.
- Soday, Frank J., Baton Rouge, La., assignor to The United Gas Improvement Company. Copolymerization of indenes and piperylene. 2,413,893; Jan. 7.  
Soday, Frank J., Baton Rouge, La., assignor to The United Gas Improvement Company. High-boiling aromatic oil. 2,415,541; Feb. 11.  
Soday, Frank J., Baton Rouge, La., assignor to The United Gas Improvement Company. Coated organic material and making the same. 2,416,232; Feb. 18.  
Soday, Frank J., Swarthmore, Pa., assignor to The United Gas Improvement Company. Electrical insulating oils. 2,423,413; July 1.  
Soday, Frank J., Baton Rouge, La., assignor to The United Gas Improvement Company. Recovering diolefins from hydrocarbon mixtures. 2,423,414; July 1.  
Soday, Frank J., Baton Rouge, La., assignor to The United Gas Improvement Company. Production of an indene phenol. 2,423,415; July 1.  
Soderberg, Carl R., Weston, Mass., assignor to United Aircraft Corporation, East Hartford, Conn. Turbine blade mounting. 2,414,278; Jan. 14.  
Soderberg, Carl R., Weston, Mass., assignor to United Aircraft Corporation, East Hartford, Conn. Turbine construction. 2,417,845; Mar. 25.  
Soderberg, Carl R., Weston, Mass., assignor to United Aircraft Corporation, East Hartford, Conn. Turbine blade locking device. 2,421,855; June 10.  
Soderberg, Gustave J., Babylon, N. Y. Polishing apparatus for floors and similar surfaces. 2,417,620; Mar. 18.  
Soderblom, Carl W.: *See*—  
Haven, Dwight E., and Soderblom.  
Sodowick, Joe, assignee et al.: *See*—  
Warner, Samuel W.
- Sody, Frederick, Enstone, England. Separation of thorium and the rare-earth group from minerals. 2,425,573; Aug. 12.  
Soff, Cyrus G., New York, N. Y. Window drapery construction. 2,430,959; Nov. 18.  
Soffel, William F., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Rotating contactor relay. 2,417,788; Mar. 18.  
Sokol, Herman, Hasbrouck Heights, N. J., assignor to Heyden Chemical Corporation, New York, N. Y. Production of acylated hydroxy-substituted carboxylic acids. 2,423,569; July 8.  
Sokoloff, Paul W.: *See*—  
Ostlund, Evert M., and Sokoloff.  
Sola Electric Co., assignee: *See*—  
Ingwersen, Donald N.
- Solakian, George and Z., Belmont, Mass. Bath mitt. 2,431,433; Nov. 25.  
Solakian, Haig, New Haven, Conn., and C. M. Vincent, Detroit, Mich., assignors to A. F. Holden, New Haven, Conn. Furnace for heat treatment of metal. 2,421,224; May 27.
- Solakian, Zabel, assignee: *See*—  
Solakian, George and Z.
- Solanas, Ramón B., Santa Coloma de Cervello, Spain. Drawing mechanism for textile slivers. 2,422,444; June 17.
- Solar Aircraft Company, assignee: *See*—  
Arnhyrn, Albert A.  
Harvey, George W.  
Levinson, Benjamin L.  
Ross, Elmer R.  
Sprenger, Harold A., and Greene.
- Solar Corporation, assignee: *See*—  
Fields, George C.
- Solar-Sturges Mfg. Co., assignee: *See*—  
Bethke, Leo.
- Solem, Louis, Minneapolis, Minn. Easel. 2,418,433; Apr. 1.
- Soling, Samuel P., assignor to York Corporation, York, Pa. Refrigeration system including evaporator defrosting means. 2,430,960; Nov. 18.
- Solins, Elmore, New York, N. Y. Rug kit and making rugs therefrom. 2,429,281; Oct. 21.
- Solis, Fausto A., Habana, assignor to J. S. Sanchez and A. S. Cepero, Ranchuelo, Cuba. Liquid pumping apparatus. 2,429,898; Oct. 28.
- Solomon, Charles, New York, N. Y. Garment sleeve. 2,414,429; Jan. 14.
- Solomon, Joseph H., Columbia, Pa. Can opener. 2,421,296; May 27.
- Solomon, Joseph H., Columbia, Pa. Clothes pounder. 2,421,297; May 27.
- Solomon, Joseph W., Bronx, N. Y., assignor to The Verplex Company, Essex, Conn. Lamp shade mounting member. 2,420,208; May 6.
- Solomon, Myer, deceased, by N. W. Solomon, Princeton, N. J., assignor to Radio Corporation of America. Fibrous sheet material for the electrolytic formation of an azo dyestuff thereon. 2,419,296; Apr. 22.
- Solomon, Myer, deceased, Westmont, by N. W. Solomon, Princeton, N. J., administratrix, assignor to Radio Corporation of America. Fibrous sheet material for the electrolytic formation of azo dyes thereon. 2,421,367; May 27.
- Solomon, Myer, deceased, Westmont, by N. W. Solomon, administratrix, Princeton, N. J., assignor to Radio Corporation of America. Fibrous sheet material for producing dyes thereon by electrolytic oxidation. 2,430,254; Nov. 4.
- Solomon, Myer, deceased, Westmont, by N. W. Solomon, administratrix, Princeton, N. J., assignor to Radio Corporation of America. Fibrous sheet material for the electrolytic formation of azo dye image records thereon. 2,433,632; Dec. 30.
- Solomon, Nellie W.: *See*—  
Solomon, Myer.
- Solomon, Nellie W., administratrix: *See*—  
Solomon, Myer.
- Solvay Process Company, The, assignee: *See*—  
Beckham, Leland J.  
Crittenden, Eugene D.  
Datin, Richard C.  
Horst, Roy A., and Port.  
Porter, Frank.  
Rogers, Stuart M.  
Rohner, Leonard V., and Wood.  
Vingee, Raymond A.
- Somers, Frank J.: *See*—  
Clark, Robert W., and Somers.
- Somers, Frank J., Jackson Heights, N. Y., assignor to Radio Corporation of America. Synchronizing in color television. 2,428,946; Oct. 14.
- Somers, Frank J., Jackson Heights, N. Y., assignor to Radio Corporation of America. Color television system. 2,429,849; Oct. 28.
- Somers, Richard M.: *See*—  
Dann, Charles W., and Somers.
- Somers, Richard M., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Telegraphone. 2,430,538; Nov. 11.
- Somers, Richard M., West Orange, and R. C. Van Camp, Madison, assignors to Thomas A. Edison, Incorporated, West Orange, N. J. Magazine type magnetic recorder and reproducer. 2,422,143; June 10.
- Somerset, Henry B., Burnie, Tasmania, Australia. Electrolytic treatment of alkaline process cooking liquors. 2,416,413; Feb. 25.
- Somerville Limited, assignee: *See*—  
Hulbert, Edwin F.
- Somerville, William E., Coal City, Ill. Rope machine. 2,416,126; Feb. 18.
- Somes, Howard E., Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa. Switching device. 2,420,449; May 13.
- Somes, Howard E., Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa. Heat-treating apparatus. 2,421,525; June 3.
- Somes, Howard E., Jr., and O. Marquardt, Detroit, Mich., assignors, by mesne assignments, to The Budd Company, Philadelphia, Pa. Quench head. 2,415,856; Feb. 18.
- Sommerfeld, Pauline M.: *See*—  
Wilson, Philip J., Jr., Wells, and Sommerfeld.



- Sondern, Clarence W., Mendham, and R. H. Herbine, Montville, assignors to White Laboratories, Incorporated, Newark, N. J. Aluminum salts of bile acids. 2,429,899; Oct. 28.
- Sonne, Frederick T., Golf, assignor to Chicago Aerial Survey Company, Chicago, Ill. Stereoscopic camera. 2,433,534; Dec. 30.
- Sonneborn, L., Sons, Inc., assignee: *See*—Althouse, Harlan E.
- Sonneborn Sons, L., Inc., assignee: *See*—Murphy, Thomas G., and Faust.
- Sonnemann, William K., Roselle Park, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Impedance type distance relay. 2,425,759; Aug. 19.
- Sonnemann, William K., Roselle Park, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Distance-type relay with current-compensated voltage restraint. 2,426,062; Aug. 19.
- Sonnen, Fred, Newark, N. J. Harmonica. 2,420,450; May 13.
- Sonnenberg, Rudolph, Belvidere, and I. L. Young, Chicago, Ill. Tube forming machine. 2,426,714; Sept. 2.
- Sonnenschein, Louis C., Milwaukee, Wis. Bomb. 2,428,744; Oct. 7.
- Sonner, Edwin W., Jr., Queens Village, N. Y. Foldable camping chair. 2,432,945; Dec. 16.
- Sonntag, Alfred, Greenwich, Conn., assignor, by mesne assignments, to The Baldwin Locomotive Works. Rotating beam fatigue testing machine. 2,423,349; July 1.
- Sonntag, Alfred, Greenwich, Conn., assignor, by mesne assignments, to The Baldwin Locomotive Works. Materials specimen marking device. 2,424,338; July 22.
- Sonoco Products Company, assignee: *See*—Coker, James L., III.  
Dunlap, Charles K.
- Sonotone Corporation, assignee: *See*—Shapiro, Harry B.
- Sontag, Harcourt C., Arlington, Va. Breathing apparatus. 2,424,586; July 29.
- Sonthimer, Carl G., Stamford, Conn., assignor to Radio Corporation of America. Frequency modulation detector. 2,420,268; May 6.
- Sonthimer, Carl G., Haddonfield, N. J., assignor to Radio Corporation of America. Electrical wave analyzer. 2,432,214; Dec. 9.
- Sonthimer, Carl G., Haddonfield, and N. I. Korman, Camden, N. J., assignors to Radio Corporation of America. Nonfrequency-selective reflectometer. 2,423,416; July 1.
- Sonthimer, Carl G., Haddonfield, and N. I. Korman, Camden, N. J., assignors to Radio Corporation of America. Reflectometer for waveguide transmission lines. 2,423,526; July 8.
- Sontz, Arthur, Chicago, Ill. Furnace door. 2,426,568; Aug. 26.
- Soreng, Edgar M., Skokie, assignor to Soreng Manufacturing Corporation, Chicago, Ill. Coil construction. 2,425,443; Aug. 12.
- Soreng Manufacturing Corporation, assignee: *See*—Soreng, Edgar M.  
Whitted, John B., and Fisher.
- Sorensen, Alfred O., Bakersfield, Calif. Universal mirror for motor vehicles. 2,413,894; Jan. 7.
- Sorensen, Andrew J., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Communication and control system for airplanes. 2,427,979; Sept. 23.
- Sorensen, Christian A., assignee: *See*—Monner, Ray J.
- Sorensen, Niels A., deceased, Cleveland Heights; P. N. Sorensen, administrator, assignor, by mesne assignments, to P. N. Sorensen and R. L. Garber, Cleveland, Ohio. Extracting broken drills and the like. 2,429,967; Oct. 28.
- Sorensen, Phillips N., administrator, assignee: *See*—Sorensen, Niels A.
- Sorensen, Walter, Moline, Ill. Machine for testing belt links. 2,428,395; Oct. 7.
- Sorensen, Walter, Moline, Ill. Feed strip locator. 2,432,103; Dec. 9.
- Sorenson, Harry: *See*—Klema, Walter E., and Sorenson.
- Sorenson, Perc C., assignor to V. Sorenson, Wauwatosa, Wis. Fuel saver device. 2,430,308; Nov. 4.
- Sorenson, Vandilla, assignee: *See*—Sorenson, Perc C.
- Sorg, Earl H., Hyde, assignor to The Glenn L. Martin Company, Middle River, Md. Stabilizer and plasticizer for vinyl resins. 2,414,399; Jan. 14.
- Sorg, Harold E.: *See*—Drieschman, Donald F., Shepherd, Rabinawitz, Newhall, and Sorg.
- Sorge, Agnes C., Manitowoc, Wis. Protector shield for neckline, shoulders, and hair. 2,420,916; May 20.
- Sosaya, Frank F., Santa Fe, N. Mex. Test cap. 2,431,778; Dec. 2.
- Souden, Alexander G.: *See*—Ellis, William C., and Souden.
- Souders, Mott, Jr.: *See*—Johnson, Ava J., Souders, and Marsland.  
Samaniego, José A., and Souders.
- Soule, Edward C., Niagara Falls, and H. L. Robson, Lewiston, assignors to The Mathieson Alkali Works, Inc., New York, N. Y. Producing calcium hypochlorite. 2,429,531; Oct. 21.
- Soulen, Peter J., Wauwatosa, assignor to Pal-O-Pak Insulation Company, Inc., Hartland, Wis. Proportioning system of ingredient feed to disintegrating mill for insulation production. 2,428,100; Sept. 30.
- Soundscribe Corporation, The, assignee: *See*—Balmer, Donald F.
- Sours, William H.: *See*—Lee, Harley, and Sours.
- Soussloff, Dimitri G.: *See*—Piperoux, Rene P., and Soussloff.
- Southam, Earl A.: *See*—Crossman, Fred, and Southam.  
Crossman, Fred, Southam, and Ruhl.
- South Bend Bait Company, assignee: *See*—Beyer, Raymond H.
- Southern Cotton Oil Company, The, assignee: *See*—Royce, Harvey D.
- Southern Friction Materials Company, assignee: *See*—Snow, Howard.  
Snow, Howard, and Gullledge.
- Southern Wood Preserving Company, assignee: *See*—Harvey, Jacquelin E., Jr., White, and Vaughan.
- Southland, Benjamin H.: *See*—Witte, Louis J.
- Southwest Automotive Company, assignee: *See*—Fox, Carl H.
- Southwick, Charles A., Jr., assignor, by mesne assignments, to Shellmar Products Corporation, Mount Vernon, Ohio. Container. 2,428,396; Oct. 7.
- Southwick, Laurence F., Meriden, and R. R. Holt, Manchester, Conn. Tap grinding fixture. 2,420,572; May 13.
- Souza, Manuel O., Newman, Calif. Hay unloading apparatus. 2,423,732; July 8.
- Sowa, Frank J., Cranford, N. J. Reaction product of phenyl mercury salts with hydroxy alkyl amino compounds and their preparation. 2,423,121; July 1.
- Sowa, Frank J., Cranford, N. J. Germicidal product and producing same. 2,423,261; July 1.
- Sowa, Frank J., Cranford, N. J. Compounds having the formula



2,423,262; July 1.

Sowa, Frank J., Cranford, N. J., assignor to American Machine & Foundry Company. Denicotinizing tobacco. 2,429,567; Oct. 21.

Sowden, Alfred, Arkansas City, Kans. Weighing machine. 2,430,622; Nov. 11.

Sowerwine, Charles E., Ames, Iowa. Weight motor and power transmission apparatus. 2,422,753; June 24.

Spackman, Thomas F., assignor to Stewart-Warner Corporation, Chicago, Ill. Convertible vehicle. 2,414,214; Jan. 14.

Spader, Ewald G.: *See*—Quinn, Joseph L., and Spader.

Spain, Roy C., Attica, N. Y., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Lock. 2,431,894; Dec. 2.

Spalding, John E., Nitro, and D. B. Wicker, Dunbar, W. Va., assignors to American Viscose Corporation, Wilmington, Del. Staple fiber opener. 2,418,126; Apr. 1.

Spaller, Elmer T., Cleveland Heights, assignor to The Euclid Electric & Mfg. Co., Euclid, Ohio. Centrifugal switch. 2,418,373; Apr. 1.

Spanier, Benjamin, New York, N. Y. Wax injector. 2,422,990; June 24.

Spanner, Edward F., London, England. Hygrometric means. 2,427,931; Sept. 23.

Sparkes, James M., Peabody, Mass. Calendar timepiece. 2,431,968; Dec. 2.

Sparklets Limited, assignee: *See*—Brewer, William.

Sparks, Chiles E.: *See*—

Sparks, Helen R.: *See*—Czajcinski, Agnes R., and Sparks.

Sparks Industries, Inc., assignee: *See*—Booth, Earl C.

Rossander, Swanle S., Sparks, and Libby.

Smith, Francis H., and Sparks.

Sparks, William J., Elizabeth, and H. B. Kellog, Union City, N. J., assignors, by mesne assignments, to Jasco, Incorporated. Sulfurized, milled, and cured polymer. 2,417,093; Mar. 11.

Sparks, William J., Elizabeth, and R. M. Thomas, Union, N. J., assignors to Standard Oil Development Company. Interpolymer of isoolefine and polyolefine. 2,418,912; Apr. 15.

Sparks, William J., Cranford, and D. W. Young, Roselle, N. J., assignors to Standard Oil Development Company. Lubricant composition. 2,424,588; July 22.

Sparks, William J., and J. D. Calfee, Cranford, N. J., assignor to Standard Oil Development Company. Producing synthetic rubberlike polymers. 2,433,070; Dec. 23.



- Sparrow, Hubert T., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Pressure control apparatus. 2,433,326; Dec. 23.
- Sparrow, Hubert T., and B. Cyr, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Circuit controlling device. 2,420,105; May 6.
- Sparrow, Marvin W.: *See—*  
Little, Paul C.
- Sparrow, Maxwell E., assignee: *See—*  
Schulman, Louis.
- Spaulding, Graydon C., assignor to Industrial Management Corporation, Los Angeles, Calif. Apparatus for filling containers with weighed quantity of gaseous fluid. 2,425,844; Aug. 19.
- Spaulding-Moss Company, assignee: *See—*  
Reynolds, Alger P.
- Speaker, John W., Whitefish Bay, Wis. Pocket type can opener. Re. 22,934; Nov. 11.
- Speaker, John W., Milwaukee, Wis. Collapsible grill. 2,414,490; Jan. 21.
- Speaker, John W., Milwaukee, Wis. Manufacturing hexamethylenetetramine fuel pellet. 2,432,347; Dec. 9.
- Speakman Company, assignee: *See—*  
Fraser, James.
- Spears, Frank G. W.: *See—*  
Lumb, Charles F., and Spears.
- Speas, Clarence J., Burlington, Vt. Fracture appliance. 2,432,695; Dec. 16.
- Special Engineering Service, Incorporated, assignee: *See—*  
Gordinier, Ralph E.
- Special Equipment Company, assignee: *See—*  
Ewald, Mark.  
Ewald, Raymond L., and Skog.
- Specialoid Limited, assignee: *See—*  
Graham, Eric B.
- Specialties Development Corporation, assignee: *See—*  
Grant, Harry C., Jr.  
Mapes, Daniel.  
Mapes, Daniel, and Du Pont.
- Specialty Equipment and Machinery Corp., assignee: *See—*  
Riboud, Jacques M. J.
- Speck, Kurt: *See—*  
O'Larte, Rudolph, and Speck.
- Spector, Morris, Jersey City, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Return trace blanking and mixing. 2,426,419; Aug. 26.
- Spectrum Products Company, Inc., assignee: *See—*  
Neumann, Henry T.
- Speed Corporation, assignee: *See—*  
Speed, James H.
- Speed, James H., Portland, Oreg., assignor to Speed Corporation. Handsaw filing guide. 2,421,657; June 3.
- Speed-Products Co., Inc., assignee: *See—*  
Crosby, Stephen A.
- Speed, William C., assignor to Reeves-Ely Laboratories, Inc., New York, N. Y. Apparatus for cutting quartz oscillator blanks. 2,413,795; Jan. 7.
- Speed, William C., assignor to Reeves-Ely Laboratories, Inc., New York, N. Y. Quartz crystal holder. 2,431,282; Nov. 18.
- Speedmaster, Limited, assignee: *See—*  
Graves, Jay, and Butler.
- Speidel Corporation, assignee: *See—*  
Augenstein, Karl C., and Rieth.
- Speiden, Edgar F.: *See—*  
Dake, George E., and Speiden.
- Speier, Frances, assignee, et al.: *See—*  
Imbriani, Louis.
- Spenard, Joseph L., Duluth, Minn. Fish lure. 2,420,451; May 13.
- Spence Engineering Company, Inc., assignee: *See—*  
Spence, Paulsen.
- Spence, Harry R., and H. W. Hooker, Lewiston, assignors to Hooker Electrochemical Company, Niagara Falls, N. Y. Removing oxide from the surface of metals. Re. 22,887; June 3.
- Spence, John: *See—*  
Carroll, Burt H., Brooker, and Spence.
- Spence, John A., and E. F. Degering, West LaFayette, assignors to Purdue Research Foundation, LaFayette, Ind. Preparation of c-acetylated compounds. 2,417,381; Mar. 11.
- Spence, Le Roy U.: *See—*  
Butterbaugh, Darrel J., and Spence.
- Spence, Le Roy U., Elkins Park, and D. J. Butterbaugh, assignors to Rohm & Haas Company, Philadelphia, Pa. Catalytic production of butadiene and catalyst therefor. 2,423,951; July 15.
- Spence, Oswald, assignor to Masonite Corporation, Laurel, Miss. Recovery of lower aliphatic acids from dilute aqueous solution. 2,422,504; June 17.
- Spence, Paulsen, Hot Springs, Ark., assignor to Spence Engineering Company, Inc., Walden, N. Y. Valve. 2,425,284; Aug. 5.
- Spence, Paulsen, East Orange, N. J., assignor to Spence Engineering Company, Inc., Walden, N. Y. Valve. 2,431,283; Nov. 18.
- Spenceley, Frederick: *See—*  
Stinson, William E., and Spenceley.
- Spencer, Arthur: *See—*  
Ingoldby, Maurice K., Abbink-Spink, and Spencer.
- Spencer, George A., North Platte, Nebr. Shovel. 2,416,414; Feb. 25.
- Spencer, H. Dorsey, assignee, et al.: *See—*  
Ramsay, Marcus.  
Young, Walker F.
- Spencer, Herman J., Pittsburgh, Pa. Stapling device. 2,427,028; Sept. 9.
- Spencer, Hugh M., Buffalo, N. Y., assignor to Stanley D. Libbey, Washington, D. C. Producing an intumescent composition of matter. 2,430,483; Nov. 11.
- Spencer, James A.: *See—*  
Kahn, Alfred, Phelps, and Spencer.
- Spencer, James A., Teaneck, N. J., assignor to Radio Corporation of America. Printer storage system. 2,413,849; Jan. 7.
- Spencer, James A., Teaneck, N. J., assignor to Radio Corporation of America. Tape printer. 2,431,651; Nov. 25.
- Spencer, Kenneth A., Kansas City, and D. W. Machin, Lawrence, assignors to The Pittsburgh and Midway Coal Mining Company, Pittsburgh, Kans. Preparing coal for use in colloidal fuels. 2,430,085; Nov. 5.
- Spencer, Lloyd, assignee: *See—*  
Mettler, Hal C.
- Spencer, Lloyd, Los Angeles, Calif. Venetian blind. 2,415,222; Feb. 4.
- Spencer, Lloyd, assignor to Lane-Wells Company, Los Angeles, Calif. Liner hanger. 2,427,330; Sept. 9.
- Spencer, Milton R., Woodstock, Ill. Spring-driven toy. 2,418,201; Apr. 1.
- Spencer, Percy L., West Newton, Mass., assignor, by mesne assignments, to Raytheon Manufacturing Company. Stem for electrical space discharge devices. Re. 22,851; Mar. 11.
- Spencer, Percy L., West Newton, assignor to Raytheon Manufacturing Company, Newton, Mass. Magnetron anode structure. 2,417,789; Mar. 18.
- Spencer, Percy L., West Newton, assignor to Raytheon Manufacturing Company, Newton, Mass. Electron discharge device of the plural cavity resonator type. 2,423,161; July 1.
- Spencer, Percy L., West Newton, assignor to Raytheon Manufacturing Company, Newton, Mass. Electronic discharge device. 2,430,309; Nov. 4.
- Spencer, Percy L., West Newton, assignor to Raytheon Manufacturing Company, Newton, Mass. High efficiency magnetron. 2,432,827; Dec. 16.
- Spender, Donald L., Waterbury, assignor to Scoville Manufacturing Company, New Haven, Conn. Cooling unit. 2,419,233; Apr. 22.
- Spender, Sidney I., and R. L. E. Reuter, assignors to Scovill Manufacturing Company, Waterbury, Conn. Atomizer. 2,427,932; Sept. 23.
- Spengler, Walter J., Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Ignition system. 2,414,000; Jan. 7.
- Spengler, Lester B., Concord, Calif. Speed indicator. 2,430,690; Nov. 11.
- Sperati, Carleton A., North Arlington, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydrolyzed vinyl ester interpolymers. 2,421,971; June 10.
- Sperry, Albert F., Chicago, Ill. Manometer ring balance. 2,428,436; Oct. 7.
- Sperry Gyroscope Company, assignee: *See—*  
Feenberg, Eugene.  
Nisbet, Robert H., and Harding.
- Sperry Gyroscope Company, Inc., assignee: *See—*  
Abraham, Wayne G.  
Andrews, Gilman B.  
Ayres, Waldemar A.  
Baker, Willard L., Campbell, and Good.  
Barrow, Wilmer L.  
Barrow, Wilmer L., and Hall.  
Bentley, George P., and Frische.  
Bonell, Ralph K.  
Braddon, Frederick D.  
Braddon, Frederick D., Delanty, and Esval.  
Brannin, Richard S.  
Campbell, David J., Harris, and Hauser.  
Carter, Leslie F.  
Carter, Leslie F., and West.  
Chafee, Earl W.  
Curry, Robert S.  
Curry, Robert S., Jr., and Esval.  
Curry, Robert S., Jr., and Fragola.  
Dawson, Edward.  
Depp, Marlin C., and Fragola.  
Folland, Donald F., Schock and Jenks.  
Fragola, Caesar F.  
Frische, Carl A., and Hanson.  
Frische, Carl A., Halpert, and Wilkerson.  
Garbarini, Robert F., and Wing.  
Ginzton, Edward L.  
Halpert, Percy, and Frische.  
Halpert, Percy, Frische, Bird, and Esval.  
Hansen, William W.  
Hansen, William W., and Relson.  
Harcum, William M., and Halpert.  
Harris, Herbert, Jr.  
Harrison, Arthur E., and Varian.  
Haskins, Robert, Jr.  
Hesse, Henry R.  
Hull, Harvard L., Hartman, and Goertz.  
Hunter, Paul B.  
Isbister, Eric J.  
Jenks, Frederic A.



Sperry Gyroscope Company, Inc., assignee: See—Continued.

Johnson, Montgomery H., Ratliff, and Hansen.  
Johnstone, Charles W.  
Kellogg, Spencer 2nd, Hanson, and Kenyon.  
Kenyon, David E.  
Knowles, Richard C., White, and Harris.  
Langstroth, Hall.  
Lilienthal, James R.  
McCoy, Rawley D.  
Mieher, Walter W., and Mallett.  
Moseley, Francis L.  
Moseley, Francis L., Isbister, and Steinhauer.  
Mozley, Robert F., and Pensyl.  
Newton, John C.  
Nisbet, Robert H.  
Proskauer, Richard, and Young.  
Roe, Robert B., and Gray.  
Salisbury, Frederick L.  
Shepherd, James E.  
Snow, Donald L., Ginzton, and Hamilton.  
Stearns, Horace M.  
Stotz, Carl C.  
Thompson, Herbert H.  
Varian, Russell H., and Relson.  
Varian, Sigurd F.  
Varian, Sigurd F., and Hamilton.  
Webber, Hugh E.  
White, Gifford E.  
White, Gifford E., and Knowles.  
Wilson, Jack C.  
Woodyard, John R.  
Zaleski, John F.  
Zenor, Hughes M.  
Sperry, Lyman B., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Prewelding cleaning of aluminum. 2,430,435; Nov. 4.  
Sperry Products, Inc., assignee: See—  
Carlin, Benson.  
Hebel, Carl G.  
Wittnebert, Fred R.  
Sperry, Ralph W. E., De Kalb, assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Piano action. 2,418,733; Apr. 8.  
Sperry-Sun Well Surveying Company, assignee: See—  
Hering, Donald.  
Kothny, Gott Dank L.  
Nichols, Charles R., and Williston.  
Smith, George A.  
Spessard, Clayton I., Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation. Dispersing copolymer of vinyl chloride and vinyl acetate in a ketone and hydrocarbon dispersant. 2,427,513; Sept. 16.  
Spicacci, Attilio R., Bristol, Conn., assignor to General Motors Corporation, Detroit, Mich. Roller bearing. 2,418,322; Apr. 1.  
Spicer Manufacturing Corporation, assignee: See—  
Lewis, Robert P.  
Spicer, William E., and J. A. Pierce, Baton Rouge, La., assignors to Standard Oil Development Company. Conversion of hydrocarbon oils. 2,431,206; Nov. 18.  
Spiegel, Jacob, Philadelphia, Pa. Landing stabilizer for aircraft. 2,416,961; Mar. 4.  
Spiegelberg, Hans, Basel, Switzerland, assignor to Hoffmann-La Roche, Inc., Nutley, N. J. 1-d-ribitylamino-3,4-xytol and manufacture of same. 2,429,244; Oct. 21.  
Spiller, William R., and R. J. Niederhauser, Dayton, Ohio, assignors, by mesne assignments, to Acme Steel Company, Chicago, Ill. Optical device for establishing a working position. 2,424,373; July 22.  
Spiller, William R., and R. J. Niederhauser, Dayton, Ohio., assignors, by mesne assignments, to Acme Steel Company, Chicago, Ill. Stitching machine. 2,424,717; July 29.  
Spillman, Gordon C.: See—  
Merwin, Harry H., and Spillman.  
Spina, Anthony, Brooklyn, N. Y. Crystal grinding device. 2,419,739; Apr. 29.  
Spina, Joseph: See—  
Kurtz, Jacob, Waldie, and Spina.  
Spinasse, Arthur E., Mount Vernon, Ohio. Heat-treating glass or like materials. 2,417,094; Mar. 11.  
Spini, Giacomo, Saint Moritz, Switzerland. Sport shoe. 2,433,303; Dec. 23.  
Spinks, Luff, Detroit, Mich. Disposal apparatus. 2,414,774; Jan. 21.  
Spira, Jacob J., assignor of two-thirds to S. O. and E. I. Siegal, Cleveland, Ohio. Vehicle wheel. 2,417,095; Mar. 11.  
Spira, Jacob J., assignor of two-thirds to S. O. and E. I. Siegal, Cleveland, Ohio. Vehicle wheel. 2,417,382; Mar. 11.  
Spira, Josef H., New York, N. Y. Gem grinding device. 2,420,502; Apr. 13.  
Spires, James W., Toluca, Ill. Garment hanger. 2,427,236; Sept. 9.  
Spiro, Benjamin E., Philadelphia, Pa., assignor to General Electric Company. Manufacturing electrical contacts. 2,419,469; Apr. 22.  
Spitzer, Lyman, Jr., New Haven, Conn. Flexible, variable-diameter propeller. 2,425,353; Aug. 12.  
Spivak, David, New York, N. Y. Window fastener. 2,416,127; Feb. 18.

Splaine, Edward M.: See—

Bernheim, Daniel P., and Splaine.

Splaine, Edward M., assignor to American Optical Company, Southbridge, Mass. Goggle. 2,420,106; May 6.  
Splawn, Virgil B., Burlington, N. C. Tight-grip temple roll. 2,428,101; Sept. 30.  
Spohrer, Gregory J., East Orange, N. J. Golf club carrier. 2,419,175; Apr. 15.  
Spokes, Ray E., Ann Arbor, and E. C. Keller, Detroit, Mich., assignors to American Brake Shoe Company. Friction element. 2,428,298; Sept. 30.  
Spokes, Ray E., Ann Arbor, and E. C. Keller, Detroit, Mich., assignors to American Brake Shoe Company, Wilmington, Del. Friction elements bonded with a reaction product of polymerized linseed oil, sulfur, and phenolaldehyde resin mixed with a butadiene-acrylonitrile copolymer. 2,428,299; Sept. 30.  
Spooner, Henry W., Short Hills, assignor to I. Rossi, West Orange, N. J. Apparatus for casting metals continuously. 2,424,640; July 29.  
Spooner, John M., Manheim Township, Lancaster County, Pa., assignor to Radio Corporation of America. Electron discharge device of the cavity resonator type. 2,421,912; June 10.  
Spoor, Theodorus A., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn. Tuning device comprising at least two tuning circuits having an unequal frequency range. 2,427,331; Sept. 9.  
Sport Products, Inc., assignee: See—  
Goldsmith, Hugo.  
Hilton, Albert.  
Sporting Specialties Company, assignee: See—  
Ballinger, Karl.  
Spotnails, Inc., assignee: See—  
Hamilton, Thomas W., and Anstett.  
Spotts, Edward O., Jr., assignee: See—  
Golightly, William J., and Gardina.  
Spotts, Harry F. and M. J., Anaheim, Calif. Spice wheel. 2,431,837; Dec. 2.  
Spotts, Marian J.: See—  
Spotts, Harry F. and M. J.  
Spottswood Specialty Co., Inc., assignee: See—  
Mull, Arthur B.  
Sprague, Basil S.: See—  
Trueger, Edward, and Sprague.  
Sprague, Earl E., assignor to R. J. Scheffler, Grand Rapids, Mich. Ball-bearing roller. 2,415,611; Feb. 11.  
Sprague Electric Company, assignee: See—  
Dorst, Stanley O.  
Robinson, Preston, and Dorst.  
Sprague, Robert M., Hicksville, N. Y., assignor to Press Wireless, Inc., Chicago, Ill. Signal peak limiter. 2,423,263; July 1.  
Sprague, Robert M., Great Neck, N. Y., assignor to Press Wireless, Inc., Chicago, Ill. Frequency modulation. 2,423,952; July 15.  
Sprague Specialties Company, assignee: See—  
Brooks, Lester A., and Markarian.  
Sprake, Tyler W., assignor to Webster-Brinkley Co., Seattle, Wash. Marine-vessel steering apparatus. 2,426,374; Aug. 26.  
Spraragen, Louis, assignor to Automatic Locking Devices, Incorporated, Bridgeport, Conn. Antiglare shield for vehicle. 2,414,340; Jan. 14.  
Spraragen, Louis, assignor to Automatic Locking Devices, Incorporated, Bridgeport, Conn. Lever operated control device. 2,414,341; Jan. 14.  
Spraragen, Louis, assignor to Automatic Locking Devices, Incorporated, Bridgeport, Conn. Shaft operator and lock. 2,429,900; Oct. 28.  
Spraragen, Louis, assignor to Automatic Locking Devices, Incorporated, Bridgeport, Conn. Instrument control adapter. 2,429,901; Oct. 28.  
Sprayer Corporation of America, assignee: See—  
Jason, John P.  
Sprayo-Flake Company, assignee: See—  
Lampe, Arthur J.  
Spray-Omatic Products Company, assignee: See—  
Hake, Elmer C.  
Sprenger, Harold A., and J. R. Greene, assignors to Solar Aircraft Company, San Diego, Calif. Flexible exhaust conduit assembly. 2,420,153; May 6.  
Sprigman, Arthur, Flushing, N. Y., assignor, by mesne assignments, to Farnsworth Research Corporation. Dial lock. 2,433,794; Dec. 30.  
Spring-Air Company, assignee: See—  
Pabst, Edwin L.  
Springer, Samuel, assignor to Associated Military Stores, Chicago, Ill. Cap stay. 2,428,639; Oct. 7.  
Springzett, Thurston R., Grosse Pointe Park, assignor to Parke, Davis & Company, Detroit, Mich. Enteric coating. 2,433,244; Dec. 23.  
Springfield Photo Mount Co., assignee: See—  
Jolly, Oscar W.  
Sprinkle, Charles R., Stratford, assignor to United Aircraft Corporation, East Hartford, Conn. Portable pneumatic edge crimping tool for sheet metal. 2,414,178; Jan. 14.  
Sproul, Philip T., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cathode ray magnetic focusing device. 2,418,487; Apr. 8.



- Sproule, William K., and G. A. Harcourt, Copper Cliff, Ontario, Canada, assignors to The International Nickel Company, Inc., New York, N. Y. Concentrating platinum group metals and gold. 2,425,760; Aug. 19.
- Sproule, William K., and G. A. Harcourt, Copper Cliff, Ontario, Canada, assignors to The International Nickel Company, Inc., New York, N. Y. Separation of copper and nickel sulfides. 2,419,973; May 6.
- Sproule, William K., G. A. Harcourt, and E. H. Rose, Copper Cliff, Ontario, Canada, assignors to The International Nickel Company, Inc., New York, N. Y. Froth flotation of a nickel-copper sulfide matte. 2,432,456; Dec. 9.
- Sprouse, Verner E., Columbus, Ind. Rotary engine. 2,413,796; Jan. 7.
- Sprules, Francis J., Arlington, and R. Griffith, Fair Haven, assignors to Nopco Chemical Company, Harrison, N. J. Nitric acid oxidation of sulfated fatty materials. 2,426,954; Sept. 2.
- Sprung, Joseph A.: *See*—  
Schmidt, Willy A., and Sprung.  
Smith, Lee I., and Sprung.
- Sprunger, Ivan F., Seymour, Ind. Mechanical device for locking together the matching surfaces of prefabricated panels. 2,430,961; Nov. 18.
- Spurlino, Pascal, and K. Rauch, assignors to The National Cash Register Company, Dayton, Ohio. Sorting device. 2,416,598; Feb. 25.
- Spurr, George C., Jr.: *See*—  
Basta, Silveo A., Basta, and Spurr.
- Square D Company, assignee: *See*—  
Bazley, Ralph L.  
Bierenfeld, Josef.  
Jackson, John G., and Mueller.  
Mekelburg, Earl F.  
Van Valkenburg, Hermon L.  
Van Valkenburg, Hermon L., and Schaefer.
- Squibb, E. R., & Sons, assignee: *See*—  
Bunney William E., and Nigg.  
Christiansen, Walter G., and Harris.  
Koerber, Walter L.  
Lott, William A.  
Lott, William A., Losee, and O'Keeffe.  
Nigg, Clara.
- Squires, Frederic B., Tenafly, N. J. Holder for etching electrodes. 2,422,265; June 17.
- Staab, George J., Springfield, N. J. Salt shaker. 2,417,273; Mar. 11.
- Staab, Peter J., Stuttgart, Ark. Boning hams. 2,419,424; Apr. 22.
- Staaf, Werner I., Rennerdale, Pa. Adjustable headband for industrial headgear. 2,419,661; Apr. 29.
- Stacey, Carmen: *See*—  
Hedley, Nicholas B., and Stacey.
- Stackpole, Gerald B.: *See*—  
Jones, Albert S., and Stackpole.
- Stacy, Thomas F., assignor to The French Oil Mill Machinery Company, Piqua, Ohio. Method of and apparatus for injection molding. 2,418,856; Apr. 15.
- Stacy, Thomas F., assignor to The French Oil Mill Machinery Company, Piqua, Ohio. Control system for hydraulic motors. 2,419,235; Apr. 22.
- Stacy, Thomas F., assignor to The French Oil Mill Machinery Company, Piqua, Ohio. Injection molding. 2,426,651; Sept. 2.
- Stacy, Thomas F., assignor to The French Oil Mill Machinery Company, Piqua, Ohio. Injection molding device. 2,431,349; Nov. 25.
- Stacy, Thomas F., Piqua, Ohio, and M. D. Farmer, East Aurora, N. Y., assignors to The French Oil Mill Machinery Company, Piqua, Ohio. Molding resins. 2,430,033; Nov. 4.
- Stadelhofer, Fred F., Berkeley, Calif. Concrete wall form. 2,426,796; Sept. 2.
- Stadler, Frank J., New York, N. Y. Dental X-ray film identifier. 2,426,286; Aug. 26.
- Stadum, Clarence B., Edgewood, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electronic control circuits. 2,428,592; Oct. 7.
- Stadum, Clarence B., Edgewood, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Pulsation timing system. 2,431,284; Nov. 18.
- Stager, Hans, assignor to the Swiss society: Gesellschaft zur Förderung der Forschung auf dem Gebiete der technischen Physik an der Eidg. Technischen Hochschule G. T. P., Zurich, Switzerland. Binder for mold compositions. 2,433,168; Dec. 23.
- Staff, Charles E., Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Extractants and concentrating organic acids. 2,430,086; Nov. 4.
- Stafford, Robert H., Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Yarn-advancing reel. 2,432,046; Dec. 2.
- Stafford, Stephen B., Oxford, Mass., assignor to Rice Barton Corporation. Textile printing apparatus. Re. 22,942; Nov. 25.
- Stagg, Allen, Vega, Tex. Windmill. 2,417,022; Mar. 4.
- Staggers, John W., Washington, D. C. Grave vault. 2,429,000; Oct. 14.
- Staghezza, Luis Venancio, Lomas de Zamora, Argentina. Navigation protractor. 2,421,813; June 10.
- Stagmeier, Arthur F., Upper Montclair, N. J., assignor to General Foods Corporation, New York, N. Y. Method and apparatus for forming threaded caps and like articles. 2,429,376; Oct. 21.
- Stahl, Elmer R.: *See*—  
Elvin, William J., and Stahl.
- Stahmann, Mark A., New York, N. Y., and M. Ikawa and K. P. Link, assignors to Wisconsin Alumni Research Foundation, Madison, Wis. 3-substituted 4-hydroxycoumarin and making it. 2,427,578; Sept. 16.
- Stahmann, Mark A., New York, N. Y., and M. Ikawa and K. P. Link, assignors to Wisconsin Alumni Research Foundation, Madison, Wis. 3, 4-dihydropyranocoumarins and making them. 2,427,579; Sept. 16.
- Stair, Virgil A.: *See*—  
Skaggs, Lee D., and Stair.
- Stakmore Co. Inc., assignee: *See*—  
Wilkinson, Michael A.
- Stalcup, Ivan F., Bloomfield, Ind. Garment hanger. 2,419,857; Apr. 29.
- Staley, A. E., Manufacturing Company, assignee: *See*—  
Hansen, Donald W.  
Moyer, Wendell W.
- Staley, Neil D., Columbus, Ohio. Duplex friction roller operated endless web calendar. 2,414,071; Jan. 7.
- Staley, Russell U., Portland, Oreg. Mailbox. 2,431,838; Dec. 2.
- Stalker, Edward A., Bay City, Mich. Rotary wing aircraft with mechanical balancing for flapping. 2,423,733; July 8.
- Stalker, Edward A., Bay City, Mich. High lift device. 2,423,803; July 8.
- Stalker, Edward A., Bay City, Mich. Helicopter rotor with blade-balancing mechanism. 2,425,650; Aug. 12.
- Stalker, Edward A., Bay City, Mich. Rotary wing sustained aircraft. 2,425,651; Aug. 12.
- Stalker, Edward A., Bay City, Mich. Aircraft having axial flow compressor and boundary layer intake. 2,431,592; Nov. 25.
- Stalker, Edward A., Bay City, Mich. Aircraft. 2,432,348; Dec. 9.
- Stalker, W. Grant: *See*—  
Carsey, Eugene A., and Stalker.
- Stallcup, Lester B., Phoenix, Ariz. Arm rest. 2,418,561; Apr. 8.
- Staller, Jack J., Winthrop, Mass. Adjustable trigger stop. 2,425,761; Aug. 19.
- Stallins, Lee, Denver, Colo. Pin curl curler. 2,420,107; May 6.
- Stallmann, Otto: *See*—  
Tinker, John M., and Stallmann.
- Stalnaker, Frederick M., Weston, and P. P. Shaver, Spelter, W. Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Metal handling. 2,420,625; May 13.
- Staloch, Otto, Vancouver, Wash. Heat cradle. 2,429,110; Oct. 14.
- Stalvey, Carl J.: *See*—  
Larson, Raymond W., and Stalvey.
- Stamatoff, Gelu S., Rutherford, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Pressure-sensitive adhesive fabrics. 2,413,931; Jan. 7.
- Stamatoff, Gelu S., Rutherford, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of polyvinyl acetal resins. 2,422,754; June 24.
- Stamatoff, Gelu S., Rutherford, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Drying polyvinyl alcohol. 2,430,372; Nov. 4.
- Stamberger, Paul, Dover, Del. Vulcanized fatty oil emulsions. 2,422,049; June 10.
- Stamets, William K., executor, assignee, et al.: *See*—  
Hibbard, Robert L.
- Stamler, William R., assignor to The Brown-Fayro Company, Johnstown, Pa. Post pulling machine. 2,430,962; Nov. 18.
- Stamm, Alfred J., and H. Tarkow, Madison, Wis., assignors to United States of America, as represented by the Secretary of Agriculture. Acetylation of lignocellulosic board materials. 2,417,995; Mar. 25.
- Stamm, Benjamin I. J., New York, N. Y. Safety gravity controlled valve. 2,433,405; Dec. 30.
- Stammelman, Mortimer J., New York, N. Y. Preserving foodstuffs. 2,417,889; Mar. 25.
- Stamper, Hamilton A., Los Angeles, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Positioning mechanism. 2,421,168; May 27.
- Stanciliff, Clifton L., Bakersfield, Calif. Self-locking insert. 2,429,778; Oct. 28.
- Standard Alcohol Company, assignee: *See*—  
Mottorn, Henry O.
- Standard Brands Incorporated, assignee: *See*—  
Barch, William E.
- Standard Catalytic Company, assignee: *See*—  
Murphree, Eger V.  
Murphree, Eger V., Tyson, Campbell, and Martin.
- Standard Container, Inc., assignee: *See*—  
Fitch, John.
- Standard Duplicating Machines Corporation, assignee: *See*—  
Storek, Frederick W., and Trueman.
- Standard Electric Corporation, assignee: *See*—  
Grace, Bertram B., Handley, and Gilliver.



- Standard Electric Manufacturing Co., The, assignee: *See*—  
Parker, Thomas L.
- Standard Envelope Manufacturing Company, assignee: *See*—  
Pearce, Lewis C.
- Standard Gage Company, Inc., assignee: *See*—  
Emery, Alfred H.
- Standard-Knapp Corporation, assignee: *See*—  
Fischer, Paul E.  
Kimball, Wallace D.
- Standard Mfg. Co., assignee: *See*—  
Batcheller, Hugh W.
- Standard Molding Corporation, assignee: *See*—  
Stigler, Robert G.  
Stigler, Robert G., and Baxter.
- Standard Oil Company, assignee: *See*—  
Adams, Chester E., and Tom.  
Anderson, Albert A.  
Arveson, Maurice H.  
Bearse, Arthur E., and Leonard.  
Bearse, Arthur E., and Morin.  
Becker, Sam B.  
Bolt, John A.  
D'Ouville, Edmond L.  
Fragen, Nathan, and Nysewander.  
Gray, Joseph B.  
Gunness, Robert C.  
Gunness, Robert C., and Snuggs.  
Huber, Harold E., Jr.  
Hunt, Russell A., Jr.  
Johnson, Carl E., and Adams.  
Johnson, Everett A.  
Kropp, Einar.  
Lemmon, Norman E.  
Lien, Arthur P.  
Lien, Arthur P., and Evering.  
Lien, Arthur P., Evering, and Shoemaker.  
Lien, Arthur P., and Shoemaker.  
Loane, Clarence M., and Gaynor.  
Musselman, John M.  
Musselman, John M., and Lankelma.  
Payne, Donald E., and Voorhees.  
Pitzer, Edgar C.  
Proell, Wayne A.  
Roberts, Joseph K.  
Rogers, Thomas H., Watson, and Starrett.  
Roualt, George F.  
Shoemaker, Bernard H., and Evering.  
Swearingen, John E.  
Voorhees, Vanderveer.  
Waugh, Richard C.
- Standard Oil Company, The, assignee: *See*—  
Bartleson, John D.  
Burk, Robert E., and Hughes.  
Hughes, Everett C.  
McConnell, Elliott B.  
Musselman, John M.  
Musselman, John M., and Lankelma.
- Standard Oil Development Company, assignee: *See*—  
Antes, Leland L.  
Arundale, Erving, and Mikeska.  
Atkins, George T., Jr.  
Barr, Frank T.  
Beach, Leland K.  
Beerbower, Alan, and Zimmer.  
Berk, Henry, and Young.  
Betha, Sam R.  
Black, Norman F., and Pirkle.  
Blanding, Forrest H.  
Brandon, Richard C.  
Brown, Cecil L.  
Brown, Orval A.  
Bruce, William A.  
Burnside, Harvey E. W., and Ogorzaly.  
Byrd, Edwin E.  
Calfee, John D., and Thomas.  
Calfee, John D., and Young.  
Camp, Elza Q.  
Campbell, Donald L.  
Campbell, Donald L., and Martin.  
Cannon, George E.  
Cato, Artie Q., Wash, and Shmidt.  
Chambers, Thomas S.  
Chambers, Thomas S., and Slotterbeck.  
Cone, John H.  
Connolly, Gerald C.  
Cornell, Hampton G.  
De Verter, Paul L.  
Duncan, Gordon W., and Zimmer.  
Ellender, Harold L.  
Elmore, Norman M.  
Evans, Hector C., and Young.  
Ferguson, Frank A.  
Filbert, Bryson M.  
Fischer, Herbert G. M.  
Fleming, Charles L., Jr., and McNab.  
Fulton, Stewart C., Tongberg, and Reeves.  
Fuqua, Mack C., and Lovell.  
Gerbes, Otto.  
Given, Richard A.  
Gohr, Edwin J.  
Gohr, Edwin J., Barr, and Roetheli.  
Gohr, Edwin J., Campbell, Graham, and Thompson.  
Gohr, Edwin J., and Richardson.
- Standard Oil Development Company, assignee: *See*—Continued.  
Graham, John M., Gohr and Tyson.  
Hall, Homer J.  
Hamilton, Julian P., and Rubey.  
Harding, Clarke T.  
Haynes, Cecil J., and Swain.  
Heigl, John J.  
Heinrich, Raymond L.  
Hemminger, Charles E.  
Hemminger, Charles E., and Gohr.  
Herbst, Walter A.  
Hewlett, Amlot P., and Paulsen.  
Hibshman, Henry J.  
Hibshman, Henry J., and Jones.  
Hill, Ralph M.  
Hill, Ralph M., and Codet.  
Holder, Clinton H.  
Horeczy, Joseph T.  
Jahnig, Charles E.  
Johnston, Robert K., and Wasson.  
Jones, Minor C. K.  
Kearby, Kenneth K.  
Kellog, Henry B., and Sernluk.  
Kimberlin, Charles N., Jr.  
Kleiber, Carl E., Campbell, Stines, and Atkins.  
Kleiber, Carl E., Campbell, Stines, and Nelson.  
Klinger, Earl W.  
Kollenberg, Conrad H., and Peet.  
Krebs, Robert W.  
Lathrop, Carl M.  
Le Roi, Earl J., and Johnsen.  
Lewis, Elton K.  
Lieber, Eugene.  
Lieber, Eugene, and Cashman.  
Lieber, Eugene, and Thorner.  
Lippincott, Samuel B.  
Macke, Robert A., and Zoeller.  
Martin, Homer Z.  
Mayer, Maurice W.  
McCulloch, Thomas B.  
McNab, John F., and Rogers.  
McNab, John G., and Fleming.  
McNab, John G., Wilson, and Winning.  
McNatt, Eugene M.  
Meier, Herbert H.  
Meinert, Richard N., and Holt.  
Mikeska, Louis A.  
Mikeska, Louis A., and Kittleson.  
Molse, James E.  
Morway, Arnold J., and Zimmer.  
Mottern, Henry O.  
Mounce, Whitman D.  
Munday, John C.  
Myers, Norval F.  
Ogorzaly, Henry J., Martin, and Marancik.  
Ohsol, Ernest O., and Waterman.  
Packie, John W., and Given.  
Packie, John W., and Rupp.  
Palmer, Jewell S.  
Patterson, John A.  
Patterson, John A., and Scheeline.  
Peters, Theodore J., Jr., and Kane.  
Pfennig, Reuben F.  
Pfennig, Reuben F., and Horeczy.  
Pierce, Jerry A., and Kimberlin.  
Redcay, Aaron K.  
Reeves, Edward D.  
Reeves, Edward D., and Munday.  
Rehner, John, Jr., and Flory.  
Reistle, Carl E., Jr., and Cannon.  
Roetheli, Bruno E.  
Rollman, Walter F.  
Russell, Barrett B., 3d.  
Rust, William M., Jr.  
Schrader, Leo W.  
Seyfried, Wilson D.  
Seyfried, Wilson D., and Schiller.  
Shepardson, Robert M.  
Shipley, George H., Jr., and Wilson.  
Shmidt, Albert J.  
Showalter, Jere C.  
Slotterbeck, Ober C.  
Slotterbeck, Ober C., and Morrell.  
Small, James K., and Given.  
Smith, Robert K.  
Smith, Warren M., and Wilson.  
Smith, Winthrop C., and Haworth.  
Sparks, William J., and Calfee.  
Sparks, William J., and Thomas.  
Sparks, William J., and Young.  
Spicer, William E., and Pierce.  
Stratford, Reginald K., and Pokorny.  
Sweeney, William J.  
Tarr, Allan L., and Oxley.  
Thompson, William I., and Campbell.  
Tyson, Charles W.  
Tyson, Charles W., Campbell, Martin, and Murphree.  
Viles, Prentiss S.  
Voorhies, Alexis, Jr.  
Wadley, Edward F., and Horeczy.  
Wasson, Jones I., and Zimmer.  
Watkins, Charles H., and Meinert.  
Whiteley, James M., Jr., and Lynch.  
Willauer, Earl E., and Jones.



- Standard Oil Development Company, assignee: *See*—Continued.  
 Williams, Philip S.  
 Winning, Carl, and Rogers.  
 Wright, Donald L.  
 Young, David W., and Calfee.  
 Zimmer, John C.  
 Zimmer, John C., and Carlson.  
 Zimmer, John C., and McNab.  
 Zimmer, John C., and McNulty.
- Standard Railway Equipment Manufacturing Company, assignee: *See*—  
 Cox, George W.  
 Gilpin, Garth G.  
 Nystrom, Karl T.  
 Sisson, Vinton E.  
 Swann, James S.  
 West, Victor E.
- Standard Register Company, The, assignee: *See*—  
 Falter, Urban M.  
 Metzner, Albert W.  
 Sugarman, Nathan.
- Standard Safety Equipment Co., assignee: *See*—  
 Bray, Allen R.
- Standard Screw Company, assignee: *See*—  
 Corlett, Webster D.
- Standard Steel Spring Company, assignee: *See*—  
 Schantz, Donald H.
- Standard Stoker Company, Inc., The, assignee: *See*—  
 Roesch, Frank P.
- Standard Telephones and Cables Limited, assignee: *See*—  
 Atkinson, Alan B.  
 Bray, Frederick H., and Brown.  
 Chambers, Cyril H.  
 Chatterjea, Prafulla K., and Ambrose.  
 Chatterjea, Prafulla K., and Houghton.  
 Chatterjea, Prafulla K., and Scully.  
 Earp, Charles W.  
 Earp, Charles W., James, and Cleaver.  
 Foster, John.  
 Fremlin, John H.  
 Gibson, William T.  
 Gilliver, Gilbert.  
 Goodchild, Frank D., and Foulkes.  
 Goodchild, Frank D., and Wolsey.  
 Handley, John.  
 Hartley, George C., and Reynolds.  
 Levy, Maurice M.  
 Levy, Maurice M., and Weaver.  
 Maddock, Alan J.  
 McWhirter, Eric M. S., Wolfson, Dunn, and Shepard.  
 Montgomery, William A.  
 Tomlin, Stanley G.  
 Ullrich, Edward H.  
 Willoughby, Eric O.
- Standard-Thomson Corporation, assignee: *See*—  
 Bondurant, Carlton W.
- Standish, John F., Winthrop, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Work support. 2,428,047; Sept. 30.
- Standlee, Mary W., Washington, D. C. Rack. 2,433,406; Dec. 30.
- Standley, George P.: *See*—  
 Burkholder, Alden H., Standley, and McLellan.
- Stangle, William H., deceased, by Citizens Trust & Savings Bank, administrator, Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Radiant provided with triangular pyramidal projection. 2,415,223; Feb. 4.
- Stanley, Amos L., Middletown, assignor to All American Aviation, Inc., Wilmington, Del. Compound motor with relay for reversing and breaking. 2,426,378; Aug. 26.
- Stanley, Edmund: *See*—  
 Olpin, Henry C., Stanley, and Argyle.  
 Stanley, Leopold G., Maplewood, N. J. Billfold. 2,423,911; July 15.  
 Stanley, Leopold G., Maplewood, N. J. Leather key case. 2,424,290; July 22.
- Stanley, Lester N.: *See*—  
 Von Glahn, William H., and Stanley.
- Stanley, Paul H., Huntingdon Valley, assignor to Autogiro Company of America, Philadelphia, Pa. Rotative winged aircraft having a plurality of yaw-moment producing means. 2,419,604; Apr. 29.
- Stanley, Richard W.: *See*—  
 Denysen, Ivanhoe P., and Stanley.
- Stanley, Richard W., Drexel Hill, Pa., assignor to American Viscose Corporation, Wilmington, Del. Thread handling device. 2,415,115; Feb. 4.
- Stanley, Richard W., Drexel Hill, Pa., assignor to American Viscose Corporation, Wilmington, Del. Thread-advancing reel. 2,419,605; Apr. 29.
- Stanley, Richard W., Drexel Hill, Pa., assignor to American Viscose Corporation, Wilmington, Del. Artificial fiber spinning machine. 2,427,373; Sept. 16.
- Stanley, Richard W., Drexel Hill, Pa., assignor to American Viscose Corporation, Wilmington, Del. Thread-advancing reel. 2,431,712; Dec. 2.
- Stanley, Robert H.: *See*—  
 Smith, Arthur E. W., Scaife, and Stanley.  
 Wilder, Arthur E. W., Stanley, and Scaife.
- Stanley, Robert M.: *See*—  
 Kelley, Frank H., and Stanley.
- Stanley, Robert M., Kenmore, and J. F. Strickler, Jr., Williamsville, assignors to Bell Aircraft Corporation, Buffalo, N. Y. Aircraft flight instrument. 2,424,511; July 22.
- Stano, Leonard, assignee, et al.: *See*—  
 Warren, Lucille P.
- Stanolind Oil and Gas Company, assignee: *See*—  
 Cloud, Raymond T.  
 Menaul, Paul L.  
 Silverman, Daniel, and Gilmartin.  
 West, Samuel S.
- Stanolind Pipe Line Company, assignee: *See*—  
 Hill, Arthur M., Miller, and Baker.
- Stanphill, Martin L., Denison, Tex. Neuro-vaso detector. 2,429,968; Oct. 28.
- Stanton, Samuel J., assignor to Patents Promotions Corporation, Chicago, Ill. Dental care outfit. 2,415,447; Feb. 11.
- Stanton, Samuel J., assignor to Patents Promotions Corporation, Chicago, Ill. Key carrier. 2,433,245; Dec. 23.
- Stanton, William A.: *See*—  
 Blake, Ralph K., Stanton, and Schulze.
- Stanworth, John E., Rugby, England, assignor to General Electric Company. Fluorescent lamp and manufacture. 2,418,202; Apr. 1.
- Stanworth, John E., Sheffield, England, assignor to General Electric Company. Borosilicate glasses. 2,426,472; Aug. 26.
- Stanworth, John E., Sheffield, England, assignor to General Electric Company. Glass composition. 2,429,432; Oct. 21.
- Staples, Crawford E., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. Re. 22,931; Nov. 4.
- Staples, Dana R., Ridley Park, and R. A. Miller, Drexel Hill, Pa., assignors to The Baldwin Locomotive Works. Electric motor control system for locomotives. 2,431,145; Nov. 18.
- Stapleton, George M., Sea Cliff, N. Y., assignor to Ward Leonard Electric Company. Shockproof electromagnetic device. 2,424,776; July 29.
- Stapleton, Victor, Dhahran, Saudi Arabia, assignor to The Texas Company, New York, N. Y. Catalytic polymerization of olefins. 2,425,493; Aug. 12.
- Stapley, S. G., Thorold, Ontario, and W. Subart, Merriton, Ontario, Canada. Pulping machine. 2,433,490; Dec. 30.
- Star Sprinkler Corporation, assignee: *See*—  
 Barz, Joseph.
- Star Thompson Tobacco Company, (Incorporated), assignee: *See*—  
 Roby, Harry L.
- Starck, Werner, Hofheim, Taunus, and H. Freudenberger, Frankfurt-on-the-Main-Nied, Germany; vested in the Attorney General of the United States. Aqueous emulsions and preparing them. 2,422,646; June 17.
- Stark, Frank H., Kathryn, N. Dak. Caterpillar tractor friction assembling and disassembling tool. 2,428,182; Sept. 30.
- Stark, Rawson E.: *See*—  
 Stupakoff, Semon H., and Stark.
- Stark, Rawson E., Greensburg, assignor to Stupakoff Ceramic & Manufacturing Co., Latrobe, Pa. Electrical insulator. 2,431,839; Dec. 2.
- Stark, William T.: *See*—  
 Wiegand, Francis J., Stark, and Rowe.
- Starkey, Wesley R., assignee: *See*—  
 Gilliam, Harry F.
- Starkey, William A., Zionsville, assignor to Harper J. Ransburg Company, Indianapolis, Ind. Method and apparatus for spray coating articles. 2,425,652; Aug. 12.
- Starkey, William C., assignor to Fletcher Trust Company, Indianapolis, Ind. Three-way clutch. 2,415,050; Jan. 28.
- Starkey, William C., assignor, by mesne assignments, Fletcher Trust Company, Indianapolis, Ind. Anti-kickback clutch. 2,421,814; June 10.
- Starnes, George F., Hickory, N. C. Voltage regulator. 2,419,176; Apr. 15.
- Starr, Allan M., Piedmont, assignor to Starr & Sweetland, San Francisco, Calif. Internal-combustion engine. Re. 22,871; Apr. 15.
- Starr, Allan M., Piedmont, Calif., assignor to Starr and Sweetland. Engine controller. 2,431,516; Nov. 25.
- Starr, John H.: *See*—  
 Hyland, William A., and Starr.
- Starr and Sweetland, assignee: *See*—  
 Starr, Allan M.
- Starr, Ralph W., Napa, Calif. Full automatic landing legs for semitrailers. 2,418,240; Apr. 1.
- Starr & Sweetland, assignee: *See*—  
 Starr, Allan M.
- Starrett, James W.: *See*—  
 Rogers, Thomas H., Watson, and Starrett.
- Starrett, L. S., Company, The, assignee: *See*—  
 Koning, Gerald.
- Start, Ernest: *See*—  
 Start, Harry W. and E.
- Start, Harry W., Carlton, and E. Start, Wilford, England. Knocking-over bit construction. 2,418,323; Apr. 1.
- State University of Iowa, The State of Iowa, for the use and benefit of the, assignee: *See*—  
 Kuever, Rudolph A., and Wheeler.



- Stather-Dunn, Eustace, and F. M. Menheneott, London, assignors to Betts & Company Limited, London County, England. Making collapsible tubes. 2,416,962; Mar. 4.
- Staub, Alfred: *See—*  
Martin, Henry, Zaeslin, Hirt, and Staub.
- Staufenbiel, Jacob L., Affton, Mo. Poultry decapitator. 2,417,890; Mar. 25.
- Stauffer, Franz: *See—*  
Dornier, Claude, Stauffer, Wöhner, and Bottling.
- Stauffer Chemical Company, assignee: *See—*  
Belchetz, Arnold.  
Durham, Wallace.  
Missbach, Edmund C.  
Stauffer, John, Jr.  
Wean, Robert E., and Charlton.  
Wilde, Cecil B.
- Stauffer, John, Jr., Los Angeles, Calif., assignor to Stauffer Chemical Company. Manufacture of superphosphate fertilizers. 2,418,203; Apr. 1.
- Stauffer, Robert A., Cambridge, assignor to National Research Corporation, Boston, Mass. Production of alkali metals and their oxides. 2,424,512; July 22.
- Stauffer, Robert E., and W. F. Smith, assignors to Eastman Kodak Company, Rochester, N. Y. Silver halide emulsions containing water-insoluble hydrazine derivatives. 2,419,974; May 6.
- Staunt, Martin, Chicago, Ill. Dental hand piece. 2,432,179; Dec. 9.
- Stavely, Frederick W.: *See—*  
Edgar, Kenneth L., Stavely, and Novotny.
- Stavely, Robert W., Detroit, Mich. Toothbrush. 2,414,775; Jan. 21.
- Stavick, Anton A., Geddes, S. Dak. Adjustable comb support. 2,431,840; Dec. 2.
- Staw, Morris, Forest Hills, N. Y. Method to prevent the destruction of garments by perspiration. 2,414,616; Jan. 21.
- Staynew Filter Corporation, assignee: *See—*  
Dollinger, Lewis L.
- Steadman, Albert, Upper Montclair, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Cathode-ray tube coating. 2,419,177; Apr. 15.
- Steadman, Thomas R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Preparation of beta lactones. 2,424,589; July 29.
- Steadman, Thomas R., and P. L. Breyfogle, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Preparation of beta lactones. 2,424,590; July 29.
- Steahly, George W., assignor to Monsanto Chemical Company, St. Louis, Mo. Making 2-amino-5-substituted 1,3,4-thiadiazole. 2,422,050; June 10.
- Stearns, Edwin I., Jr., North Plainfield, and G. L. Buc, Orange, N. J., assignors to American Cyanamid Company, New York, N. Y. Photometric apparatus giving readings invariant with azimuth on polarizing samples. 2,430,833; Nov. 11.
- Stearns, Edwin I., Jr., North Plainfield, and G. L. Buc, Orange, N. J., assignors to American Cyanamid Company, New York, N. Y. Photometric apparatus giving readings invariant with azimuth on polarizing samples. 2,430,834; Nov. 11.
- Stearns, Horace M., Merrick, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Automatic tracking system. 2,427,029; Sept. 9.
- Stechbart, Bruno, Park Ridge, assignor to The Bell & Howell Company, Chicago, Ill. Optical reticle. 2,420,503; May 13.
- Stechbart, Bruno, Park Ridge, assignor to The Bell & Howell Company, Chicago, Ill. Slide projector apparatus. 2,427,164; Sept. 9.
- Stechbart, Bruno, Park Ridge, and P. C. Foote, assignors to The Bell & Howell Company, Chicago, Ill. Picture projecting apparatus and projection system therefor. 2,424,339; July 22.
- Stecher, Henry D., Lakewood, Ohio, and J. L. Murray, Manhasset, N. Y., assignors to The Weatherhead Company, Cleveland, Ohio. Tubular connection. 2,432,592; Dec. 16.
- Steckler, Atlee P., assignee: *See—*  
Fontenot, Remie E., and Dooley.
- Stedman, Theodore W., New York, N. Y., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Base plate for frogs and crossings. 2,424,916; July 29.
- Steel City Testing Machines, Incorporated, assignee: *See—*  
Weaver, Sara E.
- Steel Heddle Manufacturing Company, assignee: *See—*  
Kaufmann, John J.
- Steel Processing Company, assignee: *See—*  
Millard, Emmor H., and Wilson.
- Steel Products Engineering Company, The, assignee: *See—*  
Pruit, Rodman C., Fowle, and Iglehart.  
Sherman, Thomas L.
- Steel Tank Corporation, assignee: *See—*  
Haller, John, and Thompson.
- Steel, Van H., Portland, Oreg. Therapeutic method and means. 2,415,659; Feb. 11.
- Steele, Bryant, Lexington, Ky., assignor of one-fourth to MacClatchie Manufacturing Company of California, Compton, Calif. Starting gate. 2,414,984; Jan. 28.
- Steele, Frederick: *See—*  
Flader, Fredric E., Lakowitz, and Steele.
- Steele, Raymond J., Los Angeles, Calif. Air-conditioning unit. 2,431,146; Nov. 18.
- Steen, William E., South Pasadena, assignor to Smith Meter Company, Los Angeles, Calif. Trip nozzle with float controlled valve. 2,418,280; Apr. 1.
- Steffen, Ralph M., North Hollywood, Calif. Underground oil recovery. 2,421,528; June 3.
- Steffen, Raymond A., assignor to The Champion Paper and Fibre Company, Hamilton, Ohio. Laminated paper product. 2,423,053; June 24.
- Steffes, Milton J., Dearborn, Mich., assignor to Super Tool Company. Tool holder. 2,418,734; Apr. 8.
- Steffes, Milton J., Dearborn, assignor to Super Tool Company, Macomb County, Mich. Inserted blade cutter and clamping means. 2,420,057; May 6.
- Stegeman, Raymond F. E., Greece, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Illuminating device. 2,424,064; July 15.
- Steger Products Manufacturing Corporation, assignee: *See—*  
Trabucco, Vincent R.
- Stehlik, Marian, New York, N. Y. Shoulder pad. 2,416,415; Feb. 25.
- Steiber, Theodore E., Bridgeport, Conn. Adjustable wrench. 2,427,425; Sept. 16.
- Steiger, Benjamin F., Maplewood, assignor to United Electronics Company, Newark, N. J. Getter apparatus. 2,426,247; Aug. 26.
- Steiger, Jacques, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland. Crankshaft for two-stroke engines with twelve cylinders in line. 2,426,753; Sept. 2.
- Steigerwald, Joseph F., Shaker Heights, assignor, by mesne assignments, to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Lapping tool. 2,419,297; Apr. 22.
- Steigman, Joseph: *See—*  
Cohen, Morris U., and Steigman.
- Stein, Charles F., Chicago, Ill., assignor to Pratt, Read & Co., Inc., Ivoryton, Conn. Piano. 2,431,350; Nov. 25.
- Stein, Edward J., Bellerose Manor, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Selective-position control mechanism. 2,432,349; Dec. 9.
- Stein, Hall & Co., Inc., assignee: *See—*  
Bauer, Hans F., and Glabe.  
Bauer, Jordan V., and Selner.  
Caesar, George V.  
Caesar, George V., and Thompson.  
Frieden, Alexander, and Werbin.
- Stein, Joseph: *See—*  
Breslow, Nathan, Stein, and Kneitel.
- Stein, Joseph P., Los Angeles, Calif. Liquidproof container. 2,426,797; Sept. 2.
- Stein, Joseph P., Los Angeles, Calif. Ammunition container. 2,426,798; Sept. 2.  
Barr, Naaman F., and Schneider.
- Stein, Michael R., New York, N. Y. Pneumatic mattress. 2,415,150; Feb. 4.
- Stein, Noah, Jamaica, N. Y. Stair pad. 2,427,631; Sept. 16.
- Stein, Oswald, Watford, assignor to Ilford Limited, Ilford, England. Production of gelatin layers. 2,417,713; Mar. 18.
- Stein, Walter: *See—*  
Silman, Harold and Stein.
- Steinberg, Dave: *See—*  
Steinberg, Ralph H. and D.
- Steinberg, Ervin B., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Ignition plunger for electric discharge devices with liquid cathode. 2,430,653; Nov. 11.
- Steinberg, Fritz: *See—*  
Becker, Gottfried, Daevs, and Steinberg.
- Steinberg, John C.: *See—*  
Munson, Wilden A., and Steinberg.
- Steinberg, Ralph H. and D., Chicago, Ill. Metallic impregnated graphitic material and producing the same. 2,415,196; Feb. 4.
- Steiner, Arnold B., La Jolla, assignor to Kelco Company, San Diego, Calif. Manufacture of glycol alginates. 2,426,125; Aug. 19.
- Steiner, Edward C., Oklahoma City, Okla., assignor to Wright Aeronautical Corporation. Valve stem construction. 2,418,674; Apr. 8.
- Steiner, Hans, assignor to Sulzer Freres, Society Anonyme, Winterthur, Switzerland. Free-piston internal-combustion engine. 2,429,948; Oct. 28.
- Steiner, Moe, Brooklyn, N. Y. Cloth-cutting machine knife sharpener. 2,423,570; July 8.
- Steiner, Otto, Berlin-Spandau, Germany; vested in the Attorney General of the United States. Cinematograph camera. 2,422,635; June 17.
- Steiner Sales Company, assignee: *See—*  
Birr, Rudolph G.
- Steinhauser, Hayes B.: *See—*  
Moseley, Francis L., Isbister, and Steinhauser.
- Steinhurst, Emil & Sons, Inc., assignee: *See—*  
Steinhurst, Henry.
- Steinhurst, Henry, assignor to Emil Steinhurst & Sons, Inc., Utica, N. Y. Container door stopping and supporting device. 2,417,401; Mar. 11.
- Steinitz, Otto, New York, N. Y. Creeping toy. 2,425,051; Aug. 5.



- Steinke, Theodore W., assignor to The Gates Rubber Company, Denver, Colo. Making power transmission belts. 2,422,266; June 17.
- Steinle, Leo E.: *See—*  
Kirby, Walter G., and Steinle.
- Steinmayer, Alvin G., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Switch construction. 2,431,147; Nov. 18.
- Steinmetz, Walter C., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Overload release clutch. 2,430,691; Nov. 11.
- Steins, Carleton K., and W. M. Keller, Merion, assignors to The Pennsylvania Railroad Company, Philadelphia, Pa. Stabilizing mechanism for rail and other wheeled vehicles. 2,417,526; Mar. 18.
- Steinschlaeger, Michael, London, England. Process and apparatus for the cracking of carbonaceous material. 2,423,527; July 8.
- Steinthal, Augustus, assignee, et al.: *See—*  
Atherton, Archie P.
- Steinthal, Martin, assignee, et al.: *See—*  
Atherton, Archie P.
- Stellwagen, Frank W.: *See—*  
Canziani, Victor J., and Stellwagen.
- Stelter, Francis C. W., New York, N. Y. Burglar alarm for cash drawers. 2,416,963; Mar. 4.
- Stelz, Frank F., Sunnyside, Long Island, assignor to Ideal Novelty & Toy Co., Long Island City, N. Y. Shaping machine. 2,420,759; May 20.
- Stelzer, Ira O., Wooster, Ohio. Clean sweep counter and stool construction. 2,428,534; Oct. 7.
- Stelzer, William, Summit, N. J. Power brake. 2,414,675; Jan. 21.
- Stelzer, William, Summit, N. J. Garden cart. 2,433,246; Dec. 23.
- Stengel, Leonard A., and R. S. Egly, assignors to Commercial Solvents Corporation, Terre Haute, Ind. Vapor phase nitration of alkanes. 2,418,241; Apr. 1.
- Stengl, Rudolph J.: *See—*  
Cecil, Lawrence K., Stengl, and Bedwell.
- Stengren, Jon, Forest Hills, N. Y. Container with inclined front opening and closure means therefor. 2,422,594; June 17.
- Stenning, Albert E.: *See—*  
Williams, Joseph H., and A. E. and R. H. Stenning.
- Stenning, Reginald H.: *See—*  
Williams, Joseph H., and A. E. and R. H. Stenning.
- Stensgaard, W. L., and Associates, Inc., assignee: *See—*  
Stensgaard, William L.
- Stensgaard, William L., Chicago, Ill., assignor to W. L. Stensgaard and Associates, Inc. Reusable nesting shipping container. 2,421,225; May 27.
- Stenson, Olaf, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-perforating and eyelet-setting apparatus. 2,415,769; Feb. 11.
- Stenzel, Richard W., Long Beach, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Electric treater. 2,425,354; Aug. 12.
- Stenzy, August F. P., Baltimore, Md. Stove with internal air chamber. 2,417,138; Mar. 11.
- Step, James M., Paris, Ill. Transporting vehicle with conveyor for unloading. 2,431,000; Nov. 18.
- Stepanian, John, West New York, N. J. Bottle dryer. 2,419,040; Apr. 15.
- Stephan, Ingo L.: *See—*  
Bradley, William E., Clapp, and Stephan.
- Stephan, Ingo L., Delanco, N. J., assignor to Philco Corporation, Philadelphia, Pa. Adjustable mounting. 2,424,513; July 22.
- Stephanson, Edward L., Montreal, Quebec, Canada, assignor to Western Electric Company, Incorporated, New York, N. Y. Switching device. 2,414,342; Jan. 14.
- Stephenson, Thomas W., Detroit, and A. J. Schumaker, Birmingham, assignors to Ford Motor Company, Dearborn, Mich. Spare tire mounting. 2,433,169; Dec. 23.
- Stephen, James, assignor to Highway Trailer Company, Edgerton, Wis. Fifth wheel locking mechanism. 2,429,532; Oct. 21.
- Stephens-Adamson Mfg. Co., assignee: *See—*  
Held, Thomas R.
- Stephens, Frederick L., Indianapolis, Ind. Savings bank. 2,429,494; Oct. 21.
- Stephens, Henry N.: *See—*  
Frederickson, Russell H., and Stephens
- Stephens, Howard O., Pittsfield, Mass., assignor to General Electric Company. Transformer circuit. 2,421,300; May 27.
- Stephens, Joseph F., Kansas City, Mo., assignor to Gustin-Bacon Manufacturing Company. Tube fitting. 2,423,122; July 1.
- Stephens, Joseph F., Kansas City, Mo., assignor to Gustin-Bacon Manufacturing Company. Pipeline swab. 2,427,632; Sept. 16.
- Stephens, Joseph J. W., South Pasadena, Calif. Inspection light. 2,429,850; Oct. 28.
- Stephens, Robert, Guthrie, Okla. Machine for reclaiming bearings. 2,424,591; July 29.
- Stephens, Roderick, Jr., New York, N. Y. Rudder control linkage. 2,420,154; May 6.
- Stephens, Thomas J., New York, N. Y., assignor of one-half to C. V. Seltman. Continuous bake oven. 2,431,207; Nov. 18.
- Stephens, William T., assignor to Hydraulic Control Engineering Company, Cleveland, Ohio. Equalizing valve. 2,423,264; July 1.
- Stephenson, Richard, Long Island City, N. Y., and W. E. Watson, West Orange, N. J., assignors to General Chemical Company, New York, N. Y. Manufacture of fluosulfonic acid. 2,430,963; Nov. 18.
- Stephenson, Robert W.: *See—*  
Kyrides, Lucas P., Zienty, and Stephenson.
- Stephenson, Wilbur T., Midland, and J. A. Palmer, Chicago, Ill., assignors to The Dow Chemical Company, Midland, Mich. Apparatus for making pipe from thermoplastic resin. 2,414,776; Jan. 21.
- Stephenson, William Ewart, Summit, Ill., assignor to Corn Products Refining Company, New York, N. Y. Revolvable can spout. 2,430,147; Nov. 4.
- Sterick, Harrison D., and L. C. Strickland, Pittsburgh, Pa. Heat screen. 2,432,047; Dec. 2.
- Sterling Drug Inc., assignee: *See—*  
Lasersohn, Martin.  
Sahyun, Melville.
- Sterling Electric Motors, Inc., assignee: *See—*  
Palm, Bernhard N.
- Sterling Industries Limited, assignee: *See—*  
Thomas, Percival E.
- Sterling Tool Products Company, assignee: *See—*  
Crosby, Stephen A.
- Sterling Varnish Company, The, assignee: *See—*  
Alexander, Don F.
- Stern, Abraham, New York, N. Y. Apparatus for locating leaks. 2,430,034; Nov. 4.
- Stern, Albert, Chicago, Ill. Embrittled silver solder bonded abrasive. 2,418,529; Apr. 8.
- Stern, Benjamin A., deceased, Newark, N. J., by H. Stern, executor, Springfield, Mass., assignor to J. J. Koffler, Newark, N. J. Vibrating armature massager. 2,430,414; Nov. 4.
- Stern, Harry, executor: *See—*  
Stern, Benjamin A.
- Stern, Louis, assignee: *See—*  
Barnett, Louis.
- Stern, Paul H.: *See—*  
Johnson, Norman A., and Stern.
- Stern, Samuel, assignee, et al.: *See—*  
Jasinski, Anthony F.
- Sternberg, Erich K. W.: *See—*  
Petren, Torsten S. A., and Sternberg.
- Sterne, Rita C., assignee, et al.: *See—*  
Du Bois, Joseph E.
- Sterner, Bernard, London, England. Key. 2,423,734; July 8.
- Sterner, Bernard, Antwerp-Berchem, Belgium. Cylindrical combination lock. 2,424,514; July 22.
- Sterner, Bernard, London, England. Key for cylinder locks. 2,428,397; Oct. 7.
- Sternfels, Martin M.: *See—*  
Lowenheim, Frederick A., and Sternfels.
- Sternfels, Martin M., Waterbury, Conn., assignor to Chromium Corporation of America, New York, N. Y. Apparatus for producing electroplated sheets. 2,429,902; Oct. 28.
- Sterrett, Charles C., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Roll-away cover for generator auxiliaries. 2,424,340; July 22.
- Sterrett, Robert R., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Reducing the curing rate of butadiene-styrene copolymer rubber. 2,429,080; Oct. 14.
- Sterrett, Robert R., Borough of Totowa, N. J., and F. L. Holbrook, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y. Curing olefin-diolefin copolymers. 2,427,514; Sept. 16.
- Stertzbach, Harry W.: *See—*  
Orr, Claude L., and Stertzbach.
- Stetson, John B., Company, assignee: *See—*  
Wells, Burling D.
- Stettner, Ludwig W., Piedmont, and K. F. Heinemann, Oakland, assignors to Victor Equipment Company, San Francisco, Calif. Valve. 2,415,660; Feb. 11.
- Stetzer, Theodore B., Chicago, Ill. Fastening means. 2,432,257; Dec. 9.
- Steuber, Charles H., and P. J. McCullough, assignors to J. Pavelka, St. Louis, Mo. Quick circuit change for electrically actuated devices. 2,420,727; May 20.
- Steuber, Henry N., Montclair, N. J., assignor to American Dyewood Company, New York, N. Y. Treating triphenyl rosaniline spirit blue. 2,429,081; Oct. 14.
- Stevason, Orville, Indianapolis, Ind. Wall cleaner. 2,426,531; Aug. 26.
- Steven, Ray L., Los Angeles, Calif. Heated food package. 2,425,900; Aug. 19.
- Stevens, Adolph K., Buffalo, N. Y. Antiskid device. 2,422,595; June 17.
- Stevens-Arnold Company, Incorporated, assignee: *See—*  
Reifel, Harry, and Crandell.
- Stevens, Arthur J.: *See—*  
Schumb, Walter C., and Stevens.
- Stevens, Brooks, Jr., Concord, assignor to Lawrence Manufacturing Company, Lowell, Mass. Knitted fabric with noncurling, longitudinally extending edges, and making same. 2,414,424; Jan. 14.
- Stevens, Charles H., Indianapolis, Ind. Wheel abutment for jacks. 2,422,144; June 10.



- Stevens, Clarence C., Forestville, Conn., assignor to General Motors Corporation, Detroit, Mich. Spindle mounting and driving unit. 2,416,886; Mar. 4.
- Stevens, Donald R.: *See—*  
McKinley, Joseph B., and Stevens.
- Stevens, Donald R., Ridgewood, assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J. Electric cable. 2,419,095; Apr. 15.
- Stevens, Everett L., Oak Park, Ill. Tractor-trailer coupling mechanism. 2,431,779; Dec. 2.
- Stevens, George, Baltimore, Md., assignor, by mesne assignments, to The American Rolling Mill Company, Middletown, Ohio. Making saw blades. 2,431,517; Nov. 25.
- Stevens, George E., Denver, Colo., assignor to The Western States Machine Company, Hamilton, Ohio. Method and apparatus for affining sugar. 2,426,126; Aug. 19.
- Stevens, Henry C., Akron, Ohio, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Stabilization of organic peroxides. 2,445,971; Feb. 18.
- Stevens, John L., Lomita, Calif. Flytrap. 2,429,377; Oct. 21.
- Stevens, Nichols, Chicago, Ill. Repair device. 2,432,457; Dec. 9.
- Stevens, Paul S., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Dumping device for wheel excavators. 2,417,846; Mar. 25.
- Stevens, Paul S., Milwaukee, and M. Sundnes, South Milwaukee, Wis. Cradle lock for cannon wagons. 2,432,974; Dec. 16.
- Stevens, Richard H., and T. Wilson, Baltimore, Md., assignors to Bethlehem Steel Company. Automatic cutting apparatus. 2,416,652; Feb. 25.
- Stevens, Richard H., and T. Wilson, Baltimore, Md., assignors to Bethlehem Steel Company. Flying hot saw. 2,416,653; Feb. 25.
- Stevens, Roy R., Forest Hills, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Dual pneumatic power control. 2,422,596; June 17.
- Stevens, Roy R., Forest Hills, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Clutch operating mechanism. 2,426,063; Aug. 19.
- Stevens, Roy R., Forest Hills, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure control mechanism. 2,426,064; Aug. 19.
- Stevens, Roy R., Forest Hills, and H. M. Linhart, Pittsburgh, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Control valve device. 2,426,065; Aug. 19.
- Stevenson, Arthur E., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Art of displacing air in the packaging of products by the use of bubbles of inert gas. 2,433,071; Dec. 23.
- Stevenson, Arthur E., Oak Park, Ill., and B. H. Schaub, Long Beach, assignors to Continental Can Company, Inc., New York, N. Y. Electrolytic treatment of tin plate for preventing sulfur staining. 2,424,718; July 29.
- Stevenson, Francis M. and J. L. Raynes, assignors to Stevensons (Dyers) Limited, Ambergate, England. Antishrinking treatment of animal fibers. 2,429,082; Oct. 14.
- Stevenson, Robert, Barrington, R. I., assignor to Merit Engineering, Inc. Hydraulic servomotor with rotating cylinder and fluid transfer means adapted therefor. 2,420,626; May 13.
- Stevenson, Robert, Barrington, and A. W. Keema, Providence, R. I., assignors to Merit Engineering, Inc. Remote control apparatus. 2,420,627; May 13.
- Stevensons (Dyers) Limited, assignee: *See—*  
Stevenson, Francis M., and Raynes.
- Stevermer, Frank J., Rio Vista, Calif. Fish lure. 2,429,568; Oct. 21.
- Steving, John, Jr., Berthoud, Colo. Hot-water steam flashing power-generating apparatus and method with feed and furnace regulation. 2,429,035; Oct. 14.
- Stewack, John F., Downers Grove, Ill. Brake for baby carriages. 2,425,574; Aug. 12.
- Stewart, Alexander, Mountain Lakes, N. J., A. R. Pitrot, Hempstead, and L. M. Kebrich, Brooklyn, assignors to National Lead Company, New York, N. Y. Complex salts containing lead phthalate and lead salts of aliphatic acids. 2,415,917; Feb. 18.
- Stewart, Alexander, Mountain Lakes, N. J., A. R. Pitrot, Hempstead, and L. M. Kebrich, Brooklyn, assignors to National Lead Company, New York, N. Y. Complex lead phthalate-containing compositions and preparing same. 2,424,515; July 22.
- Stewart, Carlton D., Wilkesburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Pipe fitting. 2,422,597; June 17.
- Stewart, Claudius F., and G. J. M. Penet, Paris, France, assignors to International Standard Electric Corporation, New York, N. Y. Interurban telephone system. 2,421,123; July 1.
- Stewart, Edward B., Gary, Ind. Coil tilter. 2,426,569; Aug. 26.
- Stewart, Edwin S., Spokane, Wash. Gear driven socket wrench. 2,429,569; Oct. 21.
- Stewart, Everett R., Glendale, Calif. Helicopter navigation light. 2,423,528; July 8.
- Stewart, Frank P., Salt Lake City, Utah. Pan motion belt apparatus for ore separation. 2,421,397; June 3.
- Stewart, George C., Caldwell, N. J. Plotting instrument. 2,424,065; July 15.
- Stewart, George R., Los Angeles, Calif. Film data projection device. 2,419,041; Apr. 15.
- Stewart, Gilbert: *See—*  
Seyferth, Harold N., and Stewart.
- Stewart, Gilbert, assignor to Ex-Cell-O Corporation, Detroit, Mich. Grinding screw threads. 2,420,504; May 13.
- Stewart, Gilbert, and G. Brinkmann, Detroit, and H. N. Seyferth, East Detroit, assignors to Ex-Cell-O Corporation, Detroit, Mich. Thread grinding machine. 2,417,714; Mar. 18.
- Stewart Hartshorn Company, assignee: *See—*  
Morpeth, Anthony.
- Stewart, Howard J., Apollo, assignor to Union Spring and Manufacturing Co., New Kensington, Pa. Disk spring assembly. 2,417,715; Mar. 18.
- Stewart, Hugh W.: *See—*  
Scalera, Mario, and Stewart.
- Stewart, James E., Rye, N. Y., assignor to The Rotomat Corporation. Vending machine. 2,423,265; July 1.
- Stewart, James S., assignor to Curved Plywood Products Co., Portland, Ore. Machine for making plywood in curved shapes. 2,418,100; Mar. 25.
- Stewart, John W., Lake Forest, assignor to The Cuneo Press, Inc., Chicago, Ill. Decalcomania paper. 2,425,653; Aug. 12.
- Stewart, Meredith M., Beacon, R. C. Garrett, Fishkill, and E. E. SENSEL, Beacon, assignors, by mesne assignments, to The Texas Company, New York, N. Y. Effecting catalytic reaction between carbon monoxide and hydrogen. 2,433,072; Dec. 23.
- Stewart Products Corporation, assignee: *See—*  
Waite, Charles C., Bender and Arnett.
- Stewart, Robert G., Sr., Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation. Metal rolling mill universal spindle coupling. 2,420,573; May 13.
- Stewart-Warner Corporation, assignee: *See—*  
Bryan, Robert H., and Johnston.  
Davis, Ernest W.  
Fagen, William F.  
Farr, Willard H., and Fagen.  
Garancher, Marcel.  
Heyman, Seymour E.  
Klug, Charles W.  
Leslie, John H., II.  
Leslie, John H., III.  
Malone, Homer F.  
Marshall, William A., Jr.  
Mather, Irwin E., Allen, and Budlane.  
McCollum, Henry J. D.  
Palm, George H.  
Parrish, William C.  
Reber, Grote.  
Spackman, Thomas F.  
Wedeborg, Reuben.  
Whitted, John B.  
Williams, Lynn A., Jr.  
Williams, Lynn A., Jr., and McCollum.
- Stewart, William A., Philadelphia, Pa., assignor, by mesne assignments, to Philco Corporation. Measuring power output of high frequency signal generators. 2,421,724; June 3.
- Stewart, William A., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Variable frequency cavity resonator oscillator. 2,421,725; June 3.
- Stewart, William D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Catalysts for the polymerization of butadiene-1,3 hydrocarbons. 2,416,461; Feb. 25.
- Stewart, William D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Polymerization of conjugated dienes in presence of biological oxidation catalysts. 2,430,590; Nov. 11.
- Stewart, William D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Ureides of glyoxylic and glycolic acids as catalysts for the polymerization of butadiene-1,3 hydrocarbons. 2,430,591; Nov. 11.
- Stewart, William H., and E. Martin, East Jaffrey, N. H. Severing tape dispenser. 2,430,744; Nov. 11.
- Stewart, William T., Berkeley, assignor to California Research Corporation, San Francisco, Calif. Making alkali metal selenides. 2,450,255; Nov. 4.
- Stiebel, Merlin A., Kansas City, Mo., assignor to Quik-Seal, Inc. Refrigerated dough mixer. 2,415,711; Feb. 11.
- Stiebel, Merlin A., Kansas City, Mo., assignor to Quik-Seal, Inc. Bread molding machine. 2,425,356; Aug. 12.
- Stickney, Robert S., Los Angeles, Calif. Fuel induction means for internal combustion engines. 2,419,096; Apr. 15.
- Stiefel, Karl J., Waltham, assignor to Raytheon Manufacturing Company, Newton, Mass. Electrical system. 2,415,116; Feb. 4.
- Stiefel, Karl J., Waltham, assignor to Raytheon Manufacturing Company, Newton, Mass. Electrical system. 2,417,452; Mar. 18.
- Stieglitz, Henry M.: *See—*  
Adam, Frederick E., Green, and Stieglitz.
- Stieglitz, Henry M., assignor to Frank Adam Electric Company, St. Louis, Mo. Solderless connector for electrical conductors. 2,422,934; June 24.



- Stigler, Robert G., assignor to Standard Molding Corporation, Dayton, Ohio. Bottle carrier. 2,431,713; Dec. 2.
- Stigler, Robert G., and E. L. Baxter, assignors to Standard Molding Corporation, Dayton, Ohio. Waterproof flashlight. 2,431,518; Nov. 25.
- Still, Hobart T., Kenmore, N. Y. Stand for smokers' pipes and the like. 2,433,170; Dec. 23.
- Stille, Paul E., Royal Oak, Mich. Engine fuel vaporizer. 2,419,298; Apr. 22.
- Stiller, Eric T., Fanwood, assignor to Merck & Co., Inc., Rahway, N. J. Compounds containing an active methylene group, and preparing the same. 2,422,598; June 17.
- Stillman, Alfred, Brooklyn, N. Y. Parachute toy. 2,426,323; Aug. 26.
- Stillman, Nathan: *See*—  
Wachter, Aaron, and Stillman.
- Stillman, William B., and A. B. Scott, assignors, by mesne assignments, to Eaton Laboratories, Inc., Norwich, N. Y. Therapeutically active substituted nitrofurans of the imino series. 2,416,233; Feb. 18.
- Stillman, William B., and A. B. Scott, assignors, by mesne assignments, to Eaton Laboratories, Inc., Norwich, N. Y. Series of nitrofuran compounds. 2,416,234; Feb. 18.
- Stillman, William B., and A. B. Scott, assignors, by mesne assignments, to Eaton Laboratories, Inc., Norwich, N. Y. 5-nitro-2-( $\omega$ -hydroxyacetofurone) semicarbazone. 2,416,235; Feb. 18.
- Stillman, William B., and A. B. Scott, assignors, by mesne assignments, to Eaton Laboratories, Inc., Norwich, N. Y. Series of nitrofuran compounds. 2,416,236; Feb. 18.
- Stillman, William B., and A. B. Scott, Norwich, N. Y., assignors, by mesne assignments, to Eaton Laboratories, Inc. 5-nitro-2-furaldehyde 5' ( $\beta$ -hydroxyethyl) semioxamazone. 2,416,237; Feb. 18.
- Stillman, William B., and A. B. Scott, Norwich, N. Y., assignors, by mesne assignments, to Eaton Laboratories, Inc. 5-nitro-2-furaldehyde semioxamazone. 2,416,238; Feb. 18.
- Stillman, William B., and A. B. Scott, Norwich, N. Y., assignors, by mesne assignments, to Eaton Laboratories, Inc. 5-nitro-2-furaldehyde thiosemicarbazone. 2,416,239; Feb. 18.
- Stillson, Gordon H., Oakmont, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Alkylation of phenols. 2,428,745; Oct. 7.
- Stillwell, William E., Jr.: *See*—  
Cataldo, John B., and Stillwell.
- Stillwell, William E., Jr., Cincinnati, Ohio, assignor to John B. Pierce Foundation, New York, N. Y. Snap switch. 2,415,448; Feb. 11.
- Stillwell, William E., Jr., Cincinnati, Ohio, assignor to John B. Pierce Foundation, New York, N. Y. Electric circuit breaker. 2,416,358; Feb. 25.
- Stine, Carl A., Van Nuys, assignor to Turco Products, Inc., Los Angeles, Calif. Spray device. 2,417,222; Mar. 11.
- Stine, Carl A., Van Nuys, assignor to Turco Products, Inc., Los Angeles, Calif. Valve actuator. 2,429,779; Oct. 28.
- Stines, Daniel E.: *See*—  
Kleiber, Carl E., Campbell, Stines, and Atkins.  
Kleiber, Carl E., Campbell, Stines, and Nelson.
- Stinson, William E., North Tonawanda, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Aircraft liquid supply means. 2,415,972; Feb. 18.
- Stinson, William E., North Tonawanda, and F. Spenceley, Niagara Falls, assignors to Bell Aircraft Corporation, Buffalo, N. Y. Aircraft control surface. 2,427,980; Sept. 23.
- Striss, Jacob D., San Diego, Calif. Coin register bank. 2,431,351; Nov. 25.
- Stischer, Morris, San Antonio, Tex. Chuck. 2,428,688; Oct. 7.
- Stites, Joseph D.: *See*—  
Wennberg, Odd, and Stites.
- Stith, Andrew H., Chicago, Ill. Dentist's measuring spoon. 2,420,505; May 13.
- Stoate, Norman P., Hampstead Garden Suburb, assignor to United Dairies Limited, London, England. Inspection apparatus for transparent vessels. 2,431,519; Nov. 25.
- Stobbe, Benjamin B., assignor to Ohio-Kentucky Manufacturing Company, Ada, Ohio. Baseball glove. 2,417,996; Mar. 25.
- Stober, Kenneth E.: *See*—  
Amos, James L., and Stober.
- Stock, Charles R., Greenwich, and V. C. Taxwood, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Means for impact testing. 2,422,317; June 17.
- Stock, George J.: *See*—  
Stock, Lewis H., and G. J.
- Stock, Harry, Minneapolis, Minn. Suction nozzle. 2,419,740; Apr. 29.
- Stock, Herman, New York, N. Y. Blade chopper. 2,418,958; Apr. 15.
- Stock, Lewis H. and G. J., Passaic, N. J. Double hole lever can puncher. 2,427,633; Sept. 16.
- Stockdale, Harry C., Ravenna, Ohio, assignor to Food Machinery Corporation, San Jose, Calif. Spray gun. 2,416,719; Mar. 4.
- Stocken, Lloyd A.: *See*—  
Peters, Rudolph A., Stocken, Thompson, Woodward, Millidge, and Gasson.
- Stocker, Clozman P., assignee, et al.: *See*—  
Huge, Henry M.
- Stocker, George: *See*—  
Adams, Comfort A., Fletcher, and Stocker.
- Stocker, Henry J., assignor to The Brown Instrument Company, Philadelphia, Pa. Temperature responsive control system for presses. 2,432,215; Dec. 9.
- Stockmar, Albert H., assignee: *See*—  
Moreland, Harry W., Jr.
- Stockton, Walter S., Columbus, Ohio. Electrical connector and insulator. 2,423,350; July 1.
- Stockwell, Fred L., Garner, Iowa. Trailer. 2,417,790; Mar. 18.
- Stoddard, Richard R., Los Angeles, Calif. Drive mechanism for ganged condensers and the like. 2,424,291; July 22.
- Stoddard, Robert J., assignor to American Hoist & Derrick Co., St. Paul, Minn. Erecting apparatus. 2,421,913; June 10.
- Stoddard, William B., Jr., assignor to The Champion Paper and Fibre Company, Hamilton, Ohio. Electrodeposition of iron. 2,420,403; May 13.
- Stoddard, Richard R., assignee: *See*—  
Holmes, Paul J.
- Stodola, Edwin K., Neptune, N. J., assignor to the Government of the United States of America, as represented by the Secretary of War. Signal comparison system. 2,418,143; Apr. 1.
- Stodola, Edwin K., Neptune, N. J., assignor to the United States of America, as represented by the Secretary of War. Linear saw-tooth generator. 2,419,606; Apr. 29.
- Stoeck, Joseph F., and A. J. Valrose, Chicago, Ill. Automobile lighting device. 2,414,343; Jan. 14.
- Stoeck, Joseph F., and A. J. Valrose, Chicago, Ill. Auto-reel light. 2,424,719; July 29.
- Stoehr, Mary, New York, N. Y. Nether garment. 2,424,720; July 29.
- Stoelting, Herman O., assignor to Line Material Company, Milwaukee, Wis. Expulsion type arrester. 2,429,533; Oct. 21.
- Stoiber, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Detective camera. 2,420,628; May 13.
- Stokes, Antony S., assignor to Ransomes & Rapier Limited, Ipswich, England. Self-propelled vehicle. 2,423,266; July 1.
- Stokes, Edwin B., Lakeland, Fla., assignor to Minerals Separation North American Corporation, New York, N. Y. Two-stage amine flotation of glass sands. 2,433,633; Dec. 30.
- Stokes, F. J., Machine Company, assignee: *See*—  
Strauss, William.
- Stokes, Francis J., Jr.: *See*—  
Florsdorf, Earl W., and Stokes.
- Stokes, George A., Dedham, Mass., assignor, by mesne assignments, to Westinghouse Electric Corporation. Fan. 2,433,795; Dec. 30.
- Stokes, John S., Huntington Valley, assignor to Stokes and Smith Company, Philadelphia, Pa. Box wrapping system. 2,425,210; Aug. 5.
- Stokes, Philip H., and L. S. Greenland, Coventry, and C. A. Pugh, Ilford; said Stokes and said Greenland assignors to H. M. Hobson Limited, and said Pugh assignor to The Plessey Company, Limited, Ilford, England. Exhaust-driven supercharger for internal combustion engines. 2,423,417; July 1.
- Stokes, Philip Harold, Stratford-on-Avon, assignor to H. M. Hobson Limited, London, England. Regulating device for controlling the supply of fuel and other liquids to internal-combustion engines. 2,422,808; June 24.
- Stokes and Smith Company, assignee: *See*—  
Bleam, Edgar W., and Albertson.  
Stokes, John S.
- Stokes, Stanley A., Pasadena, Calif. Bit. 2,425,132; Aug. 5.
- Stolberg, Sven A., assignor to Russell Electric Company, Chicago, Ill. Shaft grinding machine and the like. 2,433,717; Dec. 30.
- Stoltz, Raymond E., St. Albans, assignor to M. D. Knowlton Company, Rochester, N. Y. Method of and apparatus for winding tubes. 2,416,416; Feb. 25.
- Stone, Albert R., Anneslie, Md. Azimuth indicator. 2,425,762; Aug. 19.
- Stone, Albert R., Anneslie, Md., assignor to Gerotor May Corporation. Fastening device. 2,413,797; Jan. 7.
- Stone, Albert R., Belair, Md. Automatic gun control for tanks. 2,423,856; July 15.
- Stone, Albert R., Baltimore, Md., assignor to Carpenter-Stone, Inc., West Point, Ga. Automotive vehicle control. 2,430,789; Nov. 11.
- Stone, Axel H., Detroit, Mich. Artificial hand. 2,429,001; Oct. 14.
- Stone, Carl S., Anstead, W. Va. Automatic balanced slide for mine cars. 2,415,263; Feb. 4.
- Stone, Charles M., Beacon, assignor to The Texas Company, New York, N. Y. Production of alkadienes. 2,418,374; Apr. 1.
- Stone, Charles M., Beacon, N. Y., and K. J. Korpi, Pasadena, Calif., assignors to The Texas Company, New York, N. Y. Producing alkadienes by dehydrogenating alkenes. 2,423,418; July 1.



- Stone, Ernest V., Los Alamitos, Calif. Pneumatic control. 2,420,269; May 6.
- Stone, George A., Columbus, Ohio. Special head with guide openings for braiding machines. 2,419,741; Apr. 29.
- Stone, Guthrie B., Springwater, N. Y. Toilet tissue holder. 2,419,798; Apr. 29.
- Stone, Guy A., assignor to Taylor Instrument Companies, Rochester, N. Y. Thermometer. 2,415,309; Feb. 4.
- Stone, J., & Company, assignee: *See*—  
Trewren, John C. F.
- Stone, J., & Company Limited, assignee: *See*—  
Chilton, Alfred H.
- Stone, Joseph E., South Euclid, and E. Q. Adams, Cleveland Heights, Ohio, assignors to General Electric Company. Support wire inserting apparatus. 2,431,208; Nov. 18.
- Stone, Morris D., assignor to United Engineering and Foundry Company, Pittsburgh, Pa. Apparatus for stretcher leveling strips. 2,432,828; Dec. 16.
- Stone, Robert P., Griggstown, N. J., assignor to Radio Corporation of America. Electron discharge device of the cavity resonator type. 2,433,634; Dec. 30.
- Stone, Robert W., Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Yarn-advancing reel. 2,429,534; Oct. 21.
- Stoner, Arthur M., West Hartford, assignor to The Jacobs Manufacturing Company, Hartford, Conn. Self-centering chuck. 2,432,350; Dec. 9.
- Stoner-Mudge, Inc., assignee: *See*—  
Schneider, Wallace K.
- Stookey, Kenneth W., assignor to The Gas Machinery Company, Cleveland, Ohio. Furnace roller. 2,428,344; Sept. 30.
- Stop-Motion Devices Corporation, assignee: *See*—  
Vossen, Edward.
- Storch, Harold A., Fairview Village, assignor, by mesne assignments, to Harris Products Company, Cleveland, Ohio. Vibration dampening device. 2,425,654; Aug. 12.
- Storck, Frederick W., Arlington, and P. T. Trueman, Canton, assignors to Standard Duplicating Machines Corporation, Everett, Mass. Sheet clamping device. 2,417,572; Mar. 18.
- Storer, Richard M., Denver, Colo. Harvesting ice. 2,418,434; Apr. 1.
- Storey, Daniel H., Wausau, Wis. Paper baler. 2,423,209; July 1.
- Storey, Norman C., Miami, Fla. Hydraulically steered tractor. 2,426,652; Sept. 2.
- Storey, O. W., & Associates, assignee: *See*—  
Burgess, Charles F.  
Bussey, William H.  
Razek, Joseph.
- Storey, Oliver W., assignee: *See*—  
Bussey, William H.
- Storey, Oliver W., trustee, assignee: *See*—  
Burgess, Charles F.  
Razek, Joseph.
- Storkline Furniture Corporation, assignee: *See*—  
Gresham, William F.
- Storm, André W., Sydney, New South Wales, Australia, assignor to Hartford National Bank & Trust Company, Hartford, Conn., as trustee. Apparatus for measuring relative displacement or the thicknesses of materials. 2,431,841; Dec. 2.
- Storm Manufacturing Co., Inc., assignee: *See*—  
Olson, Olov J. E.
- Storm-Vulcan Manufacturing Company, Inc., assignee: *See*—  
Johnson, Raymond A.
- Storrie, William, Rumford, R. I., assignor to Apco Mossberg Company. Ratchet torque screw driver. 2,417,402; Mar. 11.
- Storrs, Robert S.: *See*—  
Falk, Ernest C., and Storrs.
- Storsand, Bjarne, Zurich, assignor to Maschinenfabrik Oerlikon, Zurich-Oerlikon, Switzerland. Single-anode mercury arc rectifier. 2,414,565; Jan. 21.
- Stossel, Ernest, New York, N. Y. Producing oxidized hydrocarbon waxes. 2,424,671; July 29.
- Stossel, Ernest, and E. Zerner, assignors to The Mathieson Alkali Works, Inc., New York, N. Y. Chlorite bleaching of wax and oil esters. 2,431,842; Dec. 2.
- Stott, Harold B., Glen Olden, Pa., assignor to Radio Corporation of America. Ultrahigh-frequency receiving system. 2,428,300; Sept. 30.
- Stottrup, Helge, assignee, et al.: *See*—  
Stottrup, Svend H.
- Stottrup, Sigurd, assignee, et al.: *See*—  
Stottrup, Svend H.
- Stottrup, Svend H., assignor of one-third to S. Stottrup and one-third to H. Stottrup, Waterloo, Iowa. Folding utility cart. 2,422,862; June 24.
- Stotz, Carl C., Garden City, N. Y., assignor to Sperry Gyroscope Company, Inc. Frequency control system. 2,425,013; Aug. 5.
- Stout, Frederick S., Ardmore, Pa., and J. F. Amelunxen, New Castle, assignors to F. F. Slocumb Corporation, Wilmington, Del. Ironing machine. 2,418,913; Apr. 15.
- Stout, Walter W., Turney, Mo. Animal trap. 2,417,891; Mar. 25.
- Stover, Franklin R., Chicago, Ill. Finishing of wood. 2,431,148; Nov. 18.
- Stover, Jasper S., De Queen, Ark. Automatic garage door. 2,424,721; July 29.
- Stover, Ralph, Oelwein, Iowa. Clamp for gauge housings. 2,425,444; Aug. 12.
- Stowell, Ralph E., Wellington, Tex. Utility rack. 2,433,247; Dec. 23.
- Strachovsky, Nikita B., assignor to Lord Manufacturing Company, Erie, Pa. Resilient mounting. 2,420,452; May 13.
- Straessli, Emilio, Sao Paulo, Brazil. Lock structure. 2,415,612; Feb. 11.
- Straeten, Charles L.: *See*—  
McKee, Harry H., Dziedzic, and Straeten.
- Strain, Daniel E.: *See*—  
McAlevy, Ambrose, Strain, and Chance.
- Strain, Franklin, Barberton, Ohio, assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Unsaturated esters and polymers thereof. 2,414,400; Jan. 14.
- Strain, William H., and J. B. Dickey, assignors to Eastman Kodak Company, Rochester, N. Y. Azo dyes from 3-carbalkoxyxyprazolones. 2,430,484; Nov. 11.
- Straley, James M., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Phloroglucide containing diazo photoprinting material. 2,432,593; Dec. 16.
- Stranahan, Willard W., assignor to L. B. Smith, Incorporated, Camp Hill, Pa. Upward current hydraulic apparatus for separating materials of different specific gravities. 2,424,517; July 22.
- Strand, Harold D., St. Paul, Minn. Trestle clamp. 2,423,735; July 8.
- Strandberg, Charles H., assignor to Boeing Aircraft Company, Seattle, Wash. Nose wheel. 2,421,914; June 10.
- Strandlund, Carl G., Oak Park, Ill., assignor to Chicago Vitreous Enamel Product Company. Architectural panel construction. 2,416,240; Feb. 18.
- Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Wheel mounting. 2,415,224; Feb. 4.
- Strang, Harold E., Ardmore, and A. H. Powell, Yeadon, Pa., assignors to General Electric Company. Circuit interrupting device. 2,421,658; June 3.
- Strang, John M., Glasgow, W. 3, assignor to Barr & Stroud, Limited, Glasgow, Scotland. Lenses for optical purposes. 2,417,330; Mar. 11.
- Strang, John M., assignor to Barr & Stroud, Limited, Glasgow, Scotland. Binocular range estimating periscope operating on the coincidence principle. 2,420,506; May 13.
- Strang, John M., assignor to Barr & Stroud, Limited, Glasgow, Scotland. Optical system for periscopes. 2,423,267; July 1.
- Strang, Leslie C., Sunbury-on-Thames, assignor, by mesne assignments, to Anglo-Iranian Oil Company Limited, London, England. Production of hydropolymers. 2,422,991; June 24.
- Strassburg, Morris J., Bridgeport, Conn. Garment hanger. 2,413,798; Jan. 7.
- Stratfield Company, The, assignee: *See*—  
Galla, Joseph J.
- Stratford, Charles W., J. A. Altshuler, and D. H. Putney, assignors to Stratford Development Corporation, Kansas City, Mo. Performing catalytic vapor phase reactions. 2,418,857; Apr. 15.
- Stratford, Charles W., and D. H. Putney, assignors to Stratford Development Corporation, Kansas City, Mo. Catalytically reacting gaseous material. 2,419,097; Apr. 15.
- Stratford, Charles W., J. A. Altshuler, and D. H. Putney, assignors to Stratford Development Corporation, Kansas City, Mo. Contacting gases and vapors with cyclically moving catalyst. 2,419,098; Apr. 15.
- Stratford Development Corporation, assignee: *See*—  
Putney, David H.  
Stratford, Charles W., Altshuler, and Putney.  
Stratford, Charles W., and Putney.
- Stratford, Reginald K., Corunna, and O. S. Pokorny, Sarnia, Ontario, Canada, assignors to Standard Oil Development Company. Treating a solvent-extracted petroleum distillate with clay and lime. 2,420,108; May 6.
- Strathmore Paper Company, assignee: *See*—  
Davidson, Paul B.
- Stratton, Frank E.: *See*—  
Seely, Thomas H., and Stratton.
- Stratton, Frank E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Signaling system for fastening-inserting machines. 2,423,953; July 15.
- Stratton, George B., assignor to Hooker Electrochemical Company, Niagara Falls, N. Y. Production of hexachlorethane. 2,420,801; May 20.
- Stratton, Harry C., assignor to Stratton Specialties, Malden, Mass. Portable apparatus for therapeutic irrigation. 2,420,507; May 13.
- Stratton, Jerry L., Schenectady, N. Y., assignor to General Electric Company. Electronic control system for dynamoelectric machines. 2,430,310; Nov. 4.
- Stratton, Lloyd O., Denver, Colo. Ballast router. 2,416,241; Feb. 18.
- Stratton Specialties, assignee: *See*—  
Stratton, Harry C.
- Straub, Fritz, Kaiseraugst, and J. Brassel, and P. Pieth, Basel, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Disazo dyes from dihydroxy benzidine. 2,424,066; July 15.



- Straub, Fritz, Kaiseraugst, and J. Brassel and P. Pieth, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Disazo dyes from dihydroxy benzidines. 2,426,977; Sept. 9.
- Straub, Fritz, Kaiseraugst, and J. Brassel, and P. Pieth, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Disazo dyes from tetrazotized dihydroxy benzidines. 2,427,537; Sept. 16.
- Straub, Fritz, Kaiseraugst, J. Brassel and P. Pieth, assignors to the Swiss firm of Society of Chemical Industry in Basle, Basel, Switzerland. Tris and polyazo dyes from tetrazotized 0:0' dihydroxybenzidine. 2,428,130; Sept. 30.
- Straubel, Clarence W., and J. S. Holbrook, assignors to The General Fireproofing Company, Youngstown, Ohio. Tab for guide cards. 2,420,021; May 6.
- Straubel, Clarence W., and J. S. Holbrook, assignors to The General Fireproofing Company, Youngstown, Ohio. Lug for guide cards. 2,422,935; June 24.
- Strauss, William, Philadelphia, Pa., assignor to F. J. Stokes Machine Company. Double-checking molding press. 2,423,268; July 1.
- Straw, Samuel A., Pawtucket, R. I., assignor to American Textile Company, Inc. Control guide for yarn winders. 2,426,473; Aug. 26.
- Stream, Ralph M., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Traversing mechanism. 2,433,304; Dec. 23.
- Strebe, Frank C., and W. L. Comyns, Los Angeles, Calif. Radio reception means. 2,422,374; June 17.
- Strehlow, Walter F., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Variable wheel tread vehicle. 2,417,139; Mar. 11.
- Streich, Paul B., Maywood, Ill., assignor to Charles Bruning Company, Inc., New York, N. Y. Photo-printing machine. 2,431,520; Nov. 25.
- Streicher, August M., executor: *See*—  
Bohnengel, Andrew J.
- Streicker, Seymour F., and E. W. Malek, Chicago, Ill.; said Malek assignor to said Streicker. Boat construction. 2,424,672; July 29.
- Streid, Dale D., West Lynn, Mass., assignor to General Electric Company. Cooling means for gas turbine wheels. 2,414,840; Jan. 28.
- Streid, Dale D., West Lynn, Mass., assignor to General Electric Company. Cooling means for gas turbine wheels. 2,414,841; Jan. 28.
- Streid, Dale D., Saugus, Mass., assignor to General Electric Company. Internal-combustion turbine power plant. 2,432,359; Dec. 9.
- Streight, Harvey R. L.: *See*—  
McHaffie, Ivan R., and Streight.
- Stremple, Edward L., J. E. Beggs, and H. W. A. Chalberg, Scotia, N. Y., assignors to General Electric Company. Concentric line lamp for measuring high-frequency power. 2,427,752; Sept. 23.
- Stretton, Henry J., assignor to Fusarc Limited, Gateshead-on-Tyne, England. Welding electrode. 2,432,048; Dec. 2.
- Stretz, Frank L., assignor to R. O. Meyer, Kansas City, Mo. Holding appliance for nursing bottles. 2,428,724; Oct. 7.
- Strezynski, George J., Chicago, Ill., assignor to The De Laval Separator Company, New York, N. Y. Apparatus for use in the centrifugal separation of serum from cheese constituents. 2,432,829; Dec. 16.
- Stribley, Arthur F., Jr.: *See*—  
Farkas, Adalbert, and Stribley.
- Strickland, Harold A., Jr.: *See*—  
Adams, Comfort A., and Strickland.
- Strickland, Harold A., Jr., Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa. Electromagnetic means for feeding a ferro-magnetic charge to a furnace. 2,415,376; Feb. 4.
- Strickland, Harold A., Jr., Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa. Induction heating coil, energizing means therefor, and work-release means. 2,418,056; Mar. 25.
- Strickland, Harold A., Jr., Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa. Inductive heating unit comprising coaxially arranged conductors. 2,418,675; Apr. 8.
- Strickland, Harold A., Jr., Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa. Support for induction heating coils. 2,423,054; June 24.
- Strickland, Harold A., Jr., Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa. Connector block. 2,424,197; July 15.
- Strickland, Harold A., Jr., Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa. Power factor indicating apparatus. 2,425,133; Aug. 5.
- Strickland, Harold A., Jr., Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa. Separating magnetic iron oxide scale from an iron-containing metal. 2,425,134; Aug. 5.
- Strickland, Harold A., Jr., Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa. Rotary seal. 2,425,211; Aug. 5.
- Strickland, Harold A., Jr., Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa. Adjustable support for induction coils. 2,427,332; Sept. 9.
- Strickland, Leslie C.: *See*—  
Sterick, Harrison D., and Strickland.
- Strickland, Merton H., St. Louis, Mo. Recording machine. 2,415,225; Feb. 4.
- Strickler, Albert, assignor to The Hersch-Razel Research Foundation, Philadelphia, Pa. Activated iodine therapeutic agent. 2,425,285; Aug. 5.
- Strickler, John F., Jr.: *See*—  
Stanley, Robert M., and Strickler.
- Strid, Sven J., assignor to T & S Corporation, Chicago, Ill. Cotter pin spreader. 2,431,664; Nov. 25.
- Strike, George N., Los Angeles, Calif. Valve. 2,431,593; Nov. 25.
- Strike, Louis N., Salt Lake City, Utah. Rotary buck pad. 2,430,195; Nov. 4.
- Stritter, Karl A., Nahant, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Manufacture of shoes. 2,414,910; Jan. 28.
- Stritter, Karl A., Nahant, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Seam and making the same. 2,418,204; Apr. 1.
- Stritter, Karl A., Nahant, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Making shoes. 2,425,445; Aug. 12.
- Stritter, Karl A., Nahant, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Sewing machine. 2,430,087; Nov. 4.
- Strobel, Charles K.: *See*—  
Eskin, Samuel G., and Strobel.
- Strobel, Charles K., Pittsburgh, assignor to Robertshaw Thermostat Company, Youngwood, Pa. Safety control system for fuel burners. 2,417,667; Mar. 18.
- Strobel, Charles K., Pittsburgh, assignor to Robertshaw Thermostat Company, Youngwood, Pa. Safety and ignition control system for fuel burners. 2,430,373; Nov. 4.
- Strobl, John A., Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va. Bottle carrier. 2,432,351; Dec. 9.
- Strohecker, Henry R., and H. T. Hall, assignors to The Youngstown Welding & Engineering Co., Youngstown, Ohio. Jet for tanks and the like. 2,424,722; July 29.
- Strom, Clifford M., Chicago, Ill. Electric fan. 2,420,209; May 6.
- Strom, Ernest, St. Paul, Minn. Hydraulic jack. 2,417,956; Mar. 25.
- Stromberg-Carlson Company, assignee: *See*—  
Goldberg, Harold, and De Mers.  
Green, Harry J., Jr., and Ciambrone.  
Powell, Winfred T.  
Wilson, Edward S., and Schnepf.
- Stromberg, Eleroy L., U. S. Navy. Depth perception apparatus with means for dropping target elements at different distances from the observer. 2,425,014; Aug. 5.
- Strong, Charles W., Wynnewood, Pa. Work-holding attachment for surface grinders. 2,428,248; Sept. 30.
- Strong, John, Hyde, England. Welding head shield or helmet. 2,425,690; Aug. 12.
- Strong, Robert M., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric motor control for series-parallel operation. 2,419,178; Apr. 15.
- Stroschein, Edgar A.: *See*—  
Crawford, Frederick G., and Stroschein.
- Stross, Fred H.: *See*—  
Anderson, Alvin P., and Stross.
- Stroth, Lowry B., Wellston, Ohio. Windshield visor. 2,422,863; June 24.
- Strother, Fred P., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Stabilizing gyro devices. 2,417,573; Mar. 18.
- Strother, John, Rome, N. Y. Safety drill. 2,422,755; June 24.
- Strotz, Charles S., Seattle, Wash. Detachable support for U-beam screw clamps. 2,432,352; Dec. 9.
- Stroud, Charles E., Ford City, and H. Marini, New Kensington, Pa., assignors to Pittsburgh Plate Glass Company. Heated window panel. 2,416,778; Mar. 4.
- Stroup, Donald H., assignor to M. McL. Stroup, Lakewood, Ohio. Indicator for airplane engines. 2,426,955; Sept. 2.
- Stroup, Mary McL., assignee: *See*—  
Stroup, Donald H.
- Strout, Basil A., Farmingdale, Maine, assignor to United Shoe Machinery Corporation, Flemington, N. J. Dieing-out machine. 2,426,287; Aug. 26.
- Struk, John, and R. W. Good, assignors to Murray Manufacturing Corporation, Brooklyn, N. Y. Electric resistance welding. 2,422,756; June 24.
- Strumor, Mathew A., Brooklyn, N. Y. Musical and animated toy pipe. 2,425,212; Aug. 5.
- Strumor, Mathew A., Brooklyn, N. Y. Animated whistle. 2,430,088; Nov. 4.
- Strutt, Maximilian J. O.: *See*—  
Van Hofweegen, Johannes M., and Strutt.
- Strutt, Maximilian J. O., and A. Van Der Ziel, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustees. Ultra-short wave detector. 2,414,279; Jan. 14.
- Strutt, Maximilian J. O., and A. van der Ziel, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Oscillation generator including a cathode-ray tube. 2,418,735; Apr. 8.



- Strutt, Maximiliaan J. O., and A. van der Ziel, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn. Cathode ray tube for generating oscillations. 2,420,846; May 20.
- Strutt, Maximiliaan J. O., A. van der Ziel, and G. H. P. Alma, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn. Mixing circuits comprising discharge tubes. 2,430,835; Nov. 11.
- Struve, William S., Carneys Point, N. J., assignor to the United States of America, as represented by the Atomic Energy Commission. Fluorination of perchlorohexatriene. 2,431,969; Dec. 2.
- Stryker, Harvey I., Carney's Point, N. J., and R. O. Heuse, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Recovering triaryl-methane dyestuffs. 2,422,445; June 17.
- Stryker, Homer H., Kalamazoo, Mich. Plaster cast cutter. 2,427,580; Sept. 16.
- Stuart, Alfred A., Jr., Hasbrouck Heights, assignor to Bendix Aviation Corporation, Teterboro, N. J. De-gaussing system. 2,421,583; June 3.
- Stuart, Alfred A., Jr., Hasbrouck Heights, assignor to Bendix Aviation Corporation, Bendix, N. J. Sonic direction finding. 2,422,446; June 17.
- Stuart, Archibald P.: See—  
Johnson, Herbert L., Voelker, and Stuart.
- Stuart, Charles J., Winchester, assignor to Wellman Company, Medford, Mass. Stop and synchronized drive mechanism. 2,430,964; Nov. 18.
- Stuart, Clarence C., assignor to Traffic Transport Engineering, Inc., Dearborn, Mich. Tail gate assembly. 2,424,862; July 29.
- Stuart, Elizabeth R. B., assignee: See—  
Wilson, Allen B., and Stuart.
- Stuart, Ethan A., Wakefield, assignor to Haley Cate Company, Inc., Everett, Mass. Laminated elastic material for footwear, making same and improved footwear made thereby. 2,424,777; July 29.
- Stuart, G. A., assignee, et al.: See—  
Bruen, George C.
- Stuart, Henry B., assignor to Whitin Machine Works, Whitinsville, Mass. Ring for spinning and twisting yarn. 2,433,580; Dec. 30.
- Stuart, John C. K., and A. H. Vanderburgh, assignors to Insulation Products, Limited, Toronto, Ontario, Canada. Apparatus for puffing slag. 2,428,249; Sept. 30.
- Stuart, Kenneth E., assignor to Hooker Electrochemical Company, Niagara Falls, N. Y. Electrolytic alkali halogen cell. 2,430,374; Nov. 4.
- Stuart, Kimberly: See—  
Wilson, Allen B., and Stuart.
- Stuart, Raymond H., Cleveland, Ohio, assignor to General Electric Company. Coil electrode. 2,424,518; July 22.
- Stuber, Bernard K., Detroit, Mich. Inserted blade cutter. 2,423,419; July 1.
- Stubnitz-Greene Spring Corporation, assignee: See—  
Caughy, John M.
- Stucker, Joseph B., Oak Park, assignor to The Pure Oil Company, Chicago, Ill. Lubricant. Re. 22,911; Sept. 2.
- Stuckwisch, Clarence G.: See—  
Dickey, Joseph B., and Stuckwisch.
- Studebaker Corporation, The, assignee: See—  
Hardig, Eugene J.  
Scogland, Charles A.
- Stuebner, Ruben, Arcadia, Calif. Motorized power unit. 2,429,378; Oct. 21.
- Stuer, Joseph, Lawrence, Mass. Stationary magazine loom. 2,418,101; Mar. 25.
- Stuer, Joseph, Lawrence, Mass. Loom transfer mechanism. 2,418,324; Apr. 1.
- Stuft, Paul C.: See—  
Athy, Lyman C., and Stuft.
- Stull, John S.: See—  
Juvinall, James W., and Stull.
- Stull, John S., Chicago, Ill. Self-threading connector for articles. 2,416,964; Mar. 4.
- Stull, John S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Article forming apparatus. 2,429,002. Oct. 14.
- Stumpf, James C., assignee: See—  
Stumpf, Tedi.
- Stumpf, Tedi, now by judicial change of name T. B. Craig, assignor of one-half to J. C. Stumpf, now by judicial change of name J. Craig, Los Angeles, Calif. Garment. 2,418,582; Apr. 8.
- Stupakoff Ceramic & Manufacturing Co., assignee: See—  
Stark, Rawson E.
- Stupakoff Ceramic Manufacturing Co., assignee: See—  
Stupakoff, Semon H.  
Stupakoff, Semon H., and Stark.
- Stupakoff, Semon H., assignor to Stupakoff Ceramic Manufacturing Co., Latrobe, Pa. High temperature electrically-heated furnace. 2,417,953; Mar. 25.
- Stupakoff, Semon H., Latrobe, and R. E. Stark, Greensburg, assignors to Stupakoff Ceramic & Manufacturing Co., Latrobe, Pa. Molding ceramic articles. 2,422,809; June 24.
- Stupell, Leo K., New York, N. Y. Cigarette case or the like. 2,429,495; Oct. 21.
- Sturgis, Bernard M., Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Stable dispersions of aromatic amines and preparing them. 2,432,830; Dec. 16.
- Sturgis, Bernard M., Pitman, N. J., and A. A. Baum, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Stable dispersions of aromatic amines. 2,432,831; Dec. 16.
- Sturrock, James, Cleveland Heights, Ohio, assignor to The Rotor Tool Company. Fluid reversing valve arrangement for rotary tool motors of the vane type. 2,428,726; Oct. 7.
- Sturrock, Murray G., and T. Lawe, assignors to Dominion Tar & Chemical Company Limited, Montreal, Quebec, Canada. Production of styrenes and other products. 2,420,688; May 20.
- Sturrock, Murray G., and T. Lawe, assignors to Dominion Tar & Chemical Company Limited, Montreal, Quebec, Canada. Producing nuclear substituted dimethyl styrenes from asymmetric dixylyl ethanes. 2,420,689; May 20.
- Sturrock, Murray G., and T. Lawe, assignors to Dominion Tar & Chemical Company Limited, Montreal, Quebec, Canada. Production of aromatic compounds. 2,422,318; June 17.
- Sturtevant, B. F., Company, assignee: See—  
Hemming, Harold.  
Keep, Charles R.  
Lincoln, Roland L.  
Morton, Harry E.  
Palmer, Robert T.  
Salt, Loyd B., and Zaino.
- Stutsman, Paul W., Needham, assignor, by mesne assignments, to Raytheon Manufacturing Company, Newton, Mass. Electrical gaseous discharge device having constant starting characteristics. 2,419,236; Apr. 22.
- Stutsman, Paul W., Needham, assignor, by mesne assignments, to Raytheon Manufacturing Company, Newton, Mass. Electron discharge device. 2,428,048; Sept. 30.
- Styes, Fred J., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Dimpling machine. 2,418,736; Apr. 8.
- Styri, Haakon: See—  
Ball, Frederick S., Palmgren, and Styri.
- Subart, William: See—  
Stapley, Stephen G., and Subart.
- Subber, Leonard S., Philadelphia, Pa., assignor to The Sheffield Corporation, Dayton, Ohio. Pneumatic gauging device. 2,431,087; Nov. 18.
- Submarine Signal Company, assignee: See—  
Benioff, Hugo.  
Fay, Harold J. W.  
Grabau, William C.  
Harrison, Bertram M.  
Hart, Harold M.  
Peterson, Robert E.  
Smith, Edward W.  
Turner, Edwin E., Jr.  
Williams, Robert L.
- Submerged Combustion Company of America, Inc., assignee: See—  
See, Theodore S., Tegarden, Williams, and See.
- Succop, Clarence F., assignee: See—  
Knaak, Carl L.
- Sucek, Robert, Grosse Pointe, Mich. Universal joint. 2,427,237; Sept. 9.
- Sucek, Robert, Grosse Pointe, Mich. Universal joint. 2,432,216; Dec. 9.
- Sudholz, Louis H.: See—  
Roehner, Theodore G., and Sudholz.
- Sudholz, Louis H., and C. D. Flemming, New York, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated. Cutting oil composition. 2,429,198; Oct. 14.
- Suftko, Stanley, Chicago, Ill. Glove stretcher. 2,431,209; Nov. 18.
- Sugar Creek Creamery Company, assignee, et al.: See—  
Hormeman, H. C., Hussong, Quam, and Hammer.
- Sugarman, Nathan, assignor to The Standard Register Company, Dayton, Ohio. Manufacture of carbon transfer ink. 2,426,248; Aug. 26.
- Suiter, Harold G., Baltimore, Md. Article carrier. 2,425,135; Aug. 5.
- Suits, Chauncey G.: See—  
Fiske, Milan D., and Suits.
- Suits, Chauncey G., Schenectady, N. Y., assignor to General Electric Company. Current limiting fuse. 2,414,344; Jan. 14.
- Sukumlyn, Thomas W., Los Angeles, Calif. Forming optical wedges on lenses and reflectors. 2,433,635; Dec. 30.
- Sulak, Harold L., Seattle, Wash. Venting cover for cooking utensils. 2,415,613; Feb. 11.
- Sullivan, David J., Fairfield, Conn., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coated fabric. 2,431,001; Nov. 18.
- Sullivan, Frances J., Los Angeles, Calif. Gravity projector. 2,420,760; May 20.
- Sullivan, George H.: See—  
Boggs, Jesse K., and Sullivan.
- Sullivan, James E., assignor to United Aircraft Products, Inc., Dayton, Ohio. Oil cooler. 2,432,253; Dec. 9.
- Sullivan, Roy W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of calcium sulfate. 2,413,799; Jan. 7.
- Sullivan, Thomas, assignee: See—  
Schroeder, Frederick B.
- Sullivan, William B., Cleona, and J. W. Juppenlatz, assignors to Lebanon Steel Foundry, Lebanon, Pa. Acid resistant alloy. 2,423,665; July 8.



- Suloff, Paul D., assignor to Wingfoot Corporation, Akron, Ohio. Belt. 2,425,575; Aug. 12.
- Sulphite Products Corporation, assignee: *See*—  
Brauns, Friedrich E., and Fearl.  
Lewis, Harry F., and Pearl.  
Pearl, Irwin A.
- Sulzer Freres, Societe Anonyme, assignee: *See*—  
Kilchenmann, Walter.  
Lieberherr, Hans.  
Moessinger, Albert.  
Schläpfer, Oscar.  
Schläpfer, Oskar.  
Schmidt, Eugen.  
Steiger Jacques.  
Steiner, Hans.  
Traupel, Walter.
- Sulzer, John H.: *See*—  
Kirsch, William A., and Sulzer.
- Summerbell, William, Washington, D. C. Subcaliber auxiliary barrel and extractor. 2,423,471; July 8.
- Summerbell, William, Washington, D. C., L. J. Rhein, Aberdeen, Md., and O. D. Hoopes, Arlington, Va. Obturator for guns. 2,428,398; Oct. 7.
- Summerfield, Martin: *See*—  
Malina, Frank J., and Summerfield.
- Summers, Caleb E., Orchard Lake, Mich. Pressure and temperature responsive fuel metering and injection pump. 2,414,617; Jan. 21.
- Summers, Darrell, Pana, Ill. Article turner. 2,427,933; Sept. 23.
- Summers, Otto M., Mount Gilead, Ohio, assignor to H-P-M Development Corporation. Variable stroke hand pump. 2,423,162; July 1.
- Summers, Thomas O., Jr., Los Angeles, Calif., assignor to Lear, Incorporated, Grand Rapids, Mich. Gyroscope caging device. 2,422,267; June 17.
- Summers, Thomas O., Jr., Los Angeles, Calif. Gyroscopic attitude indicating instrument. 2,423,269; July 1.
- Summers, Thomas O., Jr., Los Angeles, Calif. Gyroscopic control apparatus. 2,423,270; July 1.
- Summerville, Donald V., Fort Erie, Ontario, Canada, and H. W. Naulty, East Aurora, N. Y., assignors, by mesne assignments, to Cornell Research Foundation, Inc. Diagnostic instrument. 2,415,310; Feb. 4.
- Sumner, Thomas, Salt Lake City, Utah. Towelling fabric. 2,418,676; Apr. 8.
- Sun Chemical Corporation, assignee: *See*—  
Lipton, Morris.  
Popkin, Alexander H.  
Schmutzler, Alfred F.  
Wekeman, Stephen N.  
Young, Wayne W.
- Sun-Kraft, Inc., assignee: *See*—  
Atkins, Carl E., and Furedy.
- Sun, Kuan-Han, assignor to Eastman Kodak Company, Rochester, N. Y. Fluogermanate glass. 2,425,403; Aug. 12.
- Sun, Kuan-Han, assignor to Eastman Kodak Company, Rochester, N. Y. Titanium fluophosphate glass. 2,430,539; Nov. 11.
- Sun, Kuan-Han, and M. L. Huggins, assignors to Eastman Kodak Company, Rochester, N. Y. Beryllium boro-phosphate glass. 2,415,661; Feb. 11.
- Sun, Kuan-Han, and T. E. Callear, assignors to Eastman Kodak Company, Rochester, N. Y. Cadmium-lanthanum-borate glass. 2,430,540; Nov. 11.
- Sun Oil Company, assignee: *See*—  
Bagsar, Aaron B.  
Barcus, William H.  
Carter, Philip L., and Coppock.  
Coppock, Walter J.  
Grace, Edward J., Jr.  
Haseltine, Nathaniel G., and Bock.  
Johnson, Herbert L., Voelker, and Stuart.  
Kennedy, Robert M., and Hetzel.  
McCorquodale, Wilmer E., and Magill.  
McCorquodale, Wilmer E., Jr., Magill, and Hagy.  
Thober, Herbert C., and Bowers.  
Vose, Richard S.  
Wright, Wortley A.
- Sunbeam Corporation, assignee: *See*—  
Koci, Ludik J.
- Sunbury, Herbert E.: *See*—  
Foster, Boutwell H., and Sunbury.
- Sundbergh, Arne O., Lulea, Sweden. Ground boring device. 2,416,501; Feb. 25.
- Sundgren, Stig P. O., assignor to Svenska Aktiebolaget Gasaccumulator, Lidings, Sweden. Fire protective device in film projectors. 2,426,324; Aug. 26.
- Sundgren, Stig P. O., and K. E. U. Selander, assignors to Svenska Aktiebolaget Gasaccumulator, Lidings, Sweden. Swingable lens mount assembly for motion-picture projectors. 2,428,858; Oct. 14.
- Sunheim, Harry G., Jr., Chicago, Ill. Divination box. 2,425,965; Aug. 19.
- Sundnes, Morton: *See*—  
Stevens, Paul S., and Sundnes.
- Sundstrand, Oscar J., West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y. Selective printing and punching machine. 2,431,714; Dec. 2.
- Sundstrom, Harold C., Chicago, Ill. Clothes hanger attachment. 2,416,779; Mar. 4.
- Sunnen, Joseph, Clayton, Mo. Honing device. 2,421,470; June 3.
- Sunstein, David E., Elkins Park, assignor to Philco Corporation, Philadelphia, Pa. Magnetic wire telegraphophone system. 2,425,213; Aug. 5.
- Super Mold Corporation of California, assignee: *See*—  
Glynn, Edwin A.
- Super, Ralph K.: *See*—  
Buckendale, Lawrence R., and Super.
- Super Tool Company, assignee: *See*—  
Brocker, Emil.  
Steffes, Milton J.
- Superba Cravats, assignee: *See*—  
Muhlhauser, Frederick P.
- Superba Manufacturing Co., Inc., assignee: *See*—  
Katz, Julius, and Majoros.
- Superdraulic Corporation, assignee: *See*—  
Hoffer, James F.
- Superheater Company, The, assignee: *See*—  
Ostermann, Rudolf M.
- Superior Industries, Incorporated, assignee: *See*—  
Weyant, Romer G.
- Superior Steel Corporation, assignee: *See*—  
Keene, Walter L.  
Keene, Walter L., and Carlson.
- Sure-Fit Products Company, assignee: *See*—  
Krasnov, Joseph A., and Kuller.
- Surerus, Victor M., assignor to Inland Steel Company, Chicago, Ill. Producing forming rolls for use in rolling mills and the like. 2,428,301; Sept. 30.
- Surface Combustion Corporation, assignee: *See*—  
Kelley, Gilbert A.  
Lehrer, William.
- Surino, Alphonse: *See*—  
Beveridge, James B., Kehoe, and Surino.
- Surman, Victor L. R., assignee, et al.: *See*—  
Rhodes, Kermit H.
- Surmatis, Joseph D.: *See*—  
Ofner, Alfred, and Surmatis.
- Surmatis, Joseph D., Nutley, and A. Ofner, Montclair, assignors to Hoffman-La Roche Inc., Nutley, N. J. Synthesis of saccharosonic acids and salts. 2,432,439; Dec. 9.
- Surrey, Alexander R., Albany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Alkylamino-benzamides. 2,429,535; Oct. 21.
- Sussenbach, Paul: *See*—  
Ferguson, William C., and Sussenbach.
- Suter, Chester M., and A. W. Ruddy, Albany, assignors, by mesne assignments, to Winthrop-Stearns Inc., New York, N. Y. Preparing 1-(dihydroxyphenyl)-2-amino butanol-1 and intermediates. 2,431,285; Nov. 18.
- Sutherland, James R., New Lebanon, N. Y., assignor to General Electric Company. Transformer. 2,421,298; May 27.
- Sutherland Paper Company, assignee: *See*—  
Buttery, Kenneth T.  
Sherwood, Albert L.
- Sutherland, Thomas S., Aberdeen, Scotland. Atomiser. 2,421,359; May 27.
- Sutliff, Carleton B.: *See*—  
Hearn, Richard B., and Sutliff.
- Sutphin, Edward F., Yardley, Pa. Tubular latch. 2,415,264; Feb. 4.
- Sutter, Erwin L., Sharon, assignor to Tobe Deutschmann Corporation, Canton, Mass. Rotary conveyor for condensers. 2,429,496; Oct. 21.
- Sutter, Paul, Binningen, and W. Kern, Sissach, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Acylamino-anthraquinone vat dyestuffs. 2,420,453; May 13.
- Suttin, Frank, Los Angeles, Calif. Wrist watch regulator. 2,414,618; Jan. 21.
- Sutton, Frank, Cwmbran, England. Fluid controlling valve. 2,424,210; July 15.
- Suton, Frank A., Onchiota, N. Y. Penetrating prong buckle. 2,419,662; Apr. 29.
- Sutton, Robert W., and A. H. Winkler, assignors to Bendix Aviation Corporation, South Bend, Ind. Carburetor. 2,420,917; May 20.
- Sutton, William J., and B. C. Simpson, assignors to Wilson Supply Company, Houston, Tex. Seal for pipe joints. 2,421,659; June 3.
- Suydam, Joseph W., Blue Point, N. Y. Electric motor. 2,418,607; Apr. 8.
- Sveda, Michael: *See*—  
Salzenberg, Walter H., and Sveda.
- Sveda, Michael, Clifton, N. J. Combined space heater and cook stove. 2,428,183; Sept. 30.
- Svenska Aktiebolaget Bromsregulator, assignee: *See*—  
Browall, Bert H.  
Carlbon, Axel G. H.
- Svenska Aktiebolaget Gasaccumulator, assignee: *See*—  
Alexandersson, Harald V., and Hagren.
- Sundgren, Stig P. O., and Selander.
- Svenska Cellulosa Aktiebolaget, assignee: *See*—  
Iström, Johan.
- Svensson, Leroy, assignor to Jamestown Metal Equipment Company, Inc., Jamestown, N. Y. Cabinet having interconnected closure and support for an ironer. 2,420,508; May 13.
- Sverdrup, Edward F., Buffalo, N. Y., and J. C. Elgin, Princeton, N. J., assignors to U. S. Rubber Reclaiming Company, Inc., Buffalo, N. Y. Reclaiming rubber. 2,415,449; Feb. 11.



- Swaab, Maurice, New York, N. Y. Helicopter having means for adjusting the center of gravity and the lift rotor axis thereof. 2,428,475; Oct. 7.
- Swain, Earl H., New Hartford, assignor to Utica Willowvale Bleaching Company, Utica, N. Y. Sheet tearing machine. 2,427,515; Sept. 16.
- Swain, Frank E., Ewell, assignor of one-half to D. Darby, Northwood, Middlesex, England. Flexible pipe. 2,424,863; July 29.
- Swain, Robert C., Riverside, and P. Adams, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Cellulose acetate coating compositions. 2,426,379; Aug. 26.
- Swain, Roy E., Huntington Park, Calif. Perforated face display. 2,429,379; Oct. 21.
- Swain, Saint E.: *See*—Haynes, Cecil J., and Swain.
- Swallow, Joseph L., Lombard, assignor to Wells-Gardner & Co., Chicago, Ill. Affixing characters to transparent drums. 2,421,764; June 10.
- Swallow, William D., deceased, assignor of two-thirds to G. S. and H. E. Pelton, Los Angeles, Calif.; G. S. Roberts, executor. Apparatus for settling suspended solids from liquid mediums. 2,424,259; July 22.
- Swan, Carl W., Skokie, assignor to Teletype Corporation, Chicago, Ill. Receiver transmitter. 2,419,799; Apr. 29.
- Swan, Kenneth C., Portland, Oreg., and N. G. White, Cranford, N. J. Cholinlike compounds. 2,432,049; Dec. 2.
- Swaney, Miller W.: *See*—Morrell, Charles E., and Swaney.
- Swann, Edward R., Floral Park, N. Y., assignor to The Hoover Company, North Canton, Ohio. Drip fed ice cube making and storing arrangement. 2,429,851; Oct. 28.
- Swann, James S., Homewood, assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Hatch construction for railway car roofs. 2,421,660; June 3.
- Swann, James S., Homewood, assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Refrigerator car flashing. 2,430,256; Nov. 4.
- Swann, Ralph C.: *See*—Thacker, Carlisle M., and Swann.
- Swann, Samuel D., U. S. Army, Fort Belvoir, Va. Etching machine. 2,415,450; Feb. 11.
- Swanson, Bernard A., Port Angeles, Wash. Trailer attachment. 2,424,641; July 29.
- Swanson, Carl E.: *See*—Geller, Joseph J., and Swanson.
- Swanson, Ernest R., Cranston, R. I., assignor to Universal Winding Company, Boston, Mass. Tension device for winding machines. 2,432,696; Dec. 16.
- Swanson, Francis J., Saratoga, Wyo. Vaccinating gun. 2,417,140; Mar. 11.
- Swanson, Gunnar E., New Britain, Conn. Master key cylinder lock. 2,422,600; June 17.
- Swanson, Harry G.: *See*—Wiggin, Rinaldo E., and Swanson.
- Swanson, Oscar L., Erie, Pa. Holder for articles. 2,422,051; June 10.
- Swanson, Swan, Lansing, Mich. Farm gate. 2,426,380; Aug. 26.
- Swanson Tool and Machine Products, assignee: *See*—Anderson, Carl R.
- Swanton, Charles L., North Chili, assignor to General Railway Signal Company, Rochester, N. Y. Power supply for traffic controlling systems. 2,420,629; May 13.
- Swanton, John R., Jr.: *See*—Land, Edwin H., Swanton, and Gibson.
- Swart, Gilbert H., assignor to The General Tire & Rubber Company, Akron, Ohio. Carbon black pellets. 2,427,238; Sept. 9.
- Swartz, Charles A.: *See*—Searles, Amos, and Swartz.
- Swartz, Claude, West Chicago, Ill. Wire-cutting pliers. 2,431,970; Dec. 2.
- Swartz, Ernest F., Berwyn, Pa. Special emergency brake. 2,433,581; Dec. 30.
- Swartz, Francis E., Jr.: *See*—Rau, Carl W., and Swartz.
- Swartz, William L., West Hartford, assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Firearm sight. 2,417,716; Mar. 18.
- Swearingen, John E., assignor to Standard Oil Company, Chicago, Ill. Catalytic conversion system. 2,415,973; Feb. 18.
- Swearingen, Kenneth M., Turlock, Calif. Anti-hen-setting device. 2,418,144; Apr. 1.
- Sweeney, Arthur H., Jr.: *See*—Audrieth, Ludwig F., and Sweeney.
- Sweeney Lithograph Company, Inc., assignee: *See*—Watson, John.
- Sweeney, William J., Summit, N. J., assignor to Standard Oil Development Company. Conversion of hydrocarbon oils. 2,417,527; Mar. 18.
- Sweeney, William J., Summit, N. J., assignor to Standard Oil Development Company. Making an improved gasoline. 2,418,993; Apr. 15.
- Sweeney, William J., Summit, N. J., assignor to Standard Oil Development Company. Conversion of hydrocarbon oils. 2,426,903; Sept. 2.
- Sweet, Alvin J.: *See*—Ogilvie, James, and Sweet.
- Sweet, Monroe H., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Photoelectric electron multiplier tube photometer circuit. 2,417,023; Mar. 4.
- Sweet, Monroe H., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Compensated photoelectric photometer circuits. 2,420,058; May 6.
- Sweger, Russell P., assignor to Barber-Colman Company, Rockford, Ill. Apparatus for cooling cylinders. 2,422,936; June 24.
- Sweier, George D., Jr., Detroit, Mich. Beverage mixer and cooler. 2,433,248; Dec. 23.
- Swennes, Benjamin A., Rockford, assignor to Borg-Warner Corporation, Chicago, Ill. Amphibian vehicle. 2,413,850; Jan. 7.
- Swennes, Benjamin A., Rockford, assignor to Borg-Warner Corporation, Chicago, Ill. Amphibian vehicle. 2,416,128; Feb. 18.
- Swennes, Benjamin A., Rockford, assignor to Borg-Warner Corporation, Chicago, Ill. Fluid coupling. 2,421,360; May 27.
- Swennes, Benjamin A., Rockford, Ill., assignor, by mesne assignments, to the United States of America, as represented by the Secretary of the Navy. End gate for amphibian vehicles. 2,432,259; Dec. 9.
- Swennes, Benjamin A., Rockford, assignor to Borg-Warner Corporation, Chicago, Ill. Semiautomatic transmission. 2,433,003; Dec. 23.
- Swenson, Alfred G.: *See*—Campbell, James R., and Swenson.
- Swenson, Arthur W., Salem, Oreg. Toy vehicle. 2,421,041; May 27.
- Swenson, George W.: *See*—Buzzell, Maurice E., and Swenson.
- Swenson, James W., assignee: *See*—Hudson, William H.
- Swenson, Oscar J.: *See*—Rhodes, Fred H., and Swenson.
- Swenson, William E., St. Paul, and V. N. Albertson, assignors to Minneapolis-Moline Power Implement Company, Minneapolis, Minn. Circuit controller. 2,427,426; Sept. 16.
- Swezey, William F.: *See*—Jennings, Harley Y., Swezey, and Schouman.
- Swietoslowski, Wojciech, assignor to Koppers Company, Inc., Pittsburgh, Pa. Separation of beta-ethyl-naphthalene. 2,428,102; Sept. 30.
- Swift Electric Welder Company, assignee: *See*—Taylor, Floyd E.
- Swift, Frank H., Portland, Oreg. Hydraulic barker. 2,422,757; June 24.
- Swift, George W., Jr., Inc., assignee: *See*—Hill, Irving.
- Swift, Grace L., Vancouver, British Columbia, Canada. Pin receptacle. 2,413,800; Jan. 7.
- Swift, Harvey C., assignor to Bendix Aviation Corporation, Detroit, Mich. Fluid torque converter. 2,416,129; Feb. 18.
- Swift, M., & Sons, Inc., assignee: *See*—Davidoff, Charles.
- Swift, Stanley R.: *See*—Thomson, Robin H. K., and Swift.
- Swift, Willard E., Jr., Worcester, Mass. Antibacklash device. Re. 22,852; Mar. 11.
- Swigert, Clarence J., assignor, by mesne assignments, to General Motors Corporation, Detroit, Mich. Automatic choke valve. 2,427,030; Sept. 9.
- Swindle, Theodore, Atlanta, Ga. Valve rocker arm refacing machine. 2,419,179; Apr. 15.
- Swindler, Aldan E., Indio, Calif., assignor of one-half to L. Swingle. Date picking apparatus. 2,428,184; Sept. 30.
- Swinehart, Merle R., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electrical contact materials and contacts and making the same. 2,425,052; Aug. 5.
- Swinehart, Merle R., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Silver-backed nonwelding contacts and making the same. 2,425,053; Aug. 5.
- Swingle, Leonhardt, assignee: *See*—Swindler, Aldan E.
- Swingspout Measure Co., assignee: *See*—Wiswell, Ozo N.
- Swinnerton's Limited Vulcan Pottery, assignee: *See*—Bloor, Robert B.
- Swisher, Murray T., Clairton, Pa. Single-phase alternating current synchronous motor. 2,421,301; May 27.
- Swiss society: Gesellschaft zur Förderung der Forschung auf dem Gebiete der technischen Physik an der Eidg. Technischen Hochschule G. T. P., assignee: *See*—Staeger, Hans.
- Switlik Parachute Company, assignee: *See*—Cunningham, Edwin R.
- Switlik, Stanley, assignee: *See*—Severance, Spencer W.
- Switzer, Joseph L., Cleveland Heights, Ohio. Coated fluorescent fabric. 2,417,383; Mar. 11.
- Switzer, Robert C., South Euclid, Ohio. Daylight fluorescent signaling and display device. 2,417,384; Mar. 11.
- Swoger, Harold H., Pittsburgh, Pa. Injection press. 2,431,843; Dec. 2.
- Swope, Leslie R., Huntsville, Tex. Corrugated metal roofing. 2,419,663; Apr. 29.
- Sword, Frank P.: *See*—Thomas, Oscar H., O'Neal, and Sword.



- Syfert, William W., Madras, Oreg. Binder post. 2,417,141; Mar. 11.
- Sykes, Albert E., Berkeley, Calif. Dental instrument. 2,428,689; Oct. 7.
- Sylvan, Joseph, Berkeley, Mich. Storm window. 2,419,425; Apr. 22.
- Sylvander, Carl A., Taunton, Mass. Drive control mechanism. 2,431,149; Nov. 18.
- Sylvania Electric Products Inc., assignee: *See*—
- Barker, Charles E.
  - Bayley, Charles D.
  - Bickford, Lawrence R., Jr.
  - Burns, Laurence.
  - Clapp, Richard H.
  - Demb, Kenneth, and Hayes.
  - De Merritt, Roger F.
  - Donovan, Alfred J.
  - Ellefson, Bennett S.
  - Hilliard, Robert C.
  - Janis, Peter.
  - Leyshon, William E.
  - Mager, Eric L.
  - McCarthy, Henry J.
  - McKenzie, Ronald J.
  - Peacock, Arnold L., and Sinclair.
  - Rochester, Nathaniel.
  - Schneider, Everett J.
  - Scribner, Kenneth R.
  - Toorks, William P.
  - Vogt, Charles A.
- Sylvester, Harold K., Redondo Beach, assignor of one-half to H. C. Smith, Conoga Park, Los Angeles, Calif. Mechanical horse. 2,421,091; May 27.
- Symington-Gould Corporation, assignee: *See*—
- Couch, Glenn F.
- Symington-Gould Corporation, The, assignee: *See*—
- Barrows, Donald S.
- Symonds, James W., Ladoga, Ind. Coal truck and unloading apparatus. 2,422,268; June 17.
- Synco Devices, Inc., assignee: *See*—
- Rupersburg, Burghardt P.
- Synerholm, Martin E., Hastings on Hudson, N. Y., assignor to Boyce Thompson Institute for Plant Research, Inc. Pyrethrin synergist. 2,431,844; Dec. 2.
- Synerholm, Martin E., Hastings on Hudson, N. Y., assignor to Boyce Thompson Institute for Plant Research, Inc. Pyrethrin synergist. 2,431,845; Dec. 2.
- Synerholm, Martin E., Hastings-on-Hudson, N. Y., assignor to Boyce Thompson Institute for Plant Research, Inc. Insecticidal composition of pyrethrum and a methylene dioxypheyl synergist. 2,433,491; Dec. 30.
- Synnestvedt, Carl H., Bryn Athyn, assignor to Philco Corporation, Philadelphia, Pa. Ice tray. 2,415,451; Feb. 11.
- Synnestvedt, Kenneth P., Bryn Athyn, assignor to Auto-giro Company of America, Philadelphia, Pa. Aircraft with tiltable rotor having movable pivot. 2,427,646; Sept. 16.
- Synton Company, assignee: *See*—
- Alvord, Grove D.
  - Gilbert, Walter, Sr.
- Syracusa, Peter: *See*—
- De Palma, Anthony, and Syracuse.
- Syracuse Chilled Plow Co., Inc., assignee: *See*—
- Baker, Herbert N.
  - Young, Austin E.
- Szegho, Constantin S., assignor to The Rauland Corporation, Chicago, Ill. Cathode-ray tube projector. 2,415,311; Feb. 4.
- Szegho, Constantin S., assignor to The Rauland Corporation, Chicago, Ill. Tube for color television. 2,422,937; June 24.
- Szegho, Constantin S., assignor to The Rauland Corporation, Chicago, Ill. Manufacturing screens in cathode ray tubes. 2,423,626; July 8.
- Szegho, Constantin S., assignor to The Rauland Corporation, Chicago, Ill. Color television. 2,431,088; Nov. 18.
- Szerenyi, Andrew, Toronto, Ontario, Canada. Drafting pen. 2,418,796; Apr. 8.
- Sziklai, George C., Princeton, N. J., assignor to Radio Corporation of America. Regulated high-voltage power source. 2,413,932; Jan. 7.
- Sziklai, George C., Princeton, N. J., assignor to Radio Corporation of America. Method of and apparatus for producing luminous images. 2,415,226; Feb. 4.
- T. I. (Group Services) Limited, assignee: *See*—
- Evans, David W. T.
- T & S Corporation, assignee: *See*—
- Strid, Sven J.
- Tabacchi, Bruno, Cadiz, Ohio. Auxillary headlight system. 2,427,076; Sept. 9.
- Tabbert, Paul C., Bridgman, Mich. Combined air filter and muffler. 2,419,664; Apr. 29.
- Taber, Gene V., Moline, Ill. Sanding drum. 2,419,858; Apr. 29.
- Taborski, Alfred F., Buffalo, N. Y. Preformed necktie. 2,420,387; May 13.
- Taborski, Alfred F., Buffalo, N. Y. Necktie. 2,421,471; June 3.
- Taborski, Alfred F., Buffalo, N. Y. Bow tie. 2,421,972; June 10.
- Taborski, Alfred F., Buffalo, N. Y. Necktie. 2,422,992; June 24.
- Tabke, Robert S.: *See*—
- Holloway, Judson H., Tabke, and Parrett.
- Tabor-Olney Corporation, assignee: *See*—
- Flosdorf, Earl W., and Stokes.
- Tack, Carl E., assignor to American Steel Foundries, Chicago, Ill. Brake. 2,418,435; Apr. 1.
- Tack, Carl E., assignor to American Steel Foundries, Chicago, Ill. Shock strut. 2,423,736; July 8.
- Tack, Carl E., and W. A. Helsten, assignors to American Steel Foundries, Chicago, Ill. Clasp brake. 2,418,057; Mar. 25.
- Tack, Carl E., and W. A. Helsten, assignors to American Steel Foundries, Chicago, Ill. Rotor brake. 2,433,582; Dec. 30.
- Taegstroem, Ingemar, Waterbury, Conn., assignor of one-third to M. D. Pickens, New York, N. Y. Articulated bracelet or the like. 2,429,036; Oct. 14.
- Taft, Howard B., Chicago, Ill. Tractor implement actuating mechanism. 2,414,072; Jan. 7.
- Taheny, Thomas J., Pawtucket, R. I. Non-refillable bottle closure. 2,430,790; Nov. 11.
- Tahon, Robert G., Lyon, France, assignor to International Standard Electric Corporation, New York, N. Y. System of modulation transmission by means of impulses. 2,433,407; Dec. 30.
- Tainsh, Peter W., Spital, Bromborough, Wirral, England, assignor to Lever Brothers Company, Cambridge, Mass. Composition for and method of whitening textiles with a blue fluorescent material and ultramarine. 2,424,778; July 29.
- Tainsh, Peter, Wright, Spital, England, assignor to Lever Brothers Company, Cambridge, Mass. Method of and apparatus for manufacturing subdivided soap product. 2,429,852; Oct. 28.
- Tait, Robert S.: *See*—
- Cooper, Leo, and Tait.
- Talalay, Joseph A., New Haven, Conn. Producing a reticulated structure. 2,432,353; Dec. 9.
- Talbot, Curtis G., Scotia, N. Y., assignor to General Electric Company. Aircraft supercharger arrangement for engine and cabin. 2,415,713; Feb. 11.
- Talbot, Frank A., Baltimore, Md. Rotary motor, pump, and the like. 2,423,271; July 1.
- Talbot, Martha M., Detroit, Mich. Hair curler. 2,423,420; July 1.
- Talbot, Russell P., Detroit, Mich. Identifying minute measurement. 2,418,436; Apr. 1.
- Talboys, Henry H., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Foundry cutoff machine. 2,418,737; Apr. 8.
- Talboys, Henry H., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Foundry cutoff machine. 2,418,738; Apr. 8.
- Talboys, Henry H., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Internal grinder and polisher. 2,419,665; Apr. 29.
- Talbur, William F.: *See*—
- Aronovsky, Samuel I., Talbur, and Lathrop.
- Talcott, Frederick L., Jr., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Extension hinge. 2,433,305; Dec. 23.
- Talge, Foster L.: *See*—
- McEntire, Kenneth R.
- Talge, Henry J.: *See*—
- McEntire, Kenneth R.
- Taliaferro, William R., Edgewood, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Shockproof device. 2,426,068; Aug. 19.
- Tallaksen, Olaf, Chicago, assignor of one-half to J. B. Lindecker, Skokie, Ill. Fishing lure. 2,414,425; Jan. 14.
- Tallaksen, Olaf, Chicago, assignor of one-half to J. B. Lindecker, Skokie, Ill. Artificial fishhook lure. 2,431,434; Nov. 25.
- Talley, H. P., assignee, et al.: *See*—
- Long, Ralph M.
- Talley, Henry A. E., assignor to Medical & Industrial Equipment Limited, London, England. Oxy-acetylene welding or cutting equipment. 2,414,345; Jan. 14.
- Tallis, Ernest E., Meriden, assignor to Courtaulds Limited, London, England. Manufacture of threads, filaments, films, and the like from alginates. 2,422,993; June 24.
- Tallman, Oscar F., assignor to J. R. Kearney Corporation, St. Louis, Mo. Earth anchor. 2,427,934; Sept. 23.
- Talmage, Charles R., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Treating composite metal. 2,423,857; July 15.
- Talon, Inc., assignee: *See*—
- Gould, Clarence D.
- Tama, Manuel, Morrisville, Pa. Submerged resistor electric induction furnace. 2,427,817; Sept. 23.
- Tama, Manuel and M., Morrisville, Pa., assignors to Ajax Engineering Corporation, Trenton, N. J. Submerged resistor type induction furnace and operating. Re. 22,948; Dec. 9.
- Tama, Manuel and M., Morrisville, Pa., assignors to Ajax Engineering Corporation, Trenton, N. J. Submerged resistor type induction furnace and operating. 2,415,974; Feb. 18.
- Tama, Manuel and M., Morrisville, Pa., assignors to Ajax Engineering Corporation, Trenton, N. J. Induction furnace. 2,423,912; July 15.



- Tama, Mario: *See*—  
Tama, Manuel and M.
- Tamarin, Bernard J., Flourtown, Pa. Cigarette package. 2,415,117; Feb. 4.
- Tamborello, Frank, Milwaukee, Wis. Bathtub. 2,432,832; Dec. 16.
- Tames, Peter, assignee: *See*—  
Montani, Angelo.
- Tamm, Robert E., Royal Oak, and E. R. Martens, assignors to The Warner Aircraft Corporation, Detroit, Mich. Valve assembly for hydraulic braking systems. 2,431,210; Nov. 18.
- Tampax Incorporated, assignee: *See*—  
McLaughlin, John R.
- Tandler, William S., New York, N. Y. Cooking stove. 2,425,271; Aug. 5.
- Tangeman, William H., and J. R. Campbell, Ontario, Calif., assignor to General Electric Company. Flatiron having a retractable support. 2,422,505; June 17.
- Tanglefoot Company, The, assignee: *See*—  
Clark, Llewellynn J., and Goosmann.
- Tangorra, John, Brooklyn, N. Y. Adjustable shoulder pad. 2,430,485; Nov. 11.
- Tanksley, Forrest E., assignor to Eisele & Co., Nashville, Tenn. Clinical thermometer. 2,414,001; Jan. 7.
- Tanner, Arnold F., Alliance, Ohio. Cheese container. 2,419,299; Apr. 22.
- Tanner, Charles A., Jr., Amherst, and W. J. Cauwenberg, Piney River, Va. Manufacture of rutile. 2,427,165; Sept. 9.
- Tanner, Elo C., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Fluid cooling apparatus with controls therefor. 2,432,546; Dec. 16.
- Tanner, Fred W., Jr., and J. M. Van Lanen, Peoria, Ill., assignors to United States of America, as represented by the Secretary of Agriculture. Production of riboflavin by candida flareri. 2,424,003; July 15.
- Tanner, Gustaf: *See*—  
Kalling, Bo M. S., Wallden, and Tanner.
- Tanner, Robert L., Jr.: *See*—  
Mills, John H., and Tanner.
- Tanner, Robert R.: *See*—  
Thompson, John S., and Tanner.
- Tanzer, George, Everett, Mass. Sleeve form. 2,432,833; Dec. 16.
- Tappan, Dewitt, Irondequoit, N. Y. Sash balance. 2,415,614; Feb. 11.
- Tarbell, Woodward, New York, N. Y., assignor to Robert C. Travers, Worcester, Mass. Lady's garment. 2,433,820; Dec. 30.
- Tarbox, John P., assignor to The Budd Company, Philadelphia, Pa. Brake mounting. 2,423,055; June 24.
- Tarbox, John P., assignor to The Budd Company, Philadelphia, Pa. Brake rotor. 2,423,056; June 24.
- Tarkington, Wilson, Dallas, Tex. Well screen and perforation cleaner. 2,427,311; Sept. 9.
- Tarkow, Harold: *See*—  
Stamm, Alfred J., and Tarkow.
- Tarnay, Eugene, assignor to I. Seidman, New York, N. Y. Multiple garment hanger. 2,429,037; Oct. 14.
- Tarnow, Nathan, Detroit, Mich. Cable clamp. 2,419,426; Apr. 22.
- Tarof, Ernest L., Cupsaw Lake, assignor to Kerlow Steel Flooring Company, Jersey City, N. J. Grating. 2,425,054; Aug. 5.
- Tarpley, Raymond E.: *See*—  
Williams, Albert J., Jr., Tarpley, and Johnson.
- Tarr, Allan L., Boulder City, Nev., and G. W. Oxley, Elizabeth, N. J., assignors to Standard Oil Development Company. Chlorinated polyisobutylene-petroleum coke moulding compound. 2,427,077; Sept. 9.
- Tarr, James E., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Control system for two-phase induction motors. 2,429,651; Oct. 28.
- Tarr, Omar F., Stoneleigh, and M. Darrin, Baltimore, Md., assignors to Mutual Chemical Company of America, New York, N. Y. Preparing zinc yellow pigments. 2,415,394; Feb. 4.
- Tarr, Philip R., and D. C. Cline, Silver Lake Village, Ohio. Apparatus for fluid treating roll film. 2,419,859; Apr. 29.
- Tartaglia, Richard A.: *See*—  
Remington, Frederic, and Tartaglia.
- Tashjian, David R., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Ultra high frequency coupling circuit. 2,422,601; June 17.
- Task, Harry, Chicago, Ill. Rail spike. 2,432,697; Dec. 16.
- Tatar, Stanley, Detroit, Mich. Engine. 2,417,142; Mar. 11.
- Tate, Carman C., Mexico City, Mexico, assignor to Phillips Petroleum Company. Internal-combustion engine. 2,424,723; July 29.
- Tate, James, Racine, Wis., assignor, by mesne assignments, to Rockwell Manufacturing Company, Pittsburgh, Pa. Drill press. 2,428,049; Sept. 30.
- Tatham, Willard L., Decatur, Ill. Piston packing ring assembly. 2,420,690; May 20.
- Tatman, Olive B.: *See*—  
Williams, Albert J., Jr., and Tatman.
- Tatter, Ernest, assignor to Production Instrument Company, Chicago, Ill. Counting device. 2,426,715; Sept. 2.
- Tattersfield, Charles P.: *See*—  
Whittaker, Croyden M., Thomas, Wilcock, and Tattersfield.
- Tatum, William W., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Sulfuric acid esters of hydroxyalkylamino-anthraquinones. 2,415,377; Feb. 4.
- Taub, Abraham, New York, and R. M. Simone, Long Island City, N. Y. Antioxidant stabilized material. 2,432,698; Dec. 16.
- Tauch, Ernest J., Cleveland Heights, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing ammonium sulfamate. 2,426,420; Aug. 26.
- Taulman, Francis L., Tulsa, Okla. Pipe thawing device. 2,426,976; Sept. 2.
- Taurman, Alphonso, Birmingham, Ala. Bottle crate. 2,416,242; Feb. 18.
- Taurman, Alphonso, Birmingham, Ala., and L. H. Hyne-man, Atlanta, Ga. Wheel guard. 2,414,676; Jan. 21.
- Tauscher, Vernon A., Inglewood, Calif. Cable tension regulator. 2,424,198; July 15.
- Tavano Aero Engineering Co., The, assignee: *See*—  
Tavano, John B.
- Tavano, John B., assignor to The Tavano Aero Engineering Co., Waterbury, Conn. Belt abrading machine. 2,423,737; July 8.
- Tawney, Pliny O., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. Ternary acrylic ester, styrene, dienone interpolmer. 2,414,401; Jan. 14.
- Tawney, Pliny O., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. Interpolymers. 2,426,325; Aug. 26.
- Taxwood, Vincent C.: *See*—  
Stock, Charles R., and Taxwood.
- Taylor, Albert J., Atlanta, Ga. Firebox bearer or expansion pad. 2,415,770; Feb. 11.
- Taylor, Arthur W. C.: *See*—  
Bremner, John G. M., Jones, and Taylor.  
Reynolds, Peter W., Taylor, and Bremner.
- Taylor, Auburn: *See*—  
Allen, Holly H., and Taylor.
- Taylor, Auburn, Charleston, W. Va. Folding table. 2,423,529; July 8.
- Taylor, Auburn, Charleston, W. Va., assignor to The Goss Printing Press Company, Chicago, Ill. Inking mechanism using water base inks. 2,430,965; Nov. 18.
- Taylor, August M., assignor of one-half to E. F. Smith, Clarendon, Tex. Tack hammer. 2,425,494; Aug. 12.
- Taylor, Brice W., Oklahoma City, Okla. Steering wheel device. 2,425,055; Aug. 5.
- Taylor, Cecil E.: *See*—  
Fish, Bernard, Taylor, and Van Cleaf.
- Taylor, Charles C., Elburn, assignor to McStay Jackson and Company, Chicago, Ill. Light shield for tubular illuminators. 2,429,141; Oct. 14.
- Taylor, Charles H., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Convertible pneumatic cleaning apparatus. 2,416,417; Feb. 25.
- Taylor, Charles H., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Convertible pneumatic cleaning apparatus. 2,416,418; Feb. 25.
- Taylor, Charles H., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Suction cleaning apparatus. 2,416,420; Feb. 25.
- Taylor, Charles H., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Suction cleaning nozzle. 2,421,661; June 3.
- Taylor, Clarence C.: *See*—  
Leo, Herbert T., and Taylor.
- Taylor, Clarence L., East Cleveland, Ohio, assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Pump lubricant metering arrangement. 2,422,864; June 24.
- Taylor, Daniel G., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control device. 2,427,239; Sept. 9.
- Taylor, Edmund R., Pelham Manor, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,418,145; Apr. 1.
- Taylor, Edward S. and R. C. Honley, England. Tool post for capstan and like lathes. 2,419,742; Apr. 29.
- Taylor, Edward W., assignor to S. G. Taylor Chain Company, Hammond, Ind. Joiner link for chain slings. 2,430,966; Nov. 18.
- Taylor Fibre Company, assignee: *See*—  
Scherer, Wayne R.
- Taylor, Florence E., assignee, et al.: *See*—  
Du Bois, Joseph E.
- Taylor, Floyd E., Birmingham, assignor to Swift Electric Welder Company, Detroit, Mich. Electric welding machine. 2,419,921; Apr. 29.
- Taylor, Frank W.: *See*—  
Chilcot, Arthur L., Jackson, and Taylor.
- Taylor, George C.: *See*—  
Fraser, Walter G., Jr., and Taylor.
- Taylor, George F., Grosse Pointe Woods, Mich., assignor to Carboly Company, Inc. Method of making cemented carbide article. 2,422,636; June 17.
- Taylor, George F., Grosse Pointe Woods, assignor to Carboly Company, Inc., Detroit, Mich. Twist drill. 2,422,994; June 24.



- Taylor, George F., Grosse Pointe Woods, assignor to Carbonyl Company, Inc., Detroit, Mich. Pigtail thread guide. 2,431,150; Nov. 18.
- Taylor, George J., assignor to Eastman Kodak Company, Rochester, N. Y. Disazo dye compounds. 2,420,630; May 13.
- Taylor, George J., assignor to Eastman Kodak Company, Rochester, N. Y. Dis-azo dyes for color photography. 2,420,631; May 13.
- Taylor, Halsey W., assignor to The Halsey W. Taylor Company, Warren, Ohio. Water cooling apparatus. 2,418,994; Apr. 15.
- Taylor, Halsey W., Company, The, assignee: *See*—Taylor, Halsey W.
- Taylor, Henry P., Walkerton, Va. Feeder for viners. 2,421,815; June 10.
- Taylor Instrument Companies, assignee: *See*—Brown, H. Brainard.  
Olson, Raymond E.  
Stone, Guy A.
- Taylor, Jack: *See*—Tunnicliff, Eustace, Taylor, and James.
- Taylor, James, Saltcoats, and H. R. Wright, West Kilbride, Scotland, assignors to Imperial Chemical Industries Limited. Explosive boosters. 2,424,374; July 22.
- Taylor, John A., Rockaway, N. J. Mixing mat. 2,426,249; Aug. 26.
- Taylor, John A., Washington, D. C., and M. A. Knight, Arlington, Va. Electrical indicating device. 2,415,452; Feb. 11.
- Taylor, John E.: *See*—Moody, Robert H., and Taylor.
- Taylor, Lloyd B., Farmington, N. Mex. Portable multiple compartment liquid dispensing system. 2,421,765; June 10.
- Taylor, Maurice C., Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Apparatus for amalgam decomposition. 2,423,351; July 1.
- Taylor, Moulton B., U. S. Navy. Automatic control. 2,432,548; Dec. 16.
- Taylor, Myron L., West Englewood, N. J., assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for preventing the accumulation of ice. 2,418,205; Apr. 1.
- Taylor, Owen L.: *See*—Ellis, Delbert, and Taylor.
- Taylor, Philip L., Abington, Mass., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Gas blast circuit breaker. 2,426,250; Aug. 26.
- Taylor, Raymond C.: *See*—Taylor, Edward S. and R. C.
- Taylor, Raymond G., Jr., and D. B. Hooser, assignors to The Guiberson Corporation, Dallas, Tex. Control head packer. 2,430,623; Nov. 11.
- Taylor, Reginald, and G. T. Baker, Liverpool, England, assignors to Automatic Electric Laboratories Inc., Chicago, Ill. Automatic telephone system directed with the aid of reverberant audio-frequency signals. 2,421,169; May 27.
- Taylor, Reginald, and G. T. Baker, Liverpool, England, assignors to Automatic Electric Laboratories Inc., Chicago, Ill. Nonnumerical rotary homing type switch. 2,424,519; July 22.
- Taylor, Robert L., McEwen, Tenn. Scarifier. 2,416,654; Feb. 25.
- Taylor, Robert S., Seattle, Wash. Planetary transmission. 2,417,957; Mar. 25.
- Taylor, Ross E., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 2,432,699; Dec. 16.
- Taylor, S. G., Chain Company, assignee: *See*—Mulderick, John O.  
Taylor, Edward W.
- Taylor, Scott V. E., assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Packing structure. 2,430,836; Nov. 11.
- Taylor, Taylor & Hobson Limited, assignee: *See*—Cooke, Ernest A.  
Cox, Arthur.  
Reason, Richard E.  
Warmisham, Arthur.
- Taylor, Thomas L., Ruxton, and C. F. Bell, Jr., Baltimore, assignors to The Glenn L. Martin Company, Middle River, Md. Gun storage container. 2,417,331; Mar. 11.
- Taylor, Walter A., Killingworth, Conn., assignor to Atlas Powder Company, Wilmington, Del. Essential oil compositions. 2,422,145; June 10.
- Taylor, Walter W., assignor to Malsbary Manufacturing Company, Oakland, Calif. Pump. 2,413,851; Jan. 7.
- Taylor, Walter W., assignor, by mesne assignments, to Malsbary Manufacturing Company, Oakland, Calif. Pumping system. 2,415,265; Feb. 4.
- Taylor, Walter W., assignor to Malsbary Manufacturing Company, Oakland, Calif. Pump. 2,427,818; Sept. 23.
- Taylor, Warren G., Essex Fells, and C. L. Baxter, West Caldwell, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y. Flexible connector. 2,426,251; Aug. 26.
- Taylor, William A.: *See*—Marhoefer, Laurence J., Taylor, and Vidal.
- Taylor, William H., Waukesha County, Wis. Dehydrating apparatus. 2,414,215; Jan. 14.
- Taylor, William H., Pawtucket, L. W. Pierce, Barrington, R. I., and G. H. Andrews, Hartsdale, N. Y., assignors to Crown Fastener Corporation, Warren, R. I. Display package. 2,415,151; Feb. 4.
- Taylor, William I., Spondon, near Derby, assignor to British Celanese Limited, London, England. Closure for bottles and the like. 2,419,743; Apr. 29.
- Taylor, William I., Spondon, near Derby, assignor to British Celanese Limited, London W. 1, England. Production of crinkled cellulose ester filaments. 2,431,435; Nov. 25.
- Taylor, William J., Jr., assignor to Continental Can Company, Inc., New York, N. Y. Soldering machine. 2,432,834; Dec. 16.
- Taylor, William J., and J. Coyle, Baltimore, Md., assignors to Continental Can Company, Inc., New York, N. Y. Hook seam container and closure joint. 2,432,835; Dec. 16.
- Taylor-Winfield Corporation, The, assignee: *See*—Hansen, Hans H., and Smith.  
Seeloff, Melvin M.  
Seltzer, Clifford S.
- Teague, Walter D., assignee: *See*—Clark, Edgar H.
- Teague, Walter D., Jr.: *See*—Teague, Walter D., and Teague.
- Teague, Walter D., Annandale, N. J., and W. D. Teague, Jr., Douglaston, Long Island, N. Y., assignors to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone substation set. 2,428,593; Oct. 7.
- Teahan, Teresa M. C., assignee, et al.: *See*—Caruso, Mario.
- Teal, Gordon K., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrooptical device. 2,416,720; Mar. 4.
- Teal, Gordon K., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrooptical device. 2,423,124; July 1.
- Teal, Gordon K., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Photoelectromotive force cell of the silicon-silicon oxide type and method of making the same. 2,423,125; July 1.
- Teale, Harold A., Brooklyn, assignor to Filter Media Corporation, Irvington-on-Hudson, N. Y. Apparatus for reducing the fluid content of a fluid-solid intermixture. 2,417,958; Mar. 25.
- Tear, James D.: *See*—Poitras, Edward J., and Tear.
- Tebbutt, John T., Three Rivers, Quebec, Canada. Compression mold for footwear. 2,414,985; Jan. 28.
- Technical Products Company, assignee: *See*—Ospow, Lloyd L., and Blumenthal.
- Technicolor Motion Picture Corporation, assignee: *See*—Rackett, Gerald F.
- Tecumseh Refrigeration Sales and Engineering Company, assignee: *See*—Touborg, Jens.
- Teegarden, Otto V., Goshen, Ind. Tire replacing tool. 2,421,856; June 10.
- Teeson, Robert F., Cathlamet, Wash., assignor of one-half to J. S. Shute, Portland, Ore. Motor control apparatus. 2,430,257; Nov. 4.
- Teeter, Wilford H., Dayton, and C. E. Waring, Oakwood, assignors to General Motors Corporation, Dayton, Ohio. Propeller blade fairing. 2,427,166; Sept. 9.
- Tegarden, John E.: *See*—See, Theodore S., Tegarden, Williams, and See.
- Tegarty, John B., Buffalo, N. Y. Plastic clothespin. 2,433,171; Dec. 23.
- Tegge, Carlton S., Haddon Heights, N. J., assignor to The Brown Instrument Company, Philadelphia, Pa. Electrical measuring apparatus. 2,420,574; May 13.
- Teicher, Joseph A., Erdington, Birmingham, and D. F. Twiss, Sutton Coldfield, England, assignors to Dunlop Tire & Rubber Corporation, Buffalo, N. Y. Dinitrosodiphenyl guanidines. 2,432,975; Dec. 16.
- Teigen, Oscar C., Jamaica Plain, Mass. Mop clamping device. 2,425,763; Aug. 19.
- Teisen, Mogens R. G.: *See*—Johansen, Carl S., and Teisen.
- Teksun Inc., assignee: *See*—Hoffer, Howard G.
- Telechron Inc., assignee: *See*—Bohman, David L.
- Teleflex Incorporated, assignee: *See*—Cadwallader, Alvin A.
- Telefon Aktiebolaget L. M. Ericsson Midsommarkransen, assignee: *See*—Frisk, Nils P. W.
- Telefonaktiebolaget L. M. Ericsson, assignee: *See*—Blomberg, Knut H., and Lysell.  
Frisk, Nils P. W.  
Hultgren, Tage Stefan.  
Jonsson, Johan A.  
Jorgensen, Anders O.  
Werner, Sture E., and Jorgensen.
- Telegen, Bernardus D. H., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Amplifier circuits. 2,431,151; Nov. 18.
- Teleregister Corporation, The, assignee: *See*—Marshall, Joseph C., May, and Whitney.  
May, Harold F.



- Teletype Corporation, assignee: *See*—  
 Gemmel, Wilbur R.  
 Grey, Victor.  
 Hutchinson, Volney A.  
 Keyes, George G.  
 Lake, Ross A.  
 Potts, Louis M.  
 Potts, Louis M., and Schuler.  
 Swan, Carl W.
- Telford, John D., Palmerston North, New Zealand. Controlling device for horses. 2,426,716; Sept. 2.
- Telles, Ivey, Portsmouth, N. H. Washer cutter. 2,429,245; Oct. 21.
- Tellier, Andre, New York, N. Y. World clock. 2,429,853; Oct. 28.
- Tellier, Joseph C., Drexel Hill, assignor to Philco Corporation, Philadelphia, Pa. Electrostatic meter shield. 2,416,780; Mar. 4.
- Tellier, Joseph C., Penn Wynne, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Detector for frequency modulated signals. 2,417,717; Mar. 18.
- Tellurium Corporation of America, assignee: *See*—  
 Lidow, Eric, and Holmes.
- Tel-O-Post Company, assignee: *See*—  
 Alderfer, Sterling W.
- Temme, William C., South Amboy, N. J. Insect trap. 2,424,421; July 22.
- Temple, Clyde, Tulsa, Okla. Hollow building wall. 2,432,354; Dec. 9.
- Temple, George W., Miami, Fla., assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Making collapsible tubes. 2,422,052; June 10.
- Temple, Paul C., assignor to A. W. Cash Company, Decatur, Ill. Manual control valve for regulators. 2,422,758; June 24.
- Temple, Robert, Swissvale, Pa., assignor to Temple Velocity Equipment, Inc., Wilmington, Del. Emergency valve. 2,414,911; Jan. 28.
- Temple, Robert, Swissvale, Pa., assignor to Temple Velocity Equipment, Inc., Wilmington, Del. Mine anchor-line cutter. 2,422,506; June 17.
- Temple, Robert, Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Temple Velocity Equipment, Inc. Mine cable cutter. 2,420,987; May 20.
- Temple, Robert B., Grosse Pointe, Mich., assignor to The Budd Company, Philadelphia, Pa. Heavy-duty wheel rim. 2,427,634; Sept. 16.
- Temple, Roy R., Brodnax, Va. Body or footrest. 2,415,266; Feb. 4.
- Temple Velocity Equipment, Inc., assignee: *See*—  
 Temple, Robert.  
 Temple, Robert, Jr.
- Tenbrook, William E., Glenwood Springs, Colo. Vegetable toppler. 2,415,227; Feb. 4.
- Ten Cate, Arthur C., and W. C. Agerell, assignors to Oak Mfg. Co., Chicago, Ill. Preselecting mechanism. 2,417,528; Mar. 18.
- Tendick, Frank H.: *See*—  
 Burckhalter, Joseph H., Jones, Rawlins, Tendick, and Holcomb.  
 Burckhalter, Joseph H., Rawlins, Tendick, Jones, and Holcomb.
- Tennant, G. H., Company, assignee: *See*—  
 Anderson, Wilford A.
- Tennens, Nathaniel, London, England. Skirt. 2,423,666; July 8.
- Tennessee Coal, Iron and Railroad Company, assignee: *See*—  
 Dowell, Ralph L.
- Tennessee Copper Company, assignee: *See*—  
 Nikitin, Alexander A.
- Tennessee Eastman Corporation, assignee: *See*—  
 Hasche, Rudolph L.
- Tennessee Valley Authority, assignee: *See*—  
 Dely, Joseph G.
- Tenney, William G., Chicago, Ill. Battery terminal. 2,425,764; Aug. 19.
- Teplitz, Abraham J., Oakmont, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Method and apparatus for determining the location of producing horizons in wells. 2,433,718; Dec. 30.
- Ter Horst, William P., Pompton Plains, N. J., assignor to United States Rubber Company, New York, N. Y. 1,3-epoxyarylofurazanes as parasiticial preparations. 2,424,199; July 15.
- Ter Horst, William P., Pompton Plains, N. J., assignor to United States Rubber Company, New York, N. Y. 3-methylol-2(3)-benzothiazolinethione as a fungicide. 2,430,791; Nov. 11.
- Terhune, Howard, assignor of one-half to The Champion Machine & Forging Company, Cleveland, Ohio. Forging hammer (fluid operated). 2,429,780; Oct. 28.
- Terman, Frederick E., Stanford University, Calif., assignor to International Standard Electric Corporation, New York, N. Y. Coupling system for power amplifiers. 2,429,652; Oct. 28.
- Ternes, Raymond F., assignor to Miller Laundry Machinery Company, Detroit, Mich. Cylindrical washing machine and means for the progressive movement of articles therethrough. 2,433,796; Dec. 30.
- Ternes, William A., Detroit, Mich. Electrode holder. 2,432,836; Dec. 16.
- Terr, Joseph: *See*—  
 Glatthar, George E., and Terr.
- Terrell, Joseph B.: *See*—  
 Olivo, Walter L., and Terrell.
- Terrell, Oliver C., deceased, Portland, Oreg.; G. M. Kern, administratrix. Sound deadener. 2,424,004; July 15.
- Terry, Charles H., West Palm Beach, Fla. Mold for casting large flat panels. 2,421,584; June 3.
- Terry, Ester M., Drexel Hill, and M. Kaplan, Philadelphia, Pa. Copper cleaning composition. 2,428,804; Oct. 14.
- Terry, Francisco A., Habana, Cuba. Valve for lubrication. 2,425,446; Aug. 12.
- Terry, John C., Hollywood, Calif. Bottle cap. 2,421,662; June 3.
- Terry, Trent B., Charlottesville, Va. Pants. 2,417,529; Mar. 18.
- Terry, Victor J., and T. F. S. Hargreaves, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Measuring electrical signal amplitude changes. 2,419,607; Apr. 29.
- Terry, Virginia, Gary, W. Va. Car coupling means. 2,413,801; Jan. 7.
- Terry, William B., Houston, Tex. Vehicle wheel. 2,433,073; Dec. 23.
- Teruya, Jenshiro: *See*—  
 Nishizaka, Yuriko, and Teruya.
- Terwilliger, Ivan M., Pasadena, Calif. Subtractive optical image modulation. 2,424,592; July 29.
- Tessler, Benedict, Irvington, assignor to Tessler & Weiss, Inc., Newark, N. J. Multigem setting. 2,419,520; Apr. 22.
- Tessler & Weiss, Inc., assignee: *See*—  
 Tessler, Benedict.
- Testi, Nicholas, assignor to Gillette Safety Razor Company, Boston, Mass. Razor blade dispensing container. 2,418,677; Apr. 8.
- Testi, Nicholas, assignor to Gillette Safety Razor Company, Boston, Mass. Safety razor. 2,424,260; July 22.
- Testi, Nicholas, assignor to Gillette Safety Razor Company, Boston, Mass. Safety razor blade and magazine therefor. 2,424,593; July 29.
- Teter, John W.: *See*—  
 Bauer, Oscar W., and Teter.
- Teter, John W., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Production of amines and nitriles. 2,417,892; Mar. 25.
- Teter, John W., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Production of nitriles and amines. 2,417,893; Mar. 25.
- Teter, John W., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Production of nitriles from propylene and ammonia. 2,418,562; Apr. 8.
- Teter, John W., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Manufacture of gasoline using adsorptive catalysts. 2,419,427; Apr. 22.
- Teter, John W., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Preparing amines and nitriles from olefins and ammonia. 2,419,470; Apr. 22.
- Teter, John W., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Catalytic cracking of hydrocarbon oils to produce gasoline. 2,429,854; Oct. 28.
- Teter, John W., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Cobalt amination catalyst. 2,429,855; Oct. 28.
- Teter, John W., and W. J. Merwin, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y. Distillation of acrylonitrile from acetonitrile. 2,415,662; Feb. 11.
- Teter, John W., and Walter J. Merwin, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y. Dehydration of nitriles by azeotropic distillation with chloroform. 2,433,306; Dec. 23.
- Tetu, Douglas A., Haley, assignor to Dominion Magnesium Limited, Toronto, Ontario, Canada. Removing manganese from calcium. 2,425,705; Aug. 12.
- Tex Machine Corporation, assignee: *See*—  
 Sheer, Solomon, and Ginsburg.
- Texaco Development Corporation, assignee: *See*—  
 Garrison, Allen D.  
 Ludeman, Clifford G.  
 Wolf, Alexander.
- Texas Company, The, assignee: *See*—  
 Agnew, Robert J.  
 Ashburn, Harry V.  
 Atwell, Harold V.  
 Barron, Joseph M.  
 Bray, Malcolm D.  
 Callaway, John R.  
 Clarke, Louis A., and Pevero.  
 Crumrine, Kenneth C.  
 Eastman, du Bois, and Richker.  
 Fenney, William N.  
 Garol, John E.  
 Goldsby, Arthur R.  
 Gruenke, Gilbert F.  
 Herzog, Gerhard.  
 Horton, Francis.  
 Kemp, Lebbeus C., Jr.  
 Kiersted, Wynkoop, Jr.  
 Knowles, Edwin C., and McCoy.  
 Knowles, Edwin C., McCoy, and Patterson.  
 Lord, Arthur H., Jr.  
 Mackenzie, Kenneth D.



Texas Company, The, assignee: *See*—Continued.

- McCleary, Rush F., and Roberts.  
 Miller, Gordon H.  
 Morris, John R.  
 Moser, Charles E.  
 Oosterhout, Johan C. D., and Roddy.  
 Patterson, John A.  
 Pevere, Ernest F., Hatch, and Sensel.  
 Roddy, Thomas C., Jr.  
 Sensel, Eugene E.  
 Sensel, Eugene E., and Beck.  
 Sensel, Eugene E., Atwell, and Goldsby.  
 Smith, William R.  
 Smith, William R., and Glassmire.  
 Stapleton, Victor.  
 Stewart, Meredith M., Garrett, and Sensel.  
 Stone, Charles M.  
 Stone, Charles M., and Korpi.  
 Toettcher, Fred C.  
 Veltman, Preston L.  
 Watson, Claude W.  
 Wolf, Alexander.  
 Wolf, Alexander, and Herzog.
- Texas Research Corporation, assignee: *See*—  
 Bartlett, Luis H.  
 Bartlett, Luis H., Woolrich, and Brown.
- Texproof Limited, assignee: *See*—  
 Czezowitka, Rudolph H.
- Textile Foundation, assignee: *See*—  
 Harris, Milton, and Patterson.
- Textile Machine Works, assignee: *See*—  
 Bitzer, Gottlob.  
 Haehnel, Herbert E.  
 Schletter, Richard E.  
 Schmidt, Paul, and Haehnel.  
 White, Le Roy.
- Textile Research Co., assignee: *See*—  
 Hoerber, Harold.
- Languirand, William.
- Textron Incorporated, assignee: *See*—  
 Galatioto, Luigi C.
- Thacker, Carlisle M.: *See*—  
 Folkins, Hillis O., and Thacker.
- Thacker, Carlisle M., Highland Park, assignor to The Pure Oil Company, Chicago, Ill. Carbon disulfide process. 2,428,727; Oct. 7.
- Thacker, Carlisle M., Highland Park, and R. C. Swann, Skokie, assignors to The Pure Oil Company, Chicago, Ill. Alkylation of aryl hydrocarbons. 2,423,530; July 8.
- Thacker, Ralph F., assignee, et al.: *See*—  
 Gудie, Ray W.
- Thackray, Chas. F., Limited, assignee: *See*—  
 Rothwell, Ernest.
- Tharp, Homer R., San Antonio, Tex. Ice-cube tray. 2,418,530; Apr. 8.
- Thatcher, Walter E., East Orange, N. J. Bird feeder. 2,430,541; Nov. 11.
- Thayer Company, assignee: *See*—  
 Collura, Francesco.
- Thayer, Howard C., Jersey City, N. J., assignor to Quigley Company, Inc., New York, N. Y. Heat-resisting wall construction. 2,429,949; Oct. 28.
- Theal, William A., Sullivan, Ind. Load carrying means. 2,431,780; Dec. 2.
- Theatre Specialties, Incorporated, assignee: *See*—  
 Ownbey, Lloyd C.
- Theiler, Hans J., assignor to Whitin Machine Works, Whitinsville, Mass. Textile marking apparatus. 2,412,366; May 27.
- Theillaumas, Clement M., Boulogne-Billancourt, France, assignor to International Standard Electric Corporation, New York, N. Y. Electromagnetic relay. 2,423,126; July 1.
- Theillaumas, Clement M., Lyon, France, assignor to International Standard Electric Corporation, New York, N. Y. Subscriber's station for telephone systems. 2,423,127; July 1.
- Theillaumas, Clement M., Boulogne, Billancourt, France, assignor to International Standard Electric Corporation, New York, N. Y. Electrical signaling system. 2,424,594; July 29.
- Theillaumas, Clement M., Boulogne Billancourt, France, assignor to International Standard Electric Corporation, New York, N. Y. Thermally responsive electrical relay system. 2,431,352; Nov. 25.
- Theis, Matthew, Minneapolis, Minn. Gun support. 2,423,531; July 8.
- Thelin, George W., Wellesley, Mass. Winding machine. 2,430,746; Nov. 11.
- Themak, Edward, Northport, assignor to Davis & Geck, Incorporated, Brooklyn, N. Y. Suture package. 2,417,574; Mar. 18.
- Thener, Arthur F., St. Louis, Mo. Jar closure. 2,427,819; Sept. 23.
- Theobald, Clement W.: *See*—  
 Raansch, Maynard S., and Theobald.
- Therapeutic Research Corporation of Great Britain Limited, assignee: *See*—  
 Birkinshaw, John H., and Michael.  
 Coulthard, Charles E., Short, and Michaelis.

- Therhault, Raymond J., Glenside, Pa., assignor to The Budd Company, Philadelphia, Pa. Vehicle body especially roof structure for busses. 2,427,649; Sept. 16.
- Thermoid Company, assignee: *See*—  
 Bennett, James B., and McCarter.  
 Graham, Adelbert M.
- Therrien, Henri L., Port Chester, N. Y., assignor to A. J. Leone, South Norwalk, Conn. Clothes hanger. 2,428,820; Oct. 14.
- Therrien, Robert F., Toledo, Ohio. Duct interior cleaning means. 2,431,089; Nov. 18.
- Theuerer, Henry C.: *See*—  
 McLean, David A., and Theuerer.
- Theunissen, Francois J. M., Brussels, assignor to Societe Anonyme Teco, Bois-de-Breux, Belgium. Apparatus for the use of medicinal aerosols. 2,432,946; Dec. 16.
- Thibodeau, Wilfred E.: *See*—  
 Gray, John C., Thibodeau, Church, and Kessenich.
- Thibon, Honoré J., Gardanne, assignor to Compagnie de Produits Chimiques et Electrometallurgiques Alais, Froges et Camargue, Paris, France. Activation of red mud from the Bayer process. 2,432,071; Dec. 2.
- Thibos, Merle F., Niles, Mich. Amplified stethoscope. 2,419,471; Apr. 22.
- Thiess, Bernard J.: *See*—  
 Lynn, George E., and Thiess.
- Thiele, Berthold R., assignor to E. R. Wagner Manufacturing Company, Milwaukee, Wis. Latch. 2,423,352; July 1.
- Thiele, Berthold R., assignor to E. R. Wagner Manufacturing Company, Milwaukee, Wis. Latch. 2,426,754; Sept. 2.
- Thiele, Berthold R., assignor to E. R. Wagner Manufacturing Company, Milwaukee, Wis. Hasp-type fastener. 2,430,311; Nov. 4.
- Thiele, Berthold R., Ripon, assignor to E. R. Wagner Manufacturing Company, Milwaukee, Wis. Latch. 2,430,312; Nov. 4.
- Thielemann, Rudolf H., Schenectady, N. Y., assignor to General Electric Company. Forgeable alloy for high-temperature use. 2,423,738; July 8.
- Thielen, Eugene A., Clarksburg, Calif. Shoe shining machine. 2,428,476; Oct. 7.
- Thiemann, Julius A., New York, N. Y. Gum brace. 2,431,521; Nov. 25.
- Thiess, Ludwig E., Schenectady, N. Y., assignor to General Electric Company. Electric insulating composition. 2,419,472; Apr. 22.
- Thiokol Corporation, assignee: *See*—  
 Patrick, Joseph C.
- Thiry, Leon F., Montclair, N. J., assignor to The General Tire & Rubber Company, Akron, Ohio. Rubber bearing and insert therefor. 2,416,243; Feb. 18.
- Thiry, Leon F., Montclair, N. J., assignor to The General Tire & Rubber Company, Akron, Ohio. Fluid-damped mounting. 2,417,096; Mar. 11.
- Thiry, Leon F., Montclair, N. J., assignor to The General Tire & Rubber Company, Akron, Ohio. Fluid-modified mounting. 2,421,585; June 3.
- Thiry, Leon F., Montclair, N. J., assignor to The General Tire & Rubber Company, Akron, Ohio. Energy dissipating antivibration device. 2,432,050; Dec. 2.
- Thober, Herbert C., and R. G. Bowers, Toledo, Ohio, assignors to Sun Oil Company, Philadelphia, Pa. Separation of diolefins from hydrocarbon mixtures with cuprous ammonium formate solutions. 2,432,458; Dec. 9.
- Thodos, George, and C. F. Weinaug, Borger, Tex., assignors to Phillips Petroleum Company. Removal of foam-producing substances from furfural employed in extractive distillation of hydrocarbons. 2,414,402; Jan. 14.
- Thoenen, Marie, assignee, et al.: *See*—  
 Bruen, George C.
- Tholen, Albert H., Clara City, Minn. Bowling ball cleaner and polisher. 2,420,988; May 20.
- Thoma, Henry G.: *See*—  
 Kratz, John A., and Thoma.
- Thoma, Meinard F., Fitchburg, Mass. Suction cleaning device for spinning machines and the like. 2,425,576; Aug. 12.
- Thoma, Meinard F., Fitchburg, Mass. Textile machine construction. 2,425,577; Aug. 12.
- Thoma, Meinard F., Fitchburg, and Louis M. Cotchett, Hingham, Mass. Method of and apparatus for air conditioning of spinning operations and the like. 2,425,578; Aug. 12.
- Thomas, Albert G., Lynchburg, Va. Electronic switch. 2,432,260; Dec. 9.
- Thomas, Albert R., deceased, Evansville, by The National City Bank, Evansville, Ind., administrator, assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,426,069; Aug. 19.
- Thomas, Alexander, Weston, assignor to Polaroid Corporation, Cambridge, Mass. Laminated optical filter. 2,420,270; May 6.
- Thomas, Allan C., Cumberland, Md., assignor to Celanese Corporation of America. Stop motion for knitting machines and the like. 2,421,092; May 27.
- Thomas, Arthur S., Nashville, Tenn. Thin place detector for looms. 2,426,570; Aug. 26.
- Thomas & Betts Co., The, assignee: *See*—  
 Bergan, Martin D.  
 West, John W.



- Thomas & Betts Co., The, assignee: *See*—  
Bergan, Martin D.
- Thomas, Charles A.: *See*—  
Hochwalt, Carroll A., and Thomas.
- Thomas, Charles A., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Resinous condensation product of phenol and styrene oxide. 2,422,637; June 17.
- Thomas, Charles A., Fort Wayne, Ind., assignor to General Electric Company. Current collector contact member. 2,428,250; Sept. 30.
- Thomas, Charles L.: *See*—  
Ahlberg, Jacob E., and Thomas.
- Thomas, Charles L., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Synthesis of bicyclicolefinic compounds. 2,415,453; Feb. 11.
- Thomas, Charles L., assignor to Universal Oil Products Company, Chicago, Ill. Treating a liquid with a suspension of solids by passage thereof through a separator, regenerating the separated solids for re-use with untreated liquid. 2,420,761; May 20.
- Thomas, Charles L., assignor to Universal Oil Products Company, Chicago, Ill. Catalytic cracking process. 2,427,820; Sept. 23.
- Thomas, Charles L., assignor to Universal Oil Products Company, Chicago, Ill. Cracking hydrocarbon oil with silica-magnesia catalyst. 2,432,634; Dec. 16.
- Thomas, Charles L., Western Springs, assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,423,163; July 1.
- Thomas, Charles L., and J. T. Pinkston, Jr., Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Regeneration of subdivided solid contact material. 2,414,002; Jan. 7.
- Thomas, Charles L., and Herman S. Bloch, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Isomerization of tetralin. 2,416,965; Mar. 4.
- Thomas, Charles L., and Herman S. Bloch, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Isomerization of decalin. 2,416,966; Mar. 4.
- Thomas, Charles L., Winnetka, and H. S. Bloch, assignors to Universal Oil Products Company, Chicago, Ill. Isomerization of hydronaphthalenes. 2,428,923; Oct. 14.
- Thomas, Chester A.: *See*—  
Babson, Henry B., and Thomas.
- Thomas, Chester A., Crystal Lake, Ill., assignor to Babson Bros. Co. Milker nipple. 2,425,901; Aug. 19.
- Thomas, Edward B.: *See*—  
Oxley, Horace F., Thomas, and Mills.
- Thomas, Frank E., Chicago, Ill. Woodpecker toy. 2,414,179; Jan. 14.
- Thomas, Frank M.: *See*—  
Mead, Edward D., and Thomas.
- Thomas, Gerald A.: *See*—  
Blume, Paul W., Thomas, and Baillio.
- Thomas, Hal M., Santa Monica, and J. S. D'Amico, Los Angeles, Calif., assignors to Douglas Aircraft Company, Inc. Ammunition chute. 2,428,594; Oct. 7.
- Thomas, Harry E., Haddonfield, N. J., assignor to Radio Corporation of America. Variometer. 2,414,280; Jan. 14.
- Thomas, Harry E., Haddonfield, N. J., assignor to Radio Corporation of America. Multiple pulse characteristic communication system. 2,415,918; Feb. 18.
- Thomas, Harry E., Haddonfield, N. J., assignor to Radio Corporation of America. Multiple pulse characteristic communication system. 2,415,919; Feb. 18.
- Thomas, Harry E., Haddonfield, N. J., assignor to Radio Corporation of America. Multiple pulse characteristic communication system. 2,415,920; Feb. 18.
- Thomas, Harry J., Greensboro, N. C. Car rerailer. 2,241,170; May 27.
- Thomas, Henry A.: *See*—  
Whittaker, Croyden M., Thomas, Wilcock, and Tattersfield.
- Thomas, James C., Jr., Plainview, Tex. Dumping carrier. 2,431,090; Nov. 18.
- Thomas, John W., Springfield, Ohio. Tool holder. 2,422,375; June 17.
- Thomas, John Wimberly, Dublin, Ga. Adjustable hand weaving frame. 2,433,307; Dec. 23.
- Thomas, Lloyd R., assignor to The Youngstown Foundry and Machine Company, Youngstown, Ohio. Roller leveller machine. 2,429,142; Oct. 14.
- Thomas, Mark H., assignor of one-half to United Dairies Limited, London, England. Construction of roofs and their supports. 2,433,677; Dec. 30.
- Thomas, Orrin H., Williamsport, Pa. Breaker point assembly. 2,416,655; Feb. 25.
- Thomas, Oscar H., W. H. O'Neal, and F. P. Sword, Wichita, Kans. Support for fishing poles. 2,419,378; Apr. 22.
- Thomas, Percival E., Worcester Park, assignor to Sterling Industries Limited, London, England. Pipe coupling. 2,416,967; Mar. 4.
- Thomas, Phillips, Edgewood, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Position indicating apparatus. 2,414,566; Jan. 21.
- Thomas, Ralph B., Beverly, assignor to Hygrade Sylvania Corporation, Salem, Mass. Apparatus for lamp bulb sealing. 2,432,491; Dec. 9.
- Thomas, Robert B., Wichita, Kans. Multicolored electric flashlight. 2,431,091; Nov. 18.
- Thomas, Robert M.: *See*—  
Calfee, John D., and Thomas.
- Sparks, William J., and Thomas.
- Thomas, Robert M., Union, and D. C. Field, Linden, N. J., assignors, by mesne assignments, to Jasco, Incorporated. Coagulating latices of synthetic rubberlike materials. 2,426,127; Aug. 19.
- Thomas, Samuel E., and W. R. Guthrie, Allentown, Pa. Manufacturing long fiber into yarn. 2,418,995; Apr. 15.
- Thomas, Samuel E., and W. R. Guthrie, assignors to Lehigh Spinning Company, Allentown, Pa. Apparatus for manufacturing long fibre into yarn. 2,418,996; Apr. 15.
- Thomas, Samuel E., and W. R. Guthrie, assignors to Lehigh Spinning Company, Allentown, Pa. Apparatus for manufacturing long fiber into yarn. 2,418,997; Apr. 15.
- Thomas, Samuel E., and W. R. Guthrie, assignors to Lehigh Spinning Company, Allentown, Pa. Apparatus for manufacturing long fibre into yarn. 2,418,998; Apr. 15.
- Thomas, Thomas H., South Bend, Ind. Pressure fluid servomotor. 2,421,726; June 3.
- Thomas, Thomas H., and E. R. Price, assignors to Bendix Aviation Corporation, South Bend, Ind. Automatic brake control. 2,423,057; June 24.
- Thomas, Vincent T.: *See*—  
Patterson, Henry B., and Thomas.
- Thomas, Walter L.: *See*—  
Blake, Robert E., Grange, and Thomas.
- Thomas, William, San Francisco, Calif. Utility bevel structure. 2,414,777; Jan. 21.
- Thomas, William A., assignor to Blaw-Knox Company, Pittsburgh, Pa. Apparatus for feeding granular material into a fluid stream. 2,420,388; May 13.
- Thomas's, assignee, et al.: *See*—  
Howlett, Edward J.
- Thommen, Hans, and A. Halm, assignors to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Gas blast circuit breaker. 2,417,274; Mar. 11.
- Thompson, Addison R., New Orleans, La. Beverage dispenser. 2,413,736; Jan. 7.
- Thompson, Albert S., Swarthmore, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Powerplant apparatus. 2,418,488; Apr. 8.
- Thompson, Albert T., New Orleans, La. Receptacle closure. 2,430,542; Nov. 11.
- Thompson, Albert T., New Orleans, La. Beverage carbonating and dispensing container. 2,432,261; Dec. 9.
- Thompson, Alfred E., assignor to Creed and Company Limited, Croydon, England. Telegraph system. 2,417,847; Mar. 25.
- Thompson, Benjamin F., assignor of one-half to A. Lutzen, Jacksonville, Fla. Beveling and shaping ship framework. 2,431,971; Dec. 2.
- Thompson, Benton F., Naugatuck, Conn. Waterproof wrap-around shoe covering. 2,432,947; Dec. 16.
- Thompson, Boyce, Institute for Plant Research, Inc., assignee: *See*—  
Harvill, Edward.
- Thompson, Donald C., R. V. Dodge, Jr., and S. C. Nichols, Roanoke, Va., assignors to American Viscose Corporation, Wilmington, Del. Apparatus for cutting fibers. 2,427,167; Sept. 9.
- Thompson, Donald R., Ontario, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Making nonrigid gels. 2,421,093; May 27.
- Thompson, Earl A., Bloomfield Hills, assignor to General Motors Corporation, Detroit, Mich. Rotary hydraulic coupling of the turbine type. 2,430,258; Nov. 4.
- Thompson, Elmer B., assignor to Globe Hoist Company, Des Moines, Iowa. Hoist. 2,423,954; July 15.
- Thompson, Elmer B., assignor to Globe Hoist Company, Des Moines, Iowa. Vehicle hoist. 2,424,673; July 29.
- Thompson, Elmer B., and F. A. Gessler, assignors to Globe Milker, Inc., Des Moines, Iowa. Milking machine. 2,427,312; Sept. 9.
- Thompson, Ernest H., Winnetka, assignor to Johnson Fare Box Company, Chicago, Ill. Check registering device. 2,414,619; Jan. 21.
- Thompson, George L., and L. A. Cejka, Avenal, Calif. Apparatus for lifting fluid. 2,416,359; Feb. 25.
- Thompson, Glenn S., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Engine starter. 2,422,319; June 17.
- Thompson Grinder Company, The, assignee: *See*—  
Wilson, John C.
- Thompson, Herbert H., Manhasset, N. Y., assignor to Sperry Gyroscope Company, Inc. Slave directional gyroscope. 2,421,042; May 27.
- Thompson, Herried L., Portland, Ore. Fifth wheel for vehicles. 2,416,502; Feb. 25.
- Thompson, Ivan P.: *See*—  
Bucknam, James H., and Thompson.
- Thompson, James H., Pittsburgh, Pa. Concealed pocket for garments. 2,428,477; Oct. 7.
- Thompson, John S., and R. R. Tanner, assignors to Parker Rust Proof Company, Detroit, Mich. Corrosion-resistant metallic article and making the same. 2,418,608; Apr. 8.
- Thompson, Joseph K., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric coil testing device. 2,432,948; Dec. 16.
- Thompson, Leland E., Merchantville, N. J., assignor to Radio Corporation of America. Multiplex system having channels added at a relay station. 2,421,727; June 3.



- Thompson, Leslie E., and A. Jenkins, London, England, assignors, by mesne assignments, to The Union Switch and Signal Company, Swissvale, Pa. Rectifying detector for high-frequency alternating electric currents. 2,432,594; Dec. 16.
- Thompson, Louis A., Rocky River, assignor to N E A Service, Inc., Cleveland, Ohio. Method and apparatus for making color separation negatives. 2,415,051; Jan. 28.
- Thompson, Louis V.: *See*—  
Haller, John, and Thompson.
- Thompson, Lyman F., Fayetteville, Ark. Needle. 2,422,269; June 17.
- Thompson, Martin A., assignor of one-half to J. V. Gregg, Davenport, Iowa. Vending machine. 2,426,956; Sept. 2.
- Thompson, Marvin R., Great Neck, N. J. Accousti, Astoria, Long Island, and C. T. Ichniowski, assignors to William R. Warner & Co., Inc., New York, N. Y. Propanediol solution of digitalis. 2,415,312; Feb. 4.
- Thompson, Marvin R., Great Neck, assignor to William R. Warner & Co. Inc., New York, N. Y. Extracting physiologically active principles. 2,432,217; Dec. 9.
- Thompson, Max C., South Pasadena, Calif. Cleaning gun. 2,420,109; May 6.
- Thompson, Orville L., assignor to De Forest's Training, Inc., Chicago, Ill. Selective-speed telegraph code instruction system. 2,420,802; May 20.
- Thompson, Perry R., Houston, Tex. Hand shield. 2,414,247; Jan. 14.
- Thompson, Peter, New Orleans, La. Ballast structure for cargo ships. 2,428,050; Sept. 30.
- Thompson Products, Inc., assignee: *See*—  
Booth, James H.  
Catalano, William A.  
Colwell, Archie T., and Engeman.  
Cummings, Robert E.  
Curtis, Russell R., and Morgan.  
Graham, Matthew P.  
Graham, Matthew P., and Booth.  
Hallead, Mervil.  
Johnson, Paul P.  
Novak, Louis P.  
Ricks, Bernard E.  
Snyder, Jacob R.  
Snyder, Jacob R., and Norton.  
Snyder, Jacob R., and Pease.  
Van Epps, John N., Kraus, and Magyar.  
Venditty, Anthony.  
Wischhusen, John, and Dolch.
- Thompson, Robert H. S.: *See*—  
Peters, Rudolph A., Stocken, Thompson, Woodward, Millidge, and Gasson.
- Thompson, Robert T.: *See*—  
Brakel, Leslie, and Thompson.
- Thompson, Roy E., South Gate, Calif. Dual control power unit. 2,429,702; Oct. 28.
- Thompson, Roy E., South Gate, and J. K. Morris, Los Angeles, Calif. Driving gear unit. 2,527,168; Sept. 9.
- Thompson, Royal E.: *See*—  
Loufersweiler, William J., and Thompson.
- Thompson, Stanley R., Washington, Iowa. Water pump seal surface grinding pilot. 2,418,206; Apr. 1.
- Thompson, Tom H., Larchmont, assignor to Builder-Thompson Engineering and Research Corporation, New York, N. Y. Mechanical movements. 2,414,003; Jan. 7.
- Thompson, Tom H., Mamaroneck, N. Y., assignor to Thompson-Wade Corporation, Detroit, Mich. Drive and pitch control mechanism for helicopter rotors. 2,427,981; Sept. 23.
- Thompson, Thomas D.: *See*—  
Caesar, George V., and Thompson.
- Thompson-Wade Corporation, assignee: *See*—  
Thompson, Tom H.
- Thompson, William I.: *See*—  
Gohr, Edwin J., Campbell, Graham, and Thomson.
- Thompson, William I., Elizabeth, and D. L. Campbell, Short Hills, N. J., assignors to Standard Oil Development Company. Regeneration of powdered catalyst. 2,417,275; Mar. 11.
- Thomsen, Alfred M., San Francisco, Calif. Making chlorine. 2,415,152; Feb. 4.
- Thomsen, Alfred M., San Francisco, Calif. Processing impure solutions of sucrose. 2,432,595; Dec. 16.
- Thomsen, Hugo, Washington, D. C. Binder. 2,416,856; Mar. 4.
- Thomson, Alex, administrator: *See*—  
White, Sidney Y.
- Thomson, Byron C., Labadieville, La. Cane piler. 2,427,313; Sept. 9.
- Thomson, E. Craig, Boston, assignor to Photoswitch, Incorporated, Cambridge, Mass. System of flat electrodes. 2,426,252; Aug. 26.
- Thomson, Elihu C., Boston, assignor to Combustion Control Corporation, Cambridge, Mass. Flame failure safeguard. 2,416,781; Mar. 4.
- Thomson, Elihu C., Boston, assignor to Combustion Control Corporation, Cambridge, Mass. Temperature compensated switch. 2,425,164; Aug. 5.
- Thomson, Elihu C., Boston, assignor to Photoswitch, Inc., Cambridge, Mass. System of light modulation. 2,432,104; Dec. 9.
- Thomson, Marshall, Williamsville, assignor to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 2,417,575; Mar. 18.
- Thomson, Robert M., Miami, Fla. Cargo carrier plane and system. 2,415,975; Feb. 18.
- Thomson, Robin H. K., Kilwinning, and S. R. Swift, Saltcoats, Scotland, assignors to Imperial Chemical Industries Limited. Manufacture of viscous protein solutions for the production of artificial filaments. 2,417,576; Mar. 18.
- Thomson, Robin H. K., Kilwinning, Scotland, assignor to Imperial Chemical Industries Limited. Improving the extensibility and strength of hardened artificial filaments, films, and like thin materials having a protein basis. 2,421,302; May 27.
- Thomson, Thomas: *See*—  
Holman, Arthur T., and Thomson.
- Thoren, Robert E., Seattle, Wash. Cable clamp and sealing device. 2,424,067; July 15.
- Thornburg, Walter L.: *See*—  
Cook, James, McSpadden, and Thornburg.
- Thornburgh, Ivan D., Leonia, N. J., assignor to American Can Company, New York, N. Y. Tear-strip type container and reclosure therefor. 2,430,035; Nov. 4.
- Thornburgh, Ivan D., Leonia, and F. W. Goodrich, Newark, N. J., assignors to American Can Company, New York, N. Y. Tear-strip type container and reclosure therefor. 2,430,036; Nov. 4.
- Thorne, Marvin E.: *See*—  
Lieber, Eugene, and Thorne.
- Thorngren, Alfred, West Los Angeles, Calif., assignor to Douglas Aircraft Company, Inc. Rivet and applying same. 2,432,949; Dec. 16.
- Thornton, John J., assignee, et al.: *See*—  
Gregoir, Resta S.
- Thornton, Stuart R., San Francisco, Calif. Combined spectacles and filters therefor. 2,423,272; July 1.
- Thorp, Joel R., assignor to The Fulton Company, West Allis, Wis. Progressively perforating a sheet of metal. 2,414,567; Jan. 21.
- Thorp, Joel R., assignor to The Fulton Company, West Allis, Wis. Steering wheel spinner knob. 2,432,262; Dec. 9.
- Thorpe, Christopher H. M., Huyton, assignor to British Insulated Cables Limited, Prescott, Lancashire, England. Linear measuring device. 2,421,440; June 3.
- Thorsen, Carsten, Seattle, Wash. Oarlock. 2,413,895; Jan. 7.
- Thorsen, E. M., assignee, et al.: *See*—  
Bruen, George C.
- Thorud, Marvin, Evanston, Ill. Pastry shell cutter. 2,415,976; Feb. 18.
- Thostenson, Lewis D., Inglewood, assignor to Salsbury Corporation, Los Angeles, Calif. Brake control mechanism. 2,420,110; May 6.
- Thostenson, Lewis D., Inglewood, assignor to Salsbury Corporation, Los Angeles, Calif. Throttle control mechanism. 2,420,111; May 6.
- Threedy, Clarence E., assignee, trustee: *See*—  
Tratsch, Walter A.
- Three-In-One Doll Corporation, assignee: *See*—  
Winterfeld, Elsie G.
- Thress, James D., Roanoke, Va., assignor to C. M. O'Boyle, Wilmington, Del. Freight car truck assembly hook device. 2,425,706; Aug. 12.
- Throckmorton, John W.: *See*—  
Wallis, John S., and Throckmorton.
- Thronson, Edgar A., Lewiston, and A. I. Mendolia, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification of methyl chloride. 2,421,441; June 3.
- Thrun, Lawrence O., Pine City, Minn. Hone. 2,422,759; June 24.
- Thumin, Carl, Yeaton, and A. C. Boisseau, Lansdowne, Pa., assignors to General Electric Company. Circuit breaker operating system. 2,418,739; Apr. 8.
- Thunell, Karl H.: *See*—  
Rost, Helge F., Thunell, Vigren, and Claesson.
- Thuras, Albert L., New London, Conn., assignor to United States of America, as represented by the Secretary of the Navy. Wood core magnetostriction hydrophone. 2,431,846; Dec. 2.
- Thurber, Bernard P., Sr., Denver, Colo. Antifriction medium for pneumatic tires. 2,428,478; Oct. 7.
- Thurman, Benjamin H., Charlotte, N. C., assignor, by mesne assignments, to B. Clayton, Houston, Tex., doing business as Refining Unincorporated. Recovery of valuable fractions from glyceride oils. 2,415,313; Feb. 4.
- Thurman, Benjamin H., Charlotte, N. C., assignor, by mesne assignments, to Benjamin Clayton, Houston, Tex., doing business as Refining Unincorporated. Manufacture of greases. 2,433,636; Dec. 30.
- Thurman, Tandy B., Kansas City, Mo. Shutter. 2,433,583; Dec. 30.
- Thurnauer, Hans, and J. Dederick, assignors to American Lava Corporation, Chattanooga, Tenn. Insulating materials. 2,429,588; Oct. 21.
- Thurston, Frank R.: *See*—  
Aughtie, Frank, Thurston, and Coleman.
- Thurston, Jack T.: *See*—  
Kaiser, Donald W., and Thurston.
- Thurston, Jack T., Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y. Cyanuric chloride preparation. 2,416,656; Feb. 25.
- Thurston, Jack T., Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y. Alicyclic guanamines. 2,423,071; June 24.



- Thurston, Jack T., Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y. Polymethylene diguanamines. 2,423,353; July 1.
- Thurston, Jack T., Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y. Aryl guanamines. 2,427,314; Sept. 9.
- Thurston, Jack T., Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y. Carboxy polymethylene guanamines. 2,427,315; Sept. 9.
- Thurston, Jack T., and D. W. Kaiser, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y. Esters of  $\omega$ -cyanoguanyliminodithiocarbonic acid. 2,418,959; Apr. 15.
- Thurston, Jack T., Cos Cob, and D. W. Kaiser, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Azo guanamines. 2,425,286; Aug. 5.
- Thurston, Jack T., Riverside, and D. E. Nagy, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Aryl carboxyguanamines. 2,425,287; Aug. 5.
- Thurston, Jack T., Cos Cob, and D. E. Nagy, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Unsaturated carboxy guanamines. 2,427,316; Sept. 9.
- Thurston, Paul L., H. F. Hilker, and H. Welker, Martinsburg, W. Va., assignors to Interwoven Stocking Company, New Brunswick, N. J. Method and machine for making seamless hosiery. 2,421,816; June 10.
- Thurston, Paul L., H. F. Hilker, and H. Welker, Martinsburg, W. Va., assignors to Interwoven Stocking Company, New Brunswick, N. J. Seamless hosiery. 2,421,817; June 10.
- Thurston, Paul L., and H. Welker, Martinsburg, W. Va., assignors to Interwoven Stocking Company, New Brunswick, N. J. Circular knitting machine. 2,430,792; Nov. 11.
- Thwaites, Earl E., Houston, Tex. Suction attachment for dental lathes. 2,419,744; Apr. 29.
- Thyreen, Paul I.: *See*—  
Gleitz, Herbert, Thyreen, and Miller.
- Tibbals, Charles E., Bluefield, W. Va. Entry driving machine. 2,422,053; June 10.
- Tibbetts Laboratories, Inc., assignee: *See*—  
Tibbetts, Raymond W.
- Tibbetts Laboratories, Incorporated, assignee: *See*—  
Tibbetts, Raymond W.
- Tibbetts, Raymond W., assignor to Tibbetts Laboratories, Incorporated, Camden, Maine. Piezoelectric device. 2,416,887; Mar. 4.
- Tibbetts, Raymond W., assignor to Tibbetts Laboratories, Inc., Camden, Maine. Piezoelectric device. 2,421,586; June 3.
- Tibiletti, Cageton I., Victoria, Tex. Sandal vamp. 2,421,818; June 10.
- Tichota, Rudolph V., Dodge, Nebr. Electric insulator for fence posts. 2,430,259; Nov. 4.
- Tichy, Vladimir L., Cleveland, Ohio. Tendering meat. 2,418,914; Apr. 15.
- Tide Water Associated Oil Company, assignee: *See*—  
Carter, John C.  
Lewis, Arthur W.  
Smith, John O., Jr.  
Waugh, Stanley P.
- Tiede, William A., Bridgeport, Mich. Chuck. 2,421,226; May 27.
- Tiedemann, Julius B., assignor to A. O. Smith Corporation, Milwaukee, Wis. Making propeller blades. 2,422,810; June 24.
- Tierney, William J., assignor to The Atwood Vacuum Machine Company, Rockford, Ill. Pintle hook for coupling devices. 2,426,532; Aug. 26.
- Tift, Emerson B., assignor to Draper Corporation, Hopedale, Mass. Loom shuttle. 2,423,421; July 1.
- Tiger, Howard L.: *See*—  
Goetz, Paul C., and Tiger.
- Tiger, Howard L., Hewlett, assignor to The Permutit Company, New York, N. Y. Method of and apparatus for treating aqueous solution of electrolytes. 2,422,054; June 10.
- Tigrett, Francis T., assignee, et al.: *See*—  
Harold, Charles.
- Tigrett, John B., assignee, et al.: *See*—  
Harold, Charles.
- Tilbrook, Gilmore L., Washington, D. C. Rythmeter for determining sterility and fertility. 2,418,207; Apr. 1.
- Tilden, Sydney G., Stewart Manor, F. D. Snell, New York, and J. M. Fain, Belle Harbor, assignors to Foster D. Snell Inc., Brooklyn, N. Y. Friction element assembly. 2,426,421; Aug. 26.
- Tiley, John W., assignor to Philco Corporation, Philadelphia, Pa. Reflex harmonic generator. 2,422,146; June 10.
- Tilley, William J., assignee: *See*—  
Ferguson, Robert O.
- Tillman, George, Kinsville, Tex. Ventilator for buildings. 2,423,739; July 8.
- Tillman, John E., Stratford, Conn., assignor to General Electric Company. Radio frequency transformer. 2,433,004; Dec. 23.
- Tilly, Henry L., New Orleans, La. Railroad plate with spikes. 2,417,385; Mar. 11.
- Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Glass annealing. 2,418,489; Apr. 8.
- Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Glass composition and method of making same. 2,423,128; July 1.
- Time, Incorporated, assignee: *See*—  
Coleman, Roy E.
- Times Facsimile Corporation, assignee: *See*—  
Asten, William P.  
Cooley, Austin G.  
Shonnard, John R.
- Timken-Detroit Axle Company, The, assignee: *See*—  
Buckendale, Lawrence R.  
Buckendale, Lawrence R., and Super.  
Hall, Cortice H.
- Timken Roller Bearing Company, The, assignee: *See*—  
Buckwalter, Tracy V.  
Eastburg, Clifford L.  
Kifer, Ward G.  
Riblet, Robert M.  
Rundt, John W.
- Timmerman, Carl H. O., Tulsa, Okla. Carcass scraping machine. 2,432,459; Dec. 9.
- Timoney, Andrew J., Flushing, assignor of one-third to F. G. Kirby, one-third to W. Bach, Elmhurst, one-tenth to J. Timoney, one-tenth to Mrs. E. Cormack, Bronx, and one-tenth to Mrs. M. Burgin, Flushing, N. Y. Photographic apparatus. 2,428,399; Oct. 7.
- Timoney, James, assignee, et al.: *See*—  
Timoney, Andrew J.
- Tindale, John G., Iola, Kans. Amusement target. 2,432,596; Dec. 16.
- Tindall, John B., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Higher esters of chloro nitro alcohols. 2,427,821; Sept. 23.
- Tindall, John B., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Preparing 1-aryl-2-oxoalkanes. 2,427,822; Sept. 23.
- Tindall, John B., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Preparation of 4-methyl-4-alkoxy-2-pentanones. 2,430,436; Nov. 4.
- Tindell, Oliver T., Jr., Chattanooga, Tenn. Magazine stove. 2,419,379; Apr. 22.
- Tingdale, Warren, Chicago, Ill., assignor to National Transits Inc. Display device. 2,422,760; June 24.
- Tinker, John M., Wilmington, Del., and O. Stallmann, Bridgeton, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of anthrimides. 2,420,022; May 6.
- Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Fastening device. Re. 22,926; Oct. 7.
- Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Fastening device. 2,414,986; Jan. 28.
- Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Electrical terminal connection. 2,417,718; Mar. 18.
- Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Electrical conduit clamp. 2,423,627; July 8.
- Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Fastening device. 2,426,799; Sept. 2.
- Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Fastening device. 2,430,543; Nov. 11.
- Tinnerman, George A., assignor to Tinnerman Products, Inc., Cleveland, Ohio. Combined nut fastener and grounding member. 2,432,492; Dec. 9.
- Tinnerman Products, Inc., assignee: *See*—  
Flora, Laurence H., and Kelley.  
Judd, Charles H.  
Tinnerman, George A.
- Tinsley, Charles: *See*—  
Goodwin, Leslie C., and Tinsley.
- Tippetts, Emerson A., Richmond, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing reinforcing elements. 2,419,922; Apr. 29.
- Tipton, Chauncey H.: *See*—  
Edgar, Robert L., and Tipton.
- Tipton, Elizabeth B., executrix: *See*—  
Tipton, William D.
- Tipton, John J., Paola, Kans. Pipe clamp. 2,433,172; Dec. 23.
- Tipton, William D., Stoneleigh, Md.; E. B. Tipton, executrix of said W. D. Tipton, deceased. Transmission. 2,430,089; Nov. 4.
- Tip Top Toy Company, assignee: *See*—  
Robins, Adolf.
- Tirrell, Harry A., Denver, Colo. Rod wrapping device. 2,430,892; Nov. 18.
- Tischbein, Wilhelm: *See*—  
Nelles, Johannes, Bayer, Tischbein, and Baehren.
- Tishler, Max: *See*—  
Ladenburg, Kurt, Babson, and Tishler.  
Weijlard, John, Tishler, and Erickson.
- Tishler, Max, assignor to Merck & Co., Inc., Rahway, N. J. Tetraacylribonyl-xylyldine. 2,420,210; May 6.
- Tishler, Max, assignor to Merck & Co., Inc., Rahway, N. J. Tetraacylribonyl-xylyldine. 2,424,341; July 22.
- Tishler, Max, assignor to Merck & Co., Inc., Rahway, N. J. Tetraacylribonyl chloride. 2,428,437; Oct. 7.



- Tishler, Max, Rahway, N. J., and J. W. Wellman, Cleveland Heights, Ohio, assignors to Merck & Co., Inc., Rahway, N. J. 1-polyacyloxyalkylamino-2-amino-4,5-dimethylbenzene and preparing the same. 2,417,143; Mar. 11.
- Tisman, Abraham, Bronx, N. Y. Battery terminal connector. 2,431,092; Nov. 18.
- Titan Abrasives Company, assignee: *See*—  
Doermann, Albert J.
- Titan Manufacturing Co., Inc., assignee: *See*—  
Reiser, Alfred A.
- Titan Manufacturing Company, assignee: *See*—  
Farrell, Leo E.
- Titan Valve and Manufacturing Company, The, assignee: *See*—  
Van Denberg, Thomas F., and Selby.
- Titanium Alloy Manufacturing Company, The, assignee: *See*—  
Wainer, Eugene.
- Titflex, Inc., assignee: *See*—  
Anderson, John W.
- Ingalls, David.
- Titelox Manufacturing Company, assignee: *See*—  
Lord, Francis LeB.
- Titlestad, Nicolay, White Plains, assignor to Chemical Construction Corporation, New York, N. Y. Atomization of strong sulfuric acid. 2,417,386; Mar. 11.
- Titzell, Geo. G., Jr., assignee: *See*—  
Nicol, John M.
- Tjomsland, Eli H., Maywood, N. J. Shuffleboard weight. 2,425,966; Aug. 19.
- Tobacco By-Products and Chemical Corporation, assignee: *See*—  
Arnold, Robert B.
- Tobacco, Frank J., Staten Island, N. Y. Shoe with channeled welt. 2,421,442; June 3.
- Tobe Deutschmann, assignee: *See*—  
Nordberg, Ernst A.
- Tobe Deutschmann Corporation, assignee: *See*—  
Sutter, Erwin L.
- Tobey, Raymond E., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Refrigeration apparatus including defrosting means. 2,426,578; Aug. 26.
- Tobey, Solomon, Camden, N. J., and J. J. Mank, Newark, and S. Zallea, Wilmington, assignors to Zallea Brothers & Johnson, Wilmington, Del. Expansion joint. 2,414,987; Jan. 28.
- Tobias, Herrmann B., Washington, D. C. Checking device for roller supported doors. 2,423,129; July 1.
- Tobin, William B., Los Angeles, Calif. Movable combination derrick floor and engine base. 2,420,803; May 20.
- Todd, Floyd, Drexel Hill, Pa. Vacuum distillation apparatus and pressure regulator therefor. 2,419,042; Apr. 15.
- Todd, Gibbon H., Charlotte, N. C. Golf club carrier. 2,415,314; Feb. 4.
- Todd, Harry J., Long Island City, N. Y. Window washer's seat. 2,426,070; Aug. 19.
- Todd, James M., Newport News, Va. Automatic cut-out for motion-picture projecting machines. 2,430,893; Nov. 18.
- Todd, William L., Fort Thomas, Ky. Self-centering screw. 2,418,960; Apr. 15.
- Toettcher, Fred C., Fishkill, assignor to The Texas Company, New York, N. Y. Manufacture of lubricating oil. 2,433,797; Dec. 30.
- Toggenburger, John, Hartford, Conn., assignor to Underwood Corporation, New York, N. Y. Ribbon feed for typewriting machines. 2,425,967; Aug. 19.
- Tognola, Tullio, Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Ignition coil. 2,418,531; Apr. 8.
- Tolbert, William P., assignor to Anthes Force Oiler Company, Fort Madison, Iowa. Adjustable bracket. 2,419,923; Apr. 29.
- Tole, Ernest W., administrator, et al.: *See*—  
Browne, Cecil O., and Blumlein.
- Toledo Automatic Brush Machine Company, assignee: *See*—  
Jobst, Conrad.
- Toledo Scale Company, assignee: *See*—  
Bohannon, Robert S.
- Bradley, Robert O., and Walther.
- Gilchrist, Fred W., Kendall, and Bradley.
- Hem, Halvor O.
- Leonard, Henry K.
- Williams, Lawrence S.
- Toledo Stamping and Manufacturing Company, assignee: *See*—  
Ronfeldt, Henry C.
- Tolk, John F., assignor to O. S. Petty, San Antonio, Tex. Position dampened seismometer. 2,424,724; July 29.
- Tollefsen, George R., Brooklyn, N. Y. Sludge pumping apparatus. 2,433,408; Dec. 30.
- Tollefson, Richard C., Stamford, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Hydrolysis of ethyl ether. 2,413,802; Jan. 7.
- Tollefson, Richard C., Stamford, Conn., assignor to Air Reduction Company, Incorporated. Production of 1,3-butyleneglycol. 2,419,300; Apr. 22.
- Tolmie, Edgar S., Fairfield, Conn., assignor to Remington Rand Inc., Buffalo, N. Y. Converter. 2,427,111; Sept. 9.
- Tolson, William A.: *See*—  
Kell, Ray D., and Tolson.
- Tolson, William A., Princeton, N. J., assignor to Radio Corporation of America. Control of servo mechanism. 2,421,663; June 3.
- Tolson, William A., Princeton, N. J., assignor to Radio Corporation of America. Heat detecting system. 2,431,625; Nov. 25.
- Tom, Theodore B.: *See*—  
Adams, Chester E., and Tom.
- Tomlin, Stanley G., London, W. C. 2, assignor to Standard Telephones and Cables Limited, London, England. Ultra high frequency amplifier. 2,419,800; Apr. 29.
- Tomlin, Stanley G., London, W. C. 2, assignor to Standard Telephones and Cables Limited, London, England. Detector of modulated carrier frequencies. 2,421,043; May 27.
- Tomlinson, George H., assignor to Howard Smith Paper Mills Limited, Montreal, Quebec, Canada. Manufacture of ethyl alcohol from sulphite residual liquor. 2,429,143; Oct. 14.
- Tompkins, Edwin H., New York, N. Y. Therapeutic device. 2,425,655; Aug. 12.
- Tompkins, Francis M., St. Paul, Minn. Cathode-ray steam generator. 2,426,533; Aug. 26.
- Tompkins, John: *See*—  
Haig, Paul, Schillo, and Tompkins.
- Tondreau, Albert W., North Hollywood, Calif., assignor to Warner Bros. Pictures, Inc., New York, N. Y. Camera. 2,422,270; June 17.
- Tongberg, Carl O.: *See*—  
Fulton, Stewart C., Tongberg, and Reeves.
- Tonkin, Charles J., Oakland, assignor to Shell Development Company, San Francisco, Calif. Soil improving method. 2,424,520; July 22.
- Tonn, Christ, assignor to H. V. Keller Manufacturing Co., Minneapolis, Minn. Ironing table having folding supports. 2,423,628; July 8.
- Tooby, George, Prentice, Wis., assignor to Richard C. Lilly, St. Paul, Minn. Desiccating method and apparatus. 2,422,706; June 24.
- Toombs, John A., Grande Prairie, Alberta, Canada. Toothbrush holder. 2,425,579; Aug. 12.
- Toomey, Thomas C., West New Brighton, Staten Island, N. Y., and J. G. Brandt, Westfield, assignors to The Babcock & Wilcox Company, Jersey City, N. J. Fluid heat exchange apparatus. 2,427,031; Sept. 9.
- Tooms, H. Cole, Memphis, Tenn., assignor to The A. C. Gilbert Company, New Haven, Conn. Coupling pin for toy parts. 2,426,326; Aug. 26.
- Toorell, Sture: *See*—  
Grip, Erik, and Toorell.
- Toorks, William P., assignor to Sylvania Electric Products Inc., Salem, Mass. Electron emissive cathode. 2,433,821; Dec. 30.
- Tootal Broadhurst Lee Company Limited, assignee: *See*—  
Foulds, Robinson P., and Marsh.
- Nield, Leslie C.
- Tornberg, Henning T., Ridgewood, N. J., assignor to Modern Plastic Machinery Corporation, Wilmington, Del. Tension equalizer for plastic extruders. 2,421,132; May 27.
- Tornberg, Isidore, and Charles L. Ricards, assignors to Wood Newspaper Machinery Corporation, Plainfield, N. J. Registering and trimming of printing plates. 2,425,580; Aug. 12.
- Tornblom, Nils A., Chicago, Ill., assignor to Appleton Electric Company. Cushioned receptacle for light bulbs. 2,431,895; Dec. 2.
- Tornquist, Earl L., Elmhurst, assignor of one-half to J. A. Diener, Evanston, Ill. Electric motor speed control system and method. 2,422,147; June 10.
- Torrence, George P., Shaker Heights, assignor to Industrial Rayon Corporation, Cleveland, Ohio. Thread advancing reel. 2,425,136; Aug. 5.
- Torrence, George W., Peoria, Ill. Means for adding values. 2,420,762; May 20.
- Torresen, Carel T., Santa Monica, Calif. Clamp. 2,421,443; June 3.
- Torresen, Carel T., Santa Monica, Calif. Making expandable rivets. 2,426,422; Aug. 26.
- Torrington Company, The, assignee: *See*—  
Broberg, Gustave T.
- Torrington Company, Inc., The, assignee: *See*—  
Hendricks, Cornelius.
- Torrington Manufacturing Co., The, assignee: *See*—  
Place, Charles I.
- Torrington Manufacturing Company, The, assignee: *See*—  
Froelich, Gustave H.
- Torsch, Charles E., Merchantville, N. J., assignor to Radio Corporation of America. Deflection device for cathode ray tubes. 2,428,947; Oct. 14.
- Torsch, Charles E., Merchantville, and E. B. Cain, Collingswood, N. J., assignors to Radio Corporation of America. High-voltage transformer. 2,428,948; Oct. 14.
- Toth, Emerick, Cheverly, Md. Hum elimination means. 2,430,894; Nov. 18.
- Totney, Frank, Hillbrow, assignor to Industrial Development Corporation of South Africa, Limited, Johannesburg, Transvaal, Union of South Africa. Treatment of wool-washing effluent. 2,421,094; May 27.



- Totty, Robert A., Petersburg, Va. Extension trackway for wardrobe. 2,417,387; Mar. 11.
- Touborg, Jens, Tecumseh, Mich. Electric terminal for hermetic compressors. 2,425,404; Aug. 12.
- Touborg, Jens, assignor to Tecumseh Refrigeration Sales and Engineering Company, Tecumseh, Mich. Refrigerating system and drying means therefor. 2,430,692; Nov. 11.
- Touchett, Lawrence P. A., Fond du Lac, Wis. Paint applicator. 2,427,581; Sept. 16.
- Toulmin, Harry A., Jr., assignor, by mesne assignments, to Chemical Developments Corporation, Dayton, Ohio. Apparatus for coating metals. 2,424,261; July 22.
- Toulmin, Harry A., Jr., assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Ice tray. 2,432,597; Dec. 16.
- Toulmin, Harry A., Jr., Oakwood, assignor to Chemical Developments Corporation, Dayton, Ohio. Pigmented gel composition. 2,428,896; Oct. 14.
- Touloumis, Simon, assignor to Cluett Peabody & Co., Inc., Troy, N. Y. Convertible shirt collar. 2,418,058; Mar. 25.
- Touraton, Emile R., Lyon, France, assignor to International Standard Electric Corporation, New York, N. Y. Insulating spacer for coaxial cables. 2,428,051; Sept. 30.
- Touraton, Emile R., Lyon, France, assignor to International Standard Electric Corporation, New York, N. Y. Antenna support. 2,428,052; Sept. 30.
- Touraton, Emile R., Lyon, France, assignor to International Standard Electric Corporation, New York, N. Y. Antenna mounting system. 2,429,653; Oct. 28.
- Tourshou, Simeon I., Philadelphia, Pa., assignor to Radio Corporation of America. Production of delayed pulses. 2,418,375; Apr. 1.
- Tourshou, Simeon I., Philadelphia, Pa., assignor to Radio Corporation of America. Pulse-echo radio system testing means. 2,420,211; May 6.
- Tourshou, Simeon I., Philadelphia, Pa., and R. Trachtenberg, Camden, N. J., assignors to Radio Corporation of America. Radio pulse-echo system. 2,432,180; Dec. 9.
- Tousignant, Joseph W., Plattsburg, N. Y. Fire alarm. 2,421,915; June 10.
- Toussaint, Walter J., South Charleston, and J. T. Dunn, Charleston, W. Va., assignors to Carbide and Carbon Chemicals Corporation. Process for making diolefins. 2,421,361; May 27.
- Toussaint, Walter J., South Charleston, W. Va., and H. R. Fife, Mount Lebanon, Pa., assignors to Carbide and Carbon Chemicals Corporation. Mixtures of polyoxyalkylene diols and of making such mixtures. 2,425,845; Aug. 19.
- Touton, Rush D., Wynnwood, assignor to Wurton Machine Company, Philadelphia, Pa. Apparatus for conditioning tobacco. 2,418,281; Apr. 1.
- Towler, Frank H.: See—  
Towler, John M. and F. H.
- Towler, John M. and F. H., Yorkshire, assignors to Electrohydraulic Presses Limited, Rodley, England. Control valve for hydraulic presses. 2,414,568; Jan. 21.
- Towler, John M., Harrogate, and F. H. Towler, Otley, assignors to Electrohydraulic Presses Limited, Rodley, near Leeds, England. Automatic pressure operated hydraulic piston type admission and exhaust valve. 2,421,133; May 27.
- Towmotor Corporation, assignee: See—  
Guerin, Paul R., and Musgrave, Palm, Dwight M.
- Towne, Harold G., Westboro, and L. M. Peterson, Newton, assignors to Dennison Manufacturing Company, Framingham, Mass. Slide box with slidable latch. 2,424,642; July 29.
- Towner Manufacturing Co., assignee: See—  
Martin, Charles H.
- Towner, Stanley H., London, England, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Electromagnetic relay. 2,426,253; Aug. 26.
- Townsend, Albert J., Lima, Ohio. Locomotive truck pivot mechanism. 2,433,308; Dec. 23.
- Townsend, Leyshon W., assignor to Jessop Steel Company, Washington, Pa. Ingot for and making composite articles. 2,424,779; July 29.
- Townsend, Mark A., Lubbock, Tex., assignor to General Electric Company. Starting control for electric discharge devices. 2,425,902; Aug. 19.
- Townsend, Roy C., La Crosse, Wis. Vehicle trailer hitch. 2,414,248; Jan. 14.
- Townsend, Roy C., La Crosse, Wis. Short turn trailer vehicle. 2,431,626; Nov. 25.
- Townsend, Roy C., La Crosse, Wis., assignor to La-Crosse Trailer Corporation. Trailer. 2,431,436; Nov. 25.
- Townson & Mercer Limited, assignee: See—  
Brock, Raymond B.
- Toy, Arthur D. F., Chicago, Ill., assignor to Victor Chemical Works. Unsaturated alkyl esters of aryl phosphonic acids. 2,425,765; Aug. 19.
- Toy, Arthur D. F., Chicago, Ill., assignor to Victor Chemical Works. Unsaturated alkyl esters of alkenyl phosphonic acids. 2,425,766; Aug. 19.
- Trabucco, Vincent R., assignor to Steger Products Manufacturing Corporation, Steger, Ill. Vehicle axle mounting. 2,420,847; May 20.
- Trachtenberg, Robert: See—  
Tourshou, Simeon I., and Trachtenberg.
- Tracy, Wilfred T.: See—  
Kamborian, Jacob S., and Tracy.
- Traffic Transport Engineering, Inc., assignee: See—  
Stuart, Clarence C.
- Tragesser, Herbert R., Shaker Heights, assignor, by mesne assignments, to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Magneto magnetic circuit. 2,419,301; Apr. 22.
- Traill, David, Ardrossan, and A. McLean, West Kilbride, Scotland, assignors to Imperial Chemical Industries Limited. Mothproofing furs. 2,424,068; July 15.
- Trailmobile Company, The, assignee: See—  
Black, James J.
- Trammell, Earl M., Jr.: See—  
Trammell, Earl M., Sr., and E. M., Jr.
- Trammell, Earl M., Sr., and E. M., Jr., St. Louis, Mo. Sash and sash guiding means. 2,426,474; Aug. 26.
- Transit Research Corporation, assignee: See—  
Piron, Emil H.
- Trans-Lux Ad-News Corporation, assignee: See—  
Unkles, Edward H., Roth, and Whitney.
- Transparent-Wrap Machine Corporation, assignee: See—  
Zwoyer, Walter R.
- Transportation Specialties Co., assignee: See—  
Johnston, Charles S.
- Trapet, Maurice, Los Angeles, Calif. Liquid dispensing device, with trap chamber cutoff, axially slidable only. 2,429,003; Oct. 14.
- Trask, Allen, assignee: See—  
Winslow, William B.
- Tratsch, Walter A., assignor to C. E. Threedy, Chicago, Ill., as trustee. Snap-action switch. 2,414,778; Jan. 21.
- Tratsch, Walter A., assignor to C. E. Threedy, Chicago, Ill., as trustee. Coin chute. 2,421,857; June 10.
- Traub, Ernest H., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Color image projection system. 2,417,621; Mar. 18.
- Traupel, Walter, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland. Gas turbine plant. Re. 22,844; Feb. 18.
- Trautman, Charles E., Cheswick, and H. A. Ambrose, Penn Township, Allegheny County, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Prevention of foaming of hydrocarbon oils. 2,416,360; Feb. 25.
- Trautman, Charles E., Cheswick, and H. A. Ambrose, Penn Township, Allegheny County, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Prevention of foaming of hydrocarbon oils. 2,416,503; Feb. 25.
- Trautman, Charles E., Cheswick, and H. A. Ambrose, Penn Township, Allegheny County, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Prevention of foaming of hydrocarbon oils. 2,416,504; Feb. 25.
- Trautman, Charles W.: See—  
Crosby, Lawrence E., and Trautman.
- Trautman, Walter C., Los Angeles, and A. A. Meddock, North Hollywood, Calif., assignors to Bendix Aviation Corporation, South Bend, Ind. Flow equalizer. 2,413,896; Jan. 7.
- Trautner, Nicholas W., St. Paul, Minn. Bicycle locking device. 2,416,505; Feb. 25.
- Trautner, Wagn, Hamilton, Ohio, assignor, by mesne assignments, to Noma Electric Corporation, New York, N. Y. Decorative lights and assembly for vehicles. 2,426,534; Aug. 26.
- Trautvetter, George, Jenkintown, assignor to Heintz Manufacturing Company, Philadelphia, Pa. Bus door. 2,422,447; June 17.
- Trautvetter, George, Jenkintown, assignor to The Budd Company, Philadelphia, Pa. Vehicle seat with leg support. 2,432,072; Dec. 2.
- Trautvetter, George, assignor to The Budd Company, Philadelphia, Pa. Making vehicle inner door panels. 2,430,437; Nov. 4.
- Trautvetter, George, Jenkintown, and F. Lambert, Narberth, assignors to Heintz Manufacturing Company, Philadelphia, Pa. Antislip surface. 2,421,171; May 27.
- Traver, Harry G., Cranford, N. J. Rotary trash cutter and tilling apparatus. 2,430,148; Nov. 4.
- Traver, William A., Barrington, assignor to Franklin Process Company, Providence, R. I. Device for holding packages of yarn or the like in dyeing or similar processes. 2,418,740; Apr. 8.
- Travers, Robert C., assignee: See—  
Tarbell, Woodward.
- Travilla, James C., Jr., Swarthmore, Pa., assignor to General Steel Castings Corporation, Granite City, Ill. Railway truck structure and assembling and disassembling the same. 2,419,473; Apr. 22.
- Travis, Bernard V., and H. A. Jones, Orlando, Fla., dedicated to the free use of the People in the territory of the United States. Insect repellent composition. 2,420,271; May 6.
- Travis, Bernard V., Orlando, Fla., and H. A. Jones, Washington, D. C., dedicated to the free use of the People in the territory of the United States. Insect repellent composition. 2,420,389; May 13.
- Travis, Stella J., Spirit Lake, Iowa. Mail box. 2,423,532; July 8.



- Traylor, George H.: *See*—  
Mosen, Roscoe L., Traylor, Haislip, and Hall.
- Traylor, John B., Denver, Colo. Skip fuse for antitank mines. 2,429,246; Oct. 21.
- Traynor, Bernard J.: *See*—  
Richey, David M., and Traynor.
- Treadway, William I., and M. E. Linxwiler, assignors to The Horton Manufacturing Company, Bristol, Conn. Fishing rod handle. 2,431,972; Dec. 2.
- Treadwell Construction Company, assignee: *See*—  
Davis, Harry A., and Kroen.
- Treadwell, Jeannette E., San Antonio, Tex. Brassière. 2,420,575; May 13.
- Treanor, Edward D., Pittsfield, Mass., assignor to General Electric Company. Electrical induction apparatus and protective means therefor. 2,416,130; Feb. 18.
- Treble, Henning A.: *See*—  
Ailing, E. Roy, and Treble.
- Trecek, Louis, assignor to The Celon Company, Madison, Wis. Display package. 2,419,745; Apr. 29.
- Treff, Alfred: *See*—  
Pearson, Paul E., and Treff.
- Treiman, Abraham: *See*—  
Gleser, Sol M., and Treiman.
- Treis, Charles: *See*—  
Treis, Jacob J. and C.
- Treis, Jacob J., Whitefish Bay, and C. Treis, Milwaukee, Wis. Apparatus for cutting and packaging sheets of material. 2,433,535; Dec. 30.
- Tremolada, Guglielmo R., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif. Drawworks brake. 2,414,677; Jan. 21.
- Trenner, Nelson R., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Catalytic oxidation of sorbose derivatives. 2,428,438; Oct. 7.
- Trent, Harold E., Media, Pa., assignor to Trent, Inc. Refractory support for electric resistors. 2,424,780; July 29.
- Trent, Harold E., Media, Pa., assignor to Trent, Inc. Electric heater of the fan type. 2,429,733; Oct. 28.
- Trent, Horace M.: *See*—  
Hayes, Harvey C., Trent, and Jones.
- Trent, Inc., assignee: *See*—  
Trent, Harold E.
- Trent, Walter R., North Arlington, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Vitamin recovery. 2,432,181; Dec. 9.
- Trepagnier, Joseph H., Wilmington, Del., and J. P. Vaughan, Woodstown, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of dinitrosobenzenes. 2,419,976; May 6.
- Treseder, Robert C.: *See*—  
Kent, Earle L., and Treseder.
- Treseder, Robert C., Dayton, Ohio. Vibration responsive apparatus. 2,424,864; July 29.
- Tresise, Raleigh E., Cleveland Heights, and P. D. Kendall, Maple Heights, assignors to Paraphone Hearing Aid, Inc., Cleveland, Ohio. Hearing aid apparatus. 2,424,422; July 22.
- Treuting, Robert G., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Translating material and device and making them. 2,419,237; Apr. 22.
- Trevaskis, Henry W., Solihull, Birmingham, assignor to Dunlop Rubber Company Limited, London County, England. Hose coupling. 2,416,657; Feb. 25.
- Trevaskis, Henry, Birmingham, assignor to Dunlop Rubber Company Limited, London, England. Hydraulic brake and like apparatus. 2,421,728; June 3.
- Trevaskis, Henry, Solihull, Birmingham, assignor to Dunlop Rubber Company Limited, London, England. Hose connection. 2,431,522; Nov. 25.
- Trevor, Bertram: *See*—  
Peterson, Harold O., and Trevor.
- Trevor, Bertram A., and J. B. Atwood, Riverhead, N. Y., assignors to Radio Corporation of America. Two-way telephone system. 2,425,495; Aug. 12.
- Trewren, John C. F., Sidcup, assignor to J. Stone & Company, Deptford, England. Hinged light. 2,425,846; Aug. 19.
- Trexler, Richard R.: *See*—  
Moore, James B., and Trexler.
- Prangley, Curtis F., and Trexler.
- Trexler, Richard R., Evanston, Ill. Liquid dispensing apparatus. 2,414,842; Jan. 28.
- Trexler, Richard R., Evanston, Ill. Liquid dispensing apparatus. 2,416,361; Feb. 25.
- Tribbit, Samuel W., Darien, Conn., assignor, by mesne assignments, to U. S. Industrial Chemicals, Inc., New York, N. Y. 2-ethyl-2-butyl propanediol-1,3. 2,413,803; Jan. 7.
- Tribble, Winthrop, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Remote-control means for speed change mechanisms. 2,422,448; June 17.
- Trich, Henry C., Chicago, Ill., assignor to North American Aviation, Inc., Inglewood, Calif. Retractable landing gear. 2,431,093; Nov. 18.
- Trickey, Philip H., North Plainfield, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Ventilation of small electric motors. 2,429,903; Oct. 28.
- Tri-Clover Machine Co., assignee: *See*—  
Ebert, Walter.  
Ryan, Robert.  
Sery, George N.
- Trico Products Corporation, assignee: *See*—  
Hess, Willis C.  
Horton, Ervin C.  
Rappl, Anton.  
Scinta, Anthony C.  
Thomson, Marshall.
- Trier, Carl L., and J. H. Livingston, III, Baltimore, Md., assignors to Cherry-Burrell Corporation, Wilmington, Del. Sterilizer for receptacle washers. 2,424,342; July 22.
- Trimbach, Clem G., Kenmore, N. Y., assignor, by mesne assignments, to Curtiss-Wright Corporation. Shock absorbing gun mount. 2,421,858; June 10.
- Trimbach, Clem G., Kenmore, G. A. Luburg, Snyder, and C. R. Lemonier, Kenmore, assignors to Curtiss Aeroplane and Motor Company, Incorporated, Garden City, N. Y. Mount and spent ammunition retriever for flexibly mounted guns. 2,415,153; Feb. 4.
- Trimble, Charles H., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Article holding fixture. 2,417,144; Mar. 11.
- Trimble, Charles H., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Article assembling fixture. 2,421,973; June 10.
- Trimble, Robert A., El Cerrito, assignor to Shell Development Company, San Francisco, Calif. Catalytic dehydroisomerization of five membered alicyclic ring hydrocarbons having six or more carbon atoms per molecule to aromatic hydrocarbons. 2,414,620; Jan. 21.
- Trimmer, John J., U. S. Navy. Adjustable spanner wrench. 2,414,281; Jan. 14.
- Trinaistich, John, Trinidad, Colo. Material excavating and loading machine. 2,420,848; May 20.
- Trinkel, Benjamin H., Providence, R. I. Sleeping garment trousers. 2,416,857; Mar. 4.
- Triplett Electrical Instrument Co., assignee: *See*—  
Lingel, Frederick J.
- Triplett Electrical Instrument Company, The, assignee: *See*—  
Lingel, Frederick J.
- Triplett, Ray L., assignee: *See*—  
Lingel, Frederick J.  
Remde, Jack.
- Triplett, Ray L., Bluffton, Ohio. Dial mounting for electrical measuring instruments. 2,426,800; Sept. 2.
- Triplett, W. G., assignee, et al.: *See*—  
Nichols, Okey B.
- Triplett, William F., Grand Junction, Colo. Antifriction bearing for railway journal. 2,433,492; Dec. 30.
- Trist, Donald, & Co. Limited, assignee: *See*—  
Corke, Bernard Alfred.
- Trist, Ronald, & Co., Limited, assignee: *See*—  
Chambers, William A.  
Wakley, Thomas L.
- Triumph Dishwashers Limited, assignee: *See*—  
Burt-Wells, Sidney G.
- Trivell, Adrian P. H., and W. F. Smith, assignors to Eastman Kodak Company, Rochester, N. Y. Increasing speed and contrast of photographic emulsions. 2,419,975; May 6.
- Troche, Herman J.: *See*—  
Holan, James H., Jr., and Troche.
- Troche, Herman J., Cleveland Heights, and A. J. Farrar, assignors to The American Coach & Body Company, Cleveland, Ohio. Ladder counterbalancing apparatus. 2,422,507; June 17.
- Troemel, Walter H., assignor to Reeves Pulley Company, Columbus, Ind. Preset control. 2,422,320; June 17.
- Trofimov, Lev A., Willoughby, Ohio. Remotely controlled load moving and positioning system. 2,424,200; July 15.
- Trofimov, Lev A., Willoughby, Ohio. Power apparatus for driving loads at constant speed. 2,429,570; Oct. 21.
- Troel, Arthur E., Berkeley, Calif. Core form for casting concrete tubes. 2,425,137; Aug. 5.
- Trojan Powder Company, assignee: *See*—  
Snelling, Walter O.  
Wyler, Joseph A.
- Troller, Theodor H., and C. P. Jenkins, New Philadelphia, Ohio, assignors to Joy Manufacturing Company. Fan and motor housing. 2,427,032; Sept. 9.
- Trombetta, Louis, New York, N. Y. Welding machine. 2,427,696; Sept. 23.
- Trommer, John F., Inc., assignee: *See*—  
Mayer, Albert A.
- Trosper, Corwin, assignee: *See*—  
Goode, Henry A.
- Troster, Mathew, Jr.: *See*—  
Lewis, Jacob D., Troster, and Sederberg.
- Trostler, William, Cleveland Heights, Ohio. Mop wringer. 2,417,276; Mar. 11.
- Trott, Winfield J., assignor to General Motors Corporation, Detroit, Mich. Permissive welding device. 2,430,260; Nov. 4.
- Trotta, Mike: *See*—  
Kordish, John J., and Trotta.
- Trotter, John C., South Burlington, Vt., assignor to Bell Aircraft Corporation, Wheatfield, N. Y. Helicopter antitorque and steering control. 2,427,982; Sept. 23.
- Trotter, John C., Williamsville, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Ammunition magazine. 2,429,497; Oct. 21.
- Trotter, John C., Williamsville, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Power-operated gun mount. 2,430,747; Nov. 11.



- Trotter, John C., Burlington, Vt., assignor to Bell Aircraft Corporation, Wheatfield, N. Y. Shock absorbing machine gun mount. 2,433,637; Dec. 30.
- Troutman, Edwin C. *See*—  
Erwin, Roy, Troutman, and Lindquist.
- Trowbridge, William Leon, Zanesville, Ohio, assignor to Owens-Corning Fiberglass Corporation. Colored glass fiber product. 2,428,302; Sept. 30.
- Trowell, William W., Greenville, S. C., assignor to Hercules Powder Company, Wilmington, Del. Plastic compositions made with trimethylolnitromethane. 2,426,128; Aug. 19.
- Troxel Manufacturing Company, The, assignee: *See*—  
Kalter, Harold E.
- Troxel, Robert: *See*—  
Coleman, Philip G.
- Truax, George G., Renton, Pa. Safety ground clamp. 2,414,180; Jan. 14.
- Truax, Harry, assignor to Indiana Farm Bureau Co-Operative Association, Inc., Indianapolis, Ind. Oil extractor and separator mechanism. 2,416,421; Feb. 25.
- Trubenizing Process Corporation, assignee: *See*—  
Liebowitz, Benjamin.
- Truby, Harry A., New Kensington, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Glass and manufacture thereof. 2,419,302; Apr. 22.
- Trucktor Corporation, The, assignee: *See*—  
Keller, George, Jr.
- True, Glenn G.: *See*—  
Geiger, David F.
- Geiger, David F., and True.
- Trueger, Edward, Roselle, N. J., assignor to American Lecithin Company, Cleveland, Ohio. Sulphur-containing phosphatide, lubricant, and making. 2,431,652; Nov. 25.
- Trueger, Edward, Roselle, N. J., and B. S. Sprague, Brooklyn, N. Y., assignors to American Lecithin Company, Cleveland, Ohio. Making nitrogenated cephalin. 2,422,321; June 17.
- Trueman, Paul T.: *See*—  
Storck, Frederick W., and Trueman.
- Truit, Joseph A., West Chester, Pa., assignor to American Viscose Corporation, Wilmington, Del. Manufacture of staple fiber yarns and tows. 2,432,355; Dec. 9.
- Trumbo, Elizabeth, Elizaville, Ky. Detachable button fastener. 2,429,174; Oct. 14.
- Trumbull Electric Manufacturing Company, The, assignee: *See*—  
Carlson, Elmer T.
- Ericson, Eric A.
- Trump, Frederick O., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Receiving sheet material for printing machines. 2,426,957; Sept. 2.
- Trundle Engineering Company, assignee: *See*—  
Peck, Samuel A.
- Truscon Steel Company, assignee: *See*—  
Mathey, Joseph W.
- Trustees of St. Louis University, President & Board of, assignee: *See*—  
Yntema, Leonard F.
- Truxell, Clyde W., Jr.: *See*—  
Cupler, John A., and Truxell.
- Tschan, Ernst: *See*—  
De Niederhausern, and Tschan.
- Tschumi, Otto, assignor to Autophon Aktiengesellschaft, Soleure, Switzerland. Voice operated switch for a duplex system. 2,424,069; July 15.
- Tschumi, Otto, assignor to Autophon Aktiengesellschaft, Soleure, Switzerland. Contact device for calling dials. 2,424,423; July 22.
- Tschumi, Otto, assignor to Autophon Aktiengesellschaft, Soleure, Switzerland. Switching arrangement in duplex loud speaking systems. 2,427,983; Sept. 23.
- Tsonros, Constantine E., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y. Lamp construction. 2,428,479; Oct. 7.
- Tubbs, Ernest A., Woodside, Long Island, N. Y. Output cable for signal generators. 2,428,001; Sept. 23.
- Tubbs, Lester G., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control device. 2,414,569; Jan. 21.
- Tubbs, Lester G., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Regulating system. 2,414,570; Jan. 21.
- Tube Turns, assignee: *See*—  
Shelly, Franklin E.
- Tubular Rivet and Stud Company, assignee: *See*—  
Doyle, Thomas J.
- Tucker, Bertram A. C.: *See*—  
Kinman, Thomas H., and Tucker.
- Tucker, Charles O., and O. H. Gotsch, Watsonville, Calif. Consecutive stations communication system. 2,427,078; Sept. 9.
- Tucker, Emmitt M., assignor to Tucker and Sons, Grass Valley, Calif. Steering device for snow tractors. 2,433,173; Dec. 23.
- Tucker, Herbert E., assignor to J. R. Cardwell, Chicago, Ill. Stabilizing mechanism for railway trucks and the like. 2,422,638; June 17.
- Tucker, Herbert E., assignor to J. R. Cardwell, Chicago, Ill. Friction spring unit. 2,428,504; Oct. 7.
- Tucker, James I., Los Angeles, Calif. Quick detachable hook. 2,422,865; June 24.
- Tucker and Sons, assignee: *See*—  
Tucker, Emmitt M.
- Tucker, Warren R.: *See*—  
Muller, Johan A., and Tucker.
- Tucker, Warren R., Dayton, Ohio, assignor to The Hydraulic Development Corp., Inc., Wilmington, Del. Injection molding granular materials. Re. 22,899; July 15.
- Tucker, Warren R., Dayton, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Hydraulic system. 2,431,094; Nov. 18.
- Tucker, Warren R., Dayton, Ohio, assignor to H-P-M-Development Corporation, Wilmington, Del. Apparatus for hot pressing powdered metal. 2,431,095; Nov. 18.
- Tucker, Warren R., Oakwood, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Control mechanism for hydraulic transmissions. 2,420,155; May 6.
- Tucker, Warren R., Dayton, and W. Ernst, Mount Gilead, Ohio, assignors to H-P-M Development Corp., Wilmington, Del. Hydraulic testing apparatus. 2,416,858; Mar. 4.
- Tucker's, Mrs., Foods, Incorporated, assignee: *See*—  
King, Robert R., Pack and Wharton.
- Tuerck, Karl H. W., Banstead, and H. J. Lichtenstein, London, England, assignors to The Distillers Company Limited, Edinburgh, Scotland. Manufacture of acrolein oxime and acrylonitrile. 2,417,024; Mar. 4.
- Tuerff, Arthur, South Orange, and L. C. Lotz, Newark, N. J. Razor blade magazine. 2,431,523; Nov. 25.
- Tulagin, Vsevolod, Phillipsburg, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Photographic developer. 2,414,491; Jan. 21.
- Tull, Robert H., Springfield, and E. S. Wegman, East Longmeadow, Mass., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Temperature and liquid level control for refrigeration apparatus. 2,432,547; Dec. 16.
- Tuller, William G., Watertown, assignor to Raytheon Manufacturing Company, Newton, Mass. High-frequency coupling device. 2,433,074; Dec. 23.
- Tullis, Boyd W., Wichita, Kans., assignor to The Coleman Company, Inc. Burner starting mechanism. 2,431,665; Nov. 25.
- Tullis, Jasper G., assignor to The Cleveland Formgrader Company, Cleveland, Ohio. Conveyor mounting for trucks. 2,425,656; Aug. 12.
- Tully, James K.: *See*—  
Jones, Basil E., and Tully.
- Tumey, Charles M., Indianapolis, and E. E. Bowers, Lebanon, Ind., assignors to Universal Corporation. Pressure-expansion rotary engine. 2,414,779; Jan. 21.
- Tung-Sol Lamp Works, Inc., assignee: *See*—  
Atkins, Carl E.
- Tunick, Harry, Rye, N. Y., assignor to Radio Corporation of America. Short-wave apparatus. 2,425,657; Aug. 12.
- Tunick, Harry, Rye, N. Y., assignor to Radio Corporation of America. Background noise reducing circuit for audio frequency translating circuit. 2,425,968; Aug. 19.
- Tunncliffe, Eustace, London, J. Taylor, and H. D. James, Leigh, assignors to British Insulated Callender's Cables Limited, London, England. Covering of electric wires and the like. 2,426,904; Sept. 2.
- Tunstall, Harold A., Gravesend, Kent, assignor to W. T. Henley's Telegraph Works Company Limited, Dorking, Surrey, England. Buoyant electric cable. 2,428,480; Oct. 7.
- Tupper, Earl S., Farnumville, Mass. Comb and case therefor. 2,420,576; May 13.
- Turansky, Clement J., Kenmore, and J. A. Grom, Tonawanda, N. Y., assignors to Curtiss-Wright Corporation. Safety lock for retractable landing gear. 2,427,885; Sept. 23.
- Turbo Engineering Corporation, assignee: *See*—  
Birmann, Rudolph.
- Turbolite Company, assignee: *See*—  
Volpin, Alexander S.
- Walker, Isaac J., Wham, and Turbeville.
- Turchan, Manuel, Dearborn, and C. Walker, Detroit, Mich. Three-dimensional tracer. 2,433,005; Dec. 23.
- Turco Products, Inc., assignee: *See*—  
Perry, Frank R.
- Stine, Carl A.
- Waterman, Herbert.
- Turkel, Henry, Detroit, Mich. Infusion and biopsy needle. 2,426,535; Aug. 26.
- Turman, Grover C., Key West, Fla. Interlocking shingle. 2,421,766; June 10.
- Turnbull, Frederick M., assignee: *See*—  
Hamilton, William F.
- Turner, Alfred H., Collingswood, N. J., assignor to Radio Corporation of America. Superheterodyne converter. 2,415,977; Feb. 18.
- Turner, Archibald J., assignor to Wilson Athletic Goods Mfg. Co., Inc., Chicago, Ill. Baseball glove. 2,414,004; Jan. 7.
- Turner, Archibald J., assignor to Wilson Sporting Goods Company, Chicago, Ill. Eyeglass protector. 2,418,376; Apr. 1.
- Turner, Arthur F.: *See*—  
Peterson, Stanley V., and Turner.



- Turner, Arthur F., Brighton, and R. B. Horsfall, Jr., Perinton, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Light beam divider. 2,422,376; June 17.
- Turner, Arthur F., Brighton, and O. A. Ullrich, Jr., assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Apparatus for making optical wedges. 2,432,950; Dec. 16.
- Turner, Charles W., and E. P. Reineke, Columbia, assignors to American Dairies Incorporated, Kansas City, Mo., and The Quaker Oats Company, Chicago, Ill. Extracting L-thyroxine from thyroprotein. 2,422,938; June 24.
- Turner, Delber W., Houston, Tex., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Apparatus for introducing high voltages in containers. 2,432,263; Dec. 9.
- Turner, Dora E., Beverly, Mass. Winding appliance. 2,423,533; July 8.
- Turner, Edgar P., Fanwood, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Gyroscopic controller. 2,428,345; Sept. 30.
- Turner, Edwin E., Jr., West Roxbury, assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass. Distance and direction measuring system. 2,418,490; Apr. 8.
- Turner, Edwin E., Jr., West Roxbury, assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass. Electrical oscillator. 2,419,608; Apr. 29.
- Turner, Edwin E., Jr., West Roxbury, assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass. Compressional wave transmitting or receiving device. 2,422,707; June 24.
- Turner, Edwin E., Jr., West Roxbury, assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass. Method and apparatus for sound ranging. 2,428,821; Oct. 14.
- Turner, George F.: *See*—  
Harper, Philip S., and Turner.
- Turner, George L., Battle Creek, assignor to Clark Equipment Company, Buchanan, Mich. Industrial truck for handling material. 2,432,182; Dec. 9.
- Turner, George L., Battle Creek, assignor to Clark Equipment Company, Buchanan, Mich. Boom construction. 2,433,584; Dec. 30.
- Turner, Jacob L., Norwell, Mass., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y. Electrically heated bellows motor. 2,433,493; Dec. 30.
- Turner, James, assignee: *See*—  
Bernal, Maurice V.
- Turner, John L., St. Louis, Mo. Smoking pipe. 2,419,509; Apr. 22.
- Turner, John R.: *See*—  
McLeod, John H., and Turner.
- Turner, John R., assignor to Eastman Kodak Company, Rochester, N. Y. Method and apparatus for assembling optical prisms into an optical system. 2,428,859; Oct. 14.
- Turner, Leon E., Toms Creek, Va. Cable hook. 2,429,433; Oct. 21.
- Turner, Prescott K.: *See*—  
Young, William R., and Turner.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Thread control mechanism for weft replenishing looms. 2,416,803; Mar. 4.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electric weft detector for looms. 2,417,997; Mar. 25.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Double unit electric weft detector for looms. 2,418,678; Apr. 8.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Spent bobbin receiver for weft replenishing looms. 2,420,918; May 20.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector with removable finger. 2,421,587; June 3.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Adjustable receiver for spent bobbins. 2,423,667; July 8.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pneumatic thread holder for looms. 2,427,538; Sept. 16.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Partitioned bobbin receiver for weft replenishing looms. 2,428,251; Sept. 30.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Spent bobbin receiver and support therefor. 2,430,149; Nov. 4.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Bodily movable transfer arm. 2,432,837; Dec. 16.
- Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electric weft detecting system for looms. 2,433,174; Dec. 23.
- Turner, Roscoe, trustee, assignee, et al.: *See*—  
French, Elby E.
- Turner, Thomas W., Brookings, S. Dak. Sleeve splitting device for cable splicing. 2,414,073; Jan. 7.
- Turner, William R., Drexel Hill, assignor to The Atlantic Refining Company, Philadelphia, Pa. Rust-inhibiting lubricant. 2,413,852; Jan. 7.
- Turnes, Angel N., New York, N. Y. Cosmetic applicator. 2,416,029; Feb. 18.
- Turney, Eugene T., Jr., Bayside, N. Y. Sheet metal box. 2,427,823; Sept. 23.
- Turney, Harry L.: *See*—  
Hubbard, George H., and Turney.
- Turpin, Alexander J.: *See*—  
Elze, Walter C., and Turpin.
- Turrettini, Fernand, assignor to Societe Genevoise d'Instruments de Physique, Geneva, Switzerland. Stroboscopic device for determining electrically the positions of objects. 2,416,968; Mar. 4.
- Turrettini, Fernand, assignor to Societe Genevoise D'Instruments De Physiques, Geneva, Switzerland. Thread grinding machine. 2,423,422; July 1.
- Tutein, Joseph F., assignor to Consulting Engineering Co., Crafton, Pa. Apparatus for heating water and other liquids. 2,430,837; Nov. 11.
- Tuthill Pump Company, assignee: *See*—  
Endebak, Peter.
- Tuttle, Malcolm H., New Rochelle, assignor to Max B. Miller & Co., Inc., New York, N. Y. Cracking hydrocarbons in the presence of granular coke. 2,426,848; Sept. 2.
- Tuve, Richard L., Silver Spring, and J. C. White, University Park, Md., and E. L. Luke, Washington, D. C. Continuous water analyzer. 2,430,895; Nov. 18.
- Twamley, William E., Providence, R. I., assignor to Brown and Sharpe Manufacturing Company. Back rest. 2,415,714; Feb. 11.
- Tweit, Olav M., Mountain Lakes, N. J., assignor to Wilputte Coke Oven Corporation, New York, N. Y. Valve mechanism for gas uptake pipes of a coke oven battery. 2,424,865; July 29.
- Twentieth Century-Fox Film Corporation, assignee: *See*—  
Fort, James M.  
Hulburt, George D.  
Witte, Louis J., and Southland.
- Twin Coach Company, assignee: *See*—  
Austin, Dwight E.
- Twin Disc Clutch Company, assignee: *See*—  
Black, James B., and Shurts.
- Twiss, Douglas F.: *See*—  
Teicher, Joseph A., and Twiss.
- Tyler, Leland C., North Hollywood, Calif. Clothesbrush. 2,432,264; Dec. 9.
- Tyer Rubber Company, assignee: *See*—  
Dinmore, Harry C., Jr., and Fraser.
- Tykeson, Martin, Hamden, Conn. Shock absorber. 2,427,427; Sept. 16.
- Tyler Fixture Corporation, assignee: *See*—  
Shreve, Clifford B.
- Tyler, Gerald P.: *See*—  
Woodyard, Livie D. C., Tyler, and Kaefer.
- Tyler, John M., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Engine accessory mount. 2,421,529; June 3.
- Tyler, Paul J., assignee, et al.: *See*—  
Lawler, Frank P.
- Tyler, Ransom, Greenfield, assignor to The Oilgear Company, Milwaukee, Wis. Winder drive. 2,425,496; Aug. 12.
- Tyne, Gertrude H., assignor, by mesne assignments, to Allied Control Company, Inc., New York, N. Y. Bobbin-wound coil. 2,421,444; June 3.
- Tyrner, Joseph M., New York, N. Y. Electric circuit controller. Re. 22,907; Aug. 12.
- Tyrner, Joseph M., New York, N. Y., assignor to Air Reduction Company, Incorporated. Apparatus for fillet arc welding. 2,421,095; May 27.
- Tyrner, Joseph M., New York, N. Y., assignor to Air Reduction Company, Incorporated. Arc welding apparatus. 2,422,811; June 24.
- Tyrner, Joseph M., Englewood, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Electric arc welding. 2,433,678; Dec. 30.
- Tyron, Philip F., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Plasticized butadiene polymer composition containing phthalimidoalkyl alkanoates. 2,425,288; Aug. 5.
- Tyrell, Warren A., Fairhaven, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching device in wave guide transmission system. 2,423,130; July 1.
- Tyson, Archie M., Dallas, Tex. Resonator for musical instruments. 2,417,277; Mar. 11.
- Tyson Bearing Corporation, assignee: *See*—  
Diamond, Blaise L.
- Tyson, Charles W.: *See*—  
Graham, John M., Gohr, and Tyson.  
Murphree, Eger V., Tyson, Campbell, and Martin.
- Tyson, Charles W., Summit, N. J., assignor to Standard Oil Development Company. Cracking of hydrocarbon oils. 2,420,632; May 13.
- Tyson, Charles W., Summit, N. J., assignor to Standard Oil Development Company. Contacting fluids with solid particles. 2,421,664; June 3.
- Tyson, Charles W., Summit, N. J., assignor to Standard Oil Development Company. Stripping spent catalyst. 2,428,691; Oct. 7.
- Tyson, Charles W., Union, N. J., assignor to Standard Oil Development Company. Conversion of hydrocarbon oils. 2,427,112; Sept. 9.



- Tyson, Charles W., Summit, D. L. Campbell, Short Hills, H. Z. Martin, Elizabeth, and E. V. Murphree, Summit, N. J., assignors to Standard Oil Development Company. Treating hydrocarbons. 2,428,690; Oct. 7.
- Tyszkiewicz, Stella, administratrix: *See*—Tyszkiewicz, Carl.
- Tyszkiewicz, Carl, deceased, S. Tyszkiewicz, administratrix, assignor to S. Tyszkiewicz, Cranston, R. I. Archer device. 2,417,791; Mar. 18.
- Udale, Stanley M., Detroit, Mich., assignor to G. M. and E. Holley. Fuel control device. 2,429,781; Oct. 28.
- Udale, Stanley M., Detroit, Mich., assignor to G. M. and E. Holley. Hot-spot manifold. 2,430,693; Nov. 11.
- Udden, Svante M., Corpus Christi, Tex. Rotary ice chipper. 2,416,422; Feb. 25.
- Udy, Marvin J., Niagara Falls, N. Y. Producing chromate. 2,416,550; Feb. 25.
- Udy, Marvin J., Niagara Falls, N. Y. Production of chromium compounds. 2,416,551; Feb. 25.
- Udy, Marvin J., Niagara Falls, N. Y. Treatment of matte to recover metallic salts. 2,424,866; July 29.
- Udy, Marvin J., Niagara Falls, N. Y. Exothermic mixture for use on surfaces of molten metal in molds. 2,426,849; Sept. 2.
- Udy, Marvin J., Niagara Falls, N. Y. Production of chromium compounds. 2,430,261; Nov. 4.
- Udylite Corporation, The, assignee: *See*—McCabe, Russell.
- Uebelhoefer, Walter, Snyder, N. Y. Material moving apparatus. 2,428,131; Sept. 30.
- Uher, Paul, assignee: *See*—Comis, James L., and Nestos.
- Uhl, Edward G., Elizabeth, N. J., and L. A. Skinner, Washington, D. C., assignors to The United States of America as represented by the Secretary of War. Rocket stabilizing fins. 2,430,896; Nov. 18.
- Uhlenkott, John J., Downieville, Calif. Combination hoist and jack. 2,426,717; Sept. 2.
- Uhler, Wilmer P., Tottenville, N. Y., assignor to The S. S. White Dental Manufacturing Company. Flexible shaft fabricating machine. 2,416,076; Feb. 18.
- Uhlig, Edwin C., Greenwood, R. I., assignor to United States Rubber Company, New York, N. Y. Making battery separators. 2,422,148; June 10.
- Ulrich, Ernest H., Dubuque, Iowa. Bottle carrier. 2,432,700; Dec. 16.
- Ulett, George A., Jr., and F. B. Claussen, Portland, Oreg., assignors to the United States of America, as represented by the Secretary of War. Electrode holder for use in electroencephalography. 2,426,958; Sept. 2.
- Ullberg, Ruth, Chicago, Ill. Ironing board accessory. 2,414,988; Jan. 28.
- Ullman, Paul, assignee: *See*—Zabel, Frederick R.
- Ulrich, Edward H., London, W. C. 2, assignor to Standard Telephones and Cables Limited, London, England. Overcoming the effects of earth reflections in directional antenna systems. 2,419,609; Apr. 29.
- Ulrich, Osmar A., Jr.: *See*—Turner, Arthur F., and Ulrich.
- Ulm, Reign C., East Chicago, Ind., assignor to Graver Tank & Mfg. Co., Inc., Catasauqua, Pa. Pressure and vacuum venting apparatus. 2,413,804; Jan. 7.
- Ulm, Reign C., assignor to Graver Tank & Mfg. Co., Inc., East Chicago, Ind. Flexible drain for floating roofs. 2,422,322; June 17.
- Ulm, Reign C., assignor to Graver Tank & Mfg. Co., Inc., East Chicago, Ind. Sealing means for floating roofs. 2,426,755; Sept. 2.
- Ulrich, Charles J., and A. F. Weissenberger, Los Angeles, Calif., assignors to North American Aviation, Inc. Quickly detachable fastener. 2,421,172; May 27.
- Ulrich, Eugene L., Pendleton, Oreg. Bridle bit. 2,421,173; May 27.
- Ulrich, Frederick, Hoskins, Nebr. Seeding machine discharger. 2,416,804; Mar. 4.
- Ulrich, Frederick, Jersey City, assignor to Conmar Products Corporation, Newark, N. J. Molding apparatus for slide fastener sliders. 2,415,395; Feb. 4.
- Ulrich, Frederick, Jersey City, and O. Scheuermann, Westfield, assignors to Conmar Products Corporation, Newark, N. J. Double-pull automatic lock slider. 2,423,210; July 1.
- Ulrich, Raymond M., Roanoke, Ill. Bottle carrier. 2,426,756; Sept. 2.
- Ulrich, Theodore, Milwaukee, assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Seat stabilizer. 2,420,728; May 20.
- Ulrich, Theodore, Milwaukee, Wis., assignor to The Budd Company, Philadelphia, Pa. Sill structure, especially for automobiles. 2,427,635; Sept. 16.
- Ulrich, Theodore, Milwaukee, Wis., and A. R. Lindsay, Detroit, Mich., assignors to The Budd Company. Vehicle body underframe or chassis. 2,431,524; Nov. 25.
- Ultrametl Mfg. Co., assignee: *See*—Fleischer, Paul.
- Ultrasonic Corporation, assignee: *See*—Horsley, Caperton B.
- Van Allen, William A.: *See*—Ulrich, George, assignee: *See*—Fischer, Howard L.
- Umbach, Walter R.: *See*—McGowan, Michael E., and Umbach.
- Umbdenstock, George B., Prairie View, Ill. Steel barrel plug wrench. 2,421,665; June 3.
- Umhoefer, Robert R., Pittsfield, Mass. Preparation of 2,5-dichlorodioxane. 2,414,989; Jan. 28.
- Uncas Manufacturing Company, assignee: *See*—Barbieri, Nicholas.
- Underhill, Joseph L., Indianapolis, Ind., assignor to Radio Corporation of America. Means for preventing arcuate image motion in an optical sound recording system. 2,429,111; Oct. 14.
- Underkoffler, Leland A.: *See*—Fulmer, Ellis I., Underkoffler, and Hickey.
- Under Water Welders & Repairers Limited, assignee: *See*—Root, Robert H. F.
- Underwood, Arthur F., Grosse Pointe, assignor to General Motors Corporation, Detroit, Mich. Oil cleaner. 2,426,327; Aug. 26.
- Underwood Corporation, assignee: *See*—Anderson, Walter A.
- Conard, Frederick U.
- Pitman, Richard W.
- Sundstrand, Oscar J.
- Toggenburger, John.
- Underwood, Garfield J.: *See*—Shuttleworth, Howard L., Underwood, and Jones.
- Underwood, Garfield J., Broadalbin, and F. E. Farrell, assignors to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Preparation of chenille. 2,429,434; Oct. 21.
- Underwood, James E., Oakmont, assignor to Aluminum Company of America, Pittsburgh, Pa. Orienting work feeder. 2,421,916; June 10.
- Underwood, James W.: *See*—D'Alelio, Gaetano F., and Underwood.
- Underwood, James W., Pittsfield, Mass., assignor to General Electric Company. Preparation of substituted phenols by reaction of phenol with styrene. 2,432,356; Dec. 9.
- Underwood, William F.: *See*—Charch, William H., and Underwood.
- Uncy, Gustav E., Detroit, assignor, by mesne assignments, to Weltronic Company, Southfield Township, Oakland County, Mich. Timing control system. 2,415,396; Feb. 4.
- Uncy, Gustav E., Detroit, assignor, by mesne assignments, to Weltronic Company, Oakland County, Mich. Timing control system. 2,420,919; May 20.
- Unertl, John, Jr.: *See*—Unertl, John, and John, Jr.
- Unertl, John, and J. Unertl, Jr., Pittsburgh, Pa. Adjustable reticule for telescopes. 2,427,516; Sept. 16.
- Ungemah, Agnes H., White Plains, N. Y. Ear protector. 2,428,897; Oct. 14.
- Unger, Abraham, East Orange, assignor to Duro Persian Manufacturing Co., Inc., East Newark, N. J. Textile. 2,430,748; Nov. 11.
- Unger, Sidney, New York, assignor to E. A. Laboratories, Inc., Brooklyn, N. Y. Electric switch. 2,419,180; Apr. 15.
- Ungerland, Henry A., Oceanside, N. Y. Windshield wiper. 2,422,761; June 24.
- Ungnade, Herbert E.: *See*—Smith, Lee I., and Ungnade.
- Union Asbestos & Rubber Co., assignee: *See*—Moorman, Charles L.
- Moorman, Charles L., and Burnett.
- Union Asbestos & Rubber Company, assignee: *See*—Moorman, Charles L.
- O'Connor, Arthur F.
- Union Bag & Paper Corporation, assignee: *See*—Daniels, Henry S.
- Union Carbide and Carbon Corporation, assignee: *See*—Anthes, Clifford C.
- Deck, Elbe W.
- Herbst, Harry T.
- Oldham, Samuel R.
- Union Machine Company, assignee: *See*—Orton, Samuel T., Jr.
- Union Manufacturing Company, The, assignee: *See*—Nelles, Russell E.
- Union Oil Company of California, assignee: *See*—Albaugh, Frederick W.
- Berg, Clyde H. O.
- Cook, James F.
- Dillon, Lyle.
- Doumani, Thomas F., and Coe.
- Doumani, Thomas F., Deery, and McKinnis.
- Farkas, Adalbert, and Stribley.
- Kollen, Myron H., and Flaxman.
- Jones, Philip H.
- Lake, George R.
- Lee, Milton W.
- McKinnis, Art C.
- McLennan, Lester W.
- Mertes, Richard W.
- Parker, Robert L., Jr., and Huffman.
- Rittenhouse, John D.
- Wilson, Chester E., and Dodge.
- Union Screen Plate Company, assignee: *See*—Orton, Samuel T., Jr.
- Union Spring and Manufacturing Co., assignee: *See*—Stewart, Howard J.
- Union Steel Products Company, assignee: *See*—Bitney, Dewey H.



- Union Switch & Signal Company, The, assignee: *See—*  
 Baughman, George W.  
 Bone, Herbert L.  
 Breisch, Edgar W.  
 Coley, James P.  
 Crooks, Ralph K.  
 Francis, Joseph M., and Armistead.  
 Gilson, Robert M.  
 Grosjean, Wilbur V.  
 Hays, Thomas W.  
 Hufnagel, Andrew.  
 Jerome, Arthur L.  
 Kemmerer, Ralph R., and Jerome.  
 Lewis, Lloyd V.  
 McCann, Ronald A.  
 McWhirter, William C.  
 Pascoe, Frank T., and Jerome.  
 Place, Willard P.  
 Shields, Charles B.  
 Snively, Clarence S.  
 Sorensen, Andrew J.  
 Staples, Crawford E.  
 Thompson, Leslie E., and Jenkins.  
 Van Horn, James J.  
 Walker, Alec H. B.  
 Young, Henry S.
- Union Totalisator Company Limited, The, assignee: *See—*  
 Handley, John.
- Unique Fibers, Inc., assignee: *See—*  
 Oppenheim, Austin N.
- Unit Rig & Equipment Company, assignee: *See—*  
 Guler, William.
- United Advertising Corporation, assignee: *See—*  
 Hathaway, William R.
- United Aircraft Corporation, assignee: *See—*  
 Albright, Franklin C.  
 Allington, George H.  
 Burnett, Henry J.  
 Clark, John R.  
 Cole, Gilmoure N., and Hopper.  
 Cooper, Kenneth C.  
 Cronstedt, Val.  
 Cronstedt, Val, and Ledwith.  
 Czarnecki, Sigmund A.  
 Dickerman, Fred N.  
 Gluhareff, Michael E.  
 Hasbrouck, Augustus.  
 Hasbrouck, Augustus, King, Porter, and Williams.  
 Hasbrouck, John S.  
 Hobbs, Leonard S.  
 Hobbs, Leonard S., and Willgoos.  
 Hunt, William E.  
 Kalitinsky, Andrew.  
 Kearns, Charles M., Jr.  
 Kelley, Frank H., and Stanley.  
 Lampton, Glen T., Vashinder, and Dissel.  
 Ledwith, Walter A.  
 Lee, John G.  
 Lightfoot, Ralph B.  
 Martin, Erle.  
 Martin, Erle, Lampton, and Vincent.  
 McFarland, Donald L.  
 Meltzer, Donald E.  
 Molloy, Richard C.  
 Morris, Charles L.  
 Newcomb, Philip P.  
 Richey, David M.  
 Richey, David M., and Traynor.  
 Roberts, Reon B.  
 Sikorsky, Igor I.  
 Soderberg, Carl R.  
 Sprinkle, Charles R.  
 Tyler, John M.  
 Von Mertens, Ernest K.  
 Wald, Quentin R.  
 Willgoos, Andrew V. D.  
 Zimmerman, Charles H.
- United Aircraft Corporation, assignee, et al.: *See—*  
 Austin, Chester R., and Rogers.  
 Martin, Erle.
- United Aircraft Products, Inc., assignee: *See—*  
 Booth, Harry T.  
 Clark, Warren H.  
 Cruzan, Harold, and Warrick.  
 Dykeman, Reuben G., Shaw, and Hoffman.  
 Hobbs, Leonard S.  
 Hoffman, Allan C.  
 Sullivan, James E.  
 Warrick, Edward C., and Cruzan.
- United Airlines, Inc., assignee: *See—*  
 Montgomery, Bruce E.
- United Carbon Company, Inc., (Maryland) assignee: *See—*  
 Skoog, Robert W.
- United-Carr Fastener Corporation, assignee: *See—*  
 Churchill, Wilmer H.  
 Johnson, Frank E.  
 Murphy, Howard J.  
 Parkin, Leslie.
- United Chromium, Incorporated, assignee: *See—*  
 Webersinn, Theodore H., and Hyner.
- United Dairies Limited, assignee: *See—*  
 Stoaite, Norman P.  
 Thomas, Mark H.
- United Drill & Tool Corporation, assignee: *See—*  
 Kronwall, Konstantin.
- United Electronics Company, assignee: *See—*  
 Steiger, Benjamin F.
- United Elevator Service, Inc., assignee: *See—*  
 Di Giovanni, Joseph.
- United Engineering and Foundry Company, assignee.  
*See—*  
 Stone, Morris Denor.
- United Gas Improvement Company, The, assignee: *See—*  
 Chaney, Newcomb K.  
 Chaney, Newcomb K., and Hall.  
 Ferguson, Bassett, Jr.  
 Hall, Edwin L., and Batchelder.  
 Jordan, Claude W.  
 Smoker, Edward H.  
 Soday, Frank J.
- United Gas Pipe Line Company, assignee: *See—*  
 Fulton, William F.
- United Geophysical Company, Inc., assignee: *See—*  
 Hoover, Herbert, Jr.
- United Last Company, assignee: *See—*  
 Levaggi, Victor J., Jr.
- United Mattress Machinery Co. Inc., assignee: *See—*  
 Mathewson, Wilfred B.  
 Williams, Kenneth P.
- United Merchants & Manufacturers, Inc., assignee: *See—*  
 Monsaert, Richard P., Sr.  
 Weiss, Eric E.
- United-Rexall Drug Company, assignee: *See—*  
 Salvo, Charles J.
- United Shoe Machinery Corporation, assignee: *See—*  
 Ashley, John W.  
 Ashley, Merwin F.  
 Ashworth, Fred.  
 Baker, Corwin W.  
 Baker, Willard L., Campbell, and Good.  
 Bazzoni, Lewis J.  
 Bell, Charles C., and Elliott.  
 Blanchard, Benjamin B.  
 Blowers, Arthur.  
 Brophy, John J.  
 Burby, Philip E.  
 Burke, George F. C.  
 Campbell, Rouel R.  
 Cantley, Joseph C.  
 Castaldi, Gaetano.  
 Chandler, James D.  
 Christensen, Norman V.  
 Crepeau, Ernest A.  
 Cross, Garrett P. S.  
 Davis, Emery R.  
 Dixon, Paul H., and Ioannilli.  
 Edgar, David.  
 Eek, Albin C.  
 Fernald, Mark E.  
 Fite, John W., and French.  
 Fitzgerald, Charles F.  
 Fossa, Joseph.  
 Fredericksen, James P.  
 Froustey, Emile.  
 Gookin, Sylvester L.  
 Greene, Chester W.  
 Haas, Otto R.  
 Hardie, John C.  
 Harkeem, James A.  
 Hart, George T.  
 Hart, George T., Jr.  
 Hickok, Leon A.  
 Holmgren, Eric A.  
 Hood, Charles E.  
 Johnson, Charles E.  
 Jorgensen, Bernhardt.  
 Knott, Clyde L.  
 Knowlton, Cutler D., and Edgar.  
 Knowlton, Norwood H.  
 Lancaster, John T.  
 Landroche, Henry A.  
 Lawson, Robert H.  
 Le Vesconte, Harold J., and Schweda.  
 Linderroth, Lambert S., Jr.  
 Maeser, Mieth.  
 Melanson, Charles G.  
 Meyer, Vernon H., and Cantley.  
 Miller, Homer E.  
 Miner, George A.  
 Murphy, Everett E.  
 Newhall, Carl A.  
 Quinn, Edward.  
 Quinn, Edward, and Muzzey.  
 Quist, Oscar.  
 Ray, Eugene J.  
 Robinson, Charles A.  
 Robinson, Charles A., and Imhof.  
 Roske, Milton H.  
 Rubel, Charles F.  
 Sauer, George.  
 Seely, Thomas H., and Stratton.  
 Smith, Clarence C.  
 Standish, John F.  
 Stratton, Frank E.  
 Stritter, Karl A.  
 Strout, Basil A.  
 Waldman, Nathan.  
 Walker, Myrl M.  
 Wedger, Walter H.  
 Willhauck, Augustus D.



- United Specialties Company, assignee: *See*—  
Watson, Sydney C.
- U. S. Asbestos Cement Pipe Company, assignee: *See*—  
Ferla, John.
- U. S. Automatic Corporation, assignee: *See*—  
Nord, Eric T.
- U S Bobbin & Shuttle Co., assignee: *See*—  
Gosselin, Wilfrid J.
- United States Cold Storage Corporation, assignee: *See*—  
Allman, George D.
- United States Envelope Company, assignee: *See*—  
Lamb, Charles M., Jr., Wyman, and Heywood.
- United States Gypsum Company, assignee: *See*—  
Camp, Thomas P.  
Linzell, Harry K.  
Linzell, Harry K., Simpson, and Dailey.  
Robertson, John A., Camp, and Kolmodin.  
Ruthman, Kenneth S., and Parsons.  
Schmidt, Marvin T., and Wise.  
Warner, Chester E.  
Whittier, William A.  
Willey, Grant S.
- United States Hoffman Machinery Corporation, assignee: *See*—  
Lendle, Carl R.  
Mahler, William.
- U. S. Industrial Chemicals, Inc., assignee: *See*—  
Forman, Sylvan E.  
Greenberg, Harry.  
Kilgore, Lowell B.  
Tribit, Samuel W.
- United States of America, assignee: *See*—  
Blackinton, George W., and Calhoun.  
Eksergian, Carolus L.  
Farr, William W.  
Lovely, John E.  
Pope, Winslow B.
- United States Playing Card Company, The, assignee: *See*—  
Cahn, Adolph.
- United States Quarry Tile Company, assignee: *See*—  
Feichter, Harold R.
- U. S. Ring Traveler Company, assignee: *See*—  
Smith, Herbert J.
- United States Rubber Company, assignee: *See*—  
Armstrong, Robert T.  
Bradley, Wayne D.  
Brass, Philip D.  
Brown, Charles F.  
Buckwalter, Howard M.  
Coleman, Ralph A.  
Daly, Lawrence E.  
Devorss, Joseph W., Jr.  
Drake, Charles E.  
Ebers, Earle S.  
Eger, Ernst.  
Fletcher, Harry H.  
Foster, Boutwell H., and Sunbury.  
Griffin, John B.  
Hawley, Thomas G., Jr.  
Hinman, Dorr J.  
Hoover, Walter R.  
Howland, Louis H., and Hunter.  
Hurt, Victor H.  
Kirby, Walter G., and Steinle.  
Kuhn, Herbert M.  
Ladd, Elbert C.  
Ladd, Elbert C., and Harvey.  
Lewis, Arthur P., and Manley.  
Marick, Louis.  
Martin, Frank S.  
Mooney, Melvin.  
Moore, Ralph G. D., and Sanford.  
Paul, Philip T., and Hunter.  
Peaker, Charles R.  
Rhodes, Thomas J.  
Rumbold, John S.  
Skaptason, Joseph B.  
Sterrett, Robert R.  
Sterrett, Robert R., and Holbrook.  
Tawney, Pliny O.  
Ter Horst, William P.  
Uhlig, Edwin C.  
Wood, Thomas F.  
Wilhelm, Kurt E.  
Young, Howard A.
- U. S. Rubber Reclaiming Company, Inc., assignee: *See*—  
Sverdrup, Edward F., and Elgin.
- U. S. Shellac Importers Association, Inc., assignee: *See*—  
Bassford, Henry H., Jr.
- U. S. Slicing Machine Company, assignee: *See*—  
Brustowsky, Morris.  
Folk, Joseph.
- United States Steel Corporation of Delaware, assignee: *See*—  
Hogberg, Carl G.
- U. S. Thermo Control Co., assignee: *See*—  
Jones, Frederick M.
- United States Vanadium Corporation, assignee: *See*—  
Dale, Clark H.
- U. S. Vitamin Corporation, assignee: *See*—  
Freedman, Louis, and Green.
- Universal Atlas Cement Company, assignee: *See*—  
Kocher, Daniel W.  
Ludwig, Norman C.
- Universal Corporation, assignee: *See*—  
Tumey, Charles M., and Bowers.
- Universal-Cyclops Steel Corporation, assignee: *See*—  
Evans, Charles T., Jr.
- Universal Lubricating Systems Inc., assignee: *See*—  
McElhose, Robert T., and Farrell.
- Universal Match Corporation, assignee: *See*—  
Mayer, Richard.
- Universal Milking Machine Company, The, assignee: *See*—  
Bender, Lloyd F., and Schmitt.
- Universal Moulded Products, assignee: *See*—  
Nebessar, Robert J.
- Universal Oil Products Company, assignee: *See*—  
Ahlberg, Jacob E., and Thomas.  
Alther, Joseph G.  
Angell, Charles H.  
Benedict, Wayne L., and Mattox.  
Bloch, Herman S.  
Bogen, John S., and Hulsberg.  
Chenlcek, Joseph A.  
Danforth, Joseph D.  
Day, Roland B.  
Egloff, Gustav.  
Evans, William G.  
Flock, Bernard J., and Gerhold.  
Friedman, Bernard S.  
Gerhold, Clarence G.  
Haensel, Vladimir.  
Haensel, Vladimir, and Ipatieff.  
Hulsberg, Herbert A.  
Ipatieff, Vladimir N., and Linn.  
Ipatieff, Vladimir N., and Pines.  
Ipatieff, Vladimir N., and Schmerling.  
Johnstone, Warren W.  
Kassel, Louis S.  
Leffer, Frederick W.  
Linn, Carl B.  
Linn, Carl B., and Ipatieff.  
Mattox, William J.  
Mavity, Julian M.  
McAfee, Jerry.  
Murray, Maurice J.  
Nelson, Edwin F.  
Pines, Herman.  
Pines, Herman, and Ipatieff.  
Pines, Herman, Ipatieff, and Olberg.  
Pines, Herman, and Wackher.  
Schmerling, Louis.  
Schmerling, Louis, and Ipatieff.  
Shanley, William B.  
Shoresman, Allen M.  
Thomas, Charles L.  
Thomas, Charles L., and Bloch.  
Thomas, Charles L., and Pinkston.  
Walter, John F., and McGrew.  
Watson, Charles C.  
Williams, Thomas J.  
Zimmerman, Gordon B.
- Universal Paper Products Company, assignee: *See*—  
Amberg, Walter E.
- Universal Products Company, Inc., assignee: *See*—  
Dunn, George E.
- Universal Railway Devices Company assignee: *See*—  
Camp, Percy B.
- Universal Winding Company, assignee: *See*—  
Swanson, Ernest R.
- Universal Wire Spring Company, The, assignee: *See*—  
Neely, William H.
- University of Illinois, Board of Trustees of the, The, assignee: *See*—  
Fellows, Julian F.
- University of Michigan, Regents of the, assignee: *See*—  
Blicke, Frederick F.
- University of Tennessee Research Corporation, The, assignee: *See*—  
Melaven, Arthur D., and Bacon.
- Unklens, Edward H., Weehawken, and B. W. Roth, Riverdale, N. J., and C. S. Whitney, Jr., Brooklyn, assignors to Trans-Lux Ad-News Corporation, New York, N. Y. Sign control and system. 2,422,149; June 10.
- Unruh, Cornelius C.: *See*—  
Kenyon, William O., and Unruh.  
Minsk, Louis M., and Unruh.
- Unruh, Cornelius C., and W. O. Kenyon, assignors to Eastman Kodak Company, Rochester, N. Y. Resinous polymers of 1-acyloxy-1,3-butadienes. 2,432,460; Dec. 9.
- Upham, Harry E., Bridgeport, Conn., assignor to Remington Rand Inc., Buffalo, N. Y. Electromagnetic impulse motor. 2,415,715; Feb. 11.
- Upham, John D.: *See*—  
Hudson, Thomas B., Wolk, and Upham.
- Upham, John D., Bartlesville, Okla., assignor to Phillips Petroleum Company. Catalytic hydrocarbon conversion. 2,418,146; Apr. 1.
- Uphues, Frank F., assignor to Crane Co., Chicago, Ill. Bath tub construction. 2,419,801; Apr. 29.
- Upjohn Company, The, assignee: *See*—  
Hunter, James H., and Nathan.
- Upson, Charles A., assignor to The Upson Company, Lockport, N. Y. Apparatus and making resinous artificial board. 2,416,721; Mar. 4.
- Upson Company, The, assignee: *See*—  
Upson, Charles A.



- Upton, Maxwell M., Englewood, and E. A. Smith, Chatham, N. J., assignors to Raymond Concrete Pile Company, New York, N. Y. Method of and apparatus for making concrete piles. 2,421,666; June 3.
- Upton, Albert P.: *See*—  
Gille, Willis H., Field, and Upton.
- Upton, Albert P., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus. 2,423,534; July 8.
- Upton, Frederick P., New Rochelle, assignor to Geneto Corporation, Mount Vernon, N. Y. Magneto construction. 2,422,150; June 10.
- Upton, Frederick P., New Rochelle, assignor to Geneto Corporation, Mount Vernon, N. Y. Single and multi-spark magneto. 2,422,151; June 10.
- Upton, Ralph M., Detroit, Mich. Abrading machine for chamfering gears. 2,430,375; Nov. 4.
- Urban, Carrol E., assignee: *See*—  
Urban, Thomas W.
- Urban, Thomas W., assignor of forty-five per cent to C. E. Urban, Detroit, Mich. Fish lure. 2,425,658; Aug. 12.
- Urbanski, Thaddens, London, England. Combustible synthetic resins. 2,419,045; Apr. 15.
- Urbschat, Ewald: *See*—  
Bonrath, Wilhelm, and Urbschat.
- Uren, Harold, Chigwell, and R. T. A. Dallisson, Ilford, England. Electrical welding machine. 2,414,780; Jan. 21.
- Urist, Harold, and G. J. Martin, assignors to The National Drug Company, Philadelphia, Pa. Ethyl ester of acetyl mandelyl-beta-alanine and preparing same. 2,428,535; Oct. 7.
- Urmetz, Walter W., Parma, assignor to The Ferro Engineering Company, Cleveland, Ohio. Refractory lining. 2,433,175; Dec. 23.
- Urquhart, Henry, Buffalo, N. Y., assignor, by mesne assignments, to American Optical Company, Southbridge, Mass. Removing moisture from optical instruments. 2,430,090; Nov. 4.
- Urquhart, Radcliffe M., Montgomeryville, Pa. Apparatus for making cellular masses. 2,418,858; Apr. 15.
- Urrutia, Miguel A., Habana, Cuba. Adjustable pipe support. 2,419,860; Apr. 29.
- Urschel, Bertis H., and L. H. Janzer, assignors to The Urschel Engineering Company, Bowling Green, Ohio. Fluid pressure actuating device. 2,414,492; Jan. 21.
- Urschel Engineering Company, The, assignee: *See*—  
Urschel, Bertis H., and Janzer.
- Urschel, Gerald W.: *See*—  
Urschel, William E., J. R., and G. W.
- Urschel, Joe R.: *See*—  
Urschel, William E., J. R., and G. W.
- Urschel, William E., J. R. and G. W., Valparaiso, Ind. Coring device for fruits and vegetables. 2,414,493; Jan. 21.
- Usenza, Ralph, Brooklyn, N. Y. Paper holder. 2,429,571; Oct. 21.
- Usselman, George L., Port Jefferson, N. Y., assignor to Radio Corporation of America. Frequency modulated transmitter. 2,422,449; June 17.
- Usselman, George L., Port Jefferson, N. Y., assignor to Radio Corporation of America. Stabilized harmonic oscillator. 2,425,165; Aug. 5.
- Utica Drop Forge Tool Corporation, assignee: *See*—  
Darmara, Fahih N.
- Utica Willowvale Bleaching Company, assignee: *See*—  
Swain, Earl H.
- Utility Trailer Manufacturing Company, assignee: *See*—  
Bennett, Walter.
- Utsh, Albert, Normandy, assignor to McDonnell Aircraft Corporation, St. Louis, Mo. Airplane wing spar joint. 2,424,521; July 22.
- Utter, Gustaf H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Shuttle box for looms. 2,417,668; Mar. 18.
- Utterback, Ernest: *See*—  
Bergstrom, Eric V., and Utterback.
- Utterback, Ernest, Upper Darby, Pa., assignor to Socony-Vacuum Oil Company, Incorporated. Method and apparatus for hydrocarbon conversion. 2,418,679; Aug. 8.
- Utterback, Ernest, Upper Darby, Pa., assignor to Socony-Vacuum Oil Company, Incorporated. Method and apparatus for conducting gaseous reactions in the presence of solid particles. 2,425,969; Aug. 19.
- Utz, Chester C.: *See*—  
Slack, Frederic W., and Utz.
- Utz, Wade H.: *See*—  
Smith, Edward P., and Utz.
- Utzler, Elmer W., Pittsburgh, Pa. Making gratings having interlocked bars. 2,420,112; May 6.
- Uxbridge Worsted Co., Inc., assignee: *See*—  
Clarke, Farrell V.  
Jacques, Raynaldo P.
- Vaala, Gordon T., and C. E. Frank, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Polyisocyanate modified polyesteramides. 2,422,271; June 17.
- Vaca, Humberto, Detroit, Mich. Eyeshield for headgear. 2,425,847; Aug. 19.
- Vacher, Raoul A.: *See*—  
Zeeh, Henry A., and Vacher.
- Vachon, Hubert J., Georgetown, assignor to Boston Machine Works Company, Lynn, Mass. Machine for folding and applying tape. 2,427,240; Sept. 9.
- Vaessen, John W., West De Pere, Wis. Scouring pad holder. 2,428,536; Oct. 7.
- Vagtborg, Harold A., M. Camras, Chicago, and R. E. Zenner, Brookfield, assignors to Armour Research Foundation, Chicago, Ill. Magnetic recording device. 2,429,703; Oct. 28.
- Vahlteich, Hans W., Edgewater, N. J., assignor to The Best Foods, Inc., New York, N. Y. Insectproof container laminate. 2,427,647; Sept. 16.
- Vail Manufacturing Company, assignee: *See*—  
Barclay, Robert E.
- Valcourt, Louis E., East Providence, assignor to Kesterman Bros. Mfg. Co., Providence, R. I. Connector for wrist-watch bracelets and other linkages. 2,424,127; July 15.
- Valcourt, Louis E., East Providence, assignor to Kesterman Bros. Mfg. Co., Providence, R. I. Connector for wrist-watch bracelets and other linkages. 2,424,128; July 15.
- Vale, Baldwin: *See*—  
Jensen, Joseph M., and Vale.
- Valentine, Carroll E., Forest Hills, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Regulating system. 2,428,595; Oct. 7.
- Valentino, Michael L.: *See*—  
Kylin, Oskar and H. O., and Valentino.
- Valet Corporation, The, assignee: *See*—  
Lapeyre, Martial O. and F. S.
- Valish, Paul, Waterbury, Conn. Adjustable V-block. 2,416,782; Mar. 4.
- Valko, Emeric I., St. Johns, Quebec, Canada, assignor to The Richards Chemical Works, Incorporated, Jersey City, N. J. Conversion of alkylolamides into oxazolines. 2,416,552; Feb. 25.
- Vallandigham, Vance V., assignor to Coe Laboratories, Inc., Chicago, Ill. Impression mixtures and ingredient therefor. 2,431,211; Nov. 18.
- Vallee, Jean P. S.: *See*—  
Collonges, Roger S. A., and Vallee.
- Vallely, John L., Los Angeles, Calif. Animal trap. 2,422,602; June 17.
- Vallières, Lucien, Sherbrooke, Quebec, Canada. Collapsible valise. 2,416,783; Mar. 4.
- Valrose, Anthony J.: *See*—  
Stoeck, Joseph F., and Valrose.
- Valvair Corporation, assignee: *See*—  
Collins, John E., and Morton.
- Valve Engineering Company, assignee: *See*—  
Caldwell, Walter T.
- Vana, Charles A., Brecksville, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Copolymerizing monoethylenic hydrocarbons with compounds of the maleic anhydride type. 2,430,313; Nov. 4.
- Van Agtmael, George, Vancouver, Wash. Trailer for boats. 2,415,771; Feb. 11.
- Van Aken, Johannes S. A. J. M., Lutterade, Netherlands, assignor to De Directie van de Staatsmijnen, Washington, D. C. Production of ammonium sulfate. 2,415,772; Feb. 11.
- Van Akkeren, Antonius J. J., The Hague, assignor of one-half to N. K. Bos, Voorburg, Netherlands. Lacing needle. 2,418,377; Apr. 1.
- Van Allan, James A.: *See*—  
Allen, Charles, F. H., and Van Allan.
- Van Allan, James A., and J. E. Jones, assignors to Eastman Kodak Company, Rochester, N. Y. Tetrahydro-dyric acid. 2,428,860; Oct. 14.
- Van Allen, William A., Cambridge, assignor to Ultrasonic Corporation, Boston, Mass. Modulator for sound waves. 2,424,375; July 22.
- Van Arendonk, Arthur M., assignor to Eli Lilly and Company, Indianapolis, Ind. Preparation of 6-methoxyquinoline-N-oxide. 2,416,658; Feb. 25.
- Van Arsdel, Fred, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Frictional mechanism and expander therefor. 2,414,005; Jan. 7.
- Van Atta, George R., Berkeley, and D. F. Houston, El Cerrito, Calif., assignors to United States of America as represented by the Secretary of Agriculture. Process for vapor-phase dehydrochlorination. 2,430,897; Nov. 18.
- Van Billiard, Lewis H., Newton, Conn., assignor to General Electric Company. Variable capacitor. 2,426,905; Sept. 2.
- Van Brunt Manufacturing Co., The, assignee: *See*—  
Borngraeber, Royce R.  
Hyland, William A., and Borngraeber.  
Hyland, William A., and Schnell.  
Hyland, William A., and Starr.  
Paul, Talbert W.
- Van Camp, Roscoe C.: *See*—  
Somers, Richard M., and Van Camp.
- Van Campen, John H.: *See*—  
Kenyon, William O., and Van Campen.
- Van Campen, Marcus G., Jr.: *See*—  
Shelton, Robert S., and Van Campen.
- Vance, Arthur W., Cranbury, N. J., assignor to Radio Corporation of America. Power supply for electron microscopes. 2,419,428; Apr. 22.



- Vance, Arthur W., Moorestown, N. J., assignor to Radio Corporation of America. Electronic computing circuit. 2,425,405; Aug. 12.
- Vance, Arthur W., Moorestown, N. J., assignor to Radio Corporation of America. Electronic computer. 2,428,596; Oct. 7.
- Vancil, Edgar D., and F. A. Hassman, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Lubricating system for milling machines. 2,425,903; Aug. 19.
- Van Cleef, John C.: *See*—  
Fish, Bernard, Taylor, and Van Cleef.
- Van Daam, Gerrit, Buffalo, N. Y. Combined space heater and grill. 2,422,450; June 17.
- Van Dellen, Lubbert H., Pella, Iowa. Optical projection comparator. 2,428,505; Oct. 7.
- Van den Berg, Antonius C., and H. Kenyon, Blackburn, England, assignors to The Hartford National Bank and Trust Company, as trustee. Diamond die drilling machine. 2,420,920; May 20.
- Vandenbergh, Clarence E., Blue Island, Ill., assignor to International Harvester Company. Device for regulating the thickness of ice formations on evaporator coils. 2,421,819; June 10.
- Van Denberg, Thomas F., Cleveland Heights, and J. Selby, Euclid, assignors to The Titan Valve and Manufacturing Company, Cleveland, Ohio. Valve control mechanism. 2,417,577; Mar. 18.
- Van Denberg, Thomas F., Cleveland Heights, and J. Selby, Euclid, assignors to The Titan Valve and Manufacturing Company, Cleveland, Ohio. Safety shutoff valve mechanism. 2,427,935; Sept. 23.
- Van Den Bergh, William, O. H. Johnson, and C. Pastoor, assignors to Grand Rapids Packing Company, Grand Rapids, Mich. Lifting truck. 2,431,096; Nov. 18.
- Van Denburg, John W., New York, N. Y. Sewage disposal equipment. 2,430,749; Nov. 11.
- Vanderbaugh, Albert H.: *See*—  
Stuart, John C. K., and Vanderbaugh.
- Vanderbilt, R. T., Co., Inc., assignee: *See*—  
Craig, William L.  
Curtis, Ernest B.  
Johnston, Norman F.
- Vander Henst, Abraham, assignor to National Brass Company, Grand Rapids, Mich. Locking latch. 2,420,113; May 6.
- Vander Henst, Abraham, assignor to National Brass Company, Grand Rapids, Mich. Latch. 2,420,114; May 6.
- Van Dermark, Lloyd H.: *See*—  
Schall, William R., Jr., and Van Dermark.
- Van der Pyl, Edward, Holden, assignor to Norton Company, Worcester, Mass. Furnace construction for fusing refractory materials and the like. 2,426,644; Sept. 2.
- Vandersee, Arnold E., assignor of one-half to H. W. Dieringer, Chicago, Ill. Multiple wire feed mechanism. 2,414,181; Jan. 14.
- Van der Valk, Johannes H. A. P. L., Oakland, assignor to Shell Development Company, San Francisco, Calif. Alkylation process. 2,428,506; Oct. 7.
- Vandervoort, Lorain N., assignor to The Parker Appliance Company, Cleveland, Ohio. Swivel fitting. 2,421,974; June 10.
- Vander Weele, John C.: *See*—  
Britton, Edgar C., Livak, and Vander Weele.
- Vanderwell, Raimund G., Woodbury, assignor to Chase Brass & Copper Co., Incorporated, Waterbury, Conn. Laminated heat-exchange fin. 2,426,536; Aug. 26.
- Van Der Werff, Jacob B., Pasadena, Calif., assignor to Adel Precision Products Corp. Hydraulic remote-control system. 2,417,278; Mar. 11.
- Van Der Werff, Jacob B., Pasadena, Calif., assignor to Adel Precision Products Corp. Valve. 2,431,437; Nov. 25.
- Van der Willigen, Paul C., J. J. Kreupeling, and J. J. de Jong, Eindhoven, Netherlands, assignors to Hartford National Bank & Trust Co., Hartford, Conn., as trustee. Coated welding rod. 2,429,175; Oct. 14.
- Vander Woude, Philip J.: *See*—  
Busignies, Henri G., and Vander Woude.  
Clark, Trevor H., and Vander Woude.
- Vanderzee, Harry H., Racine, Wis., assignor to Joy Manufacturing Company. Lubricator for idler bearings. 2,421,530; June 3.
- Van Der Ziel, Aldert: *See*—  
Strutt, Maximilian J. O., and van der Ziel.  
Strutt, Maximilian J. O., van der Ziel, and Alma.
- Van de Veer, Roy M., Richmond, Calif. Wire twisting tool. 2,433,494; Dec. 30.
- Vandewater, Donald B., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Electrically heated rotatable cylinder drain means. 2,429,704; Oct. 28.
- Van Doorninck, Frederick H., Stewartsville, N. J., assignor to C. K. Williams & Co., Easton, Pa. Material handling apparatus. 2,413,933; Jan. 7.
- Van Dorn, William E., Pasadena, assignor to Aerojet Engineering Corporation, Azusa, Calif. Jet thrust motor. 2,426,537; Aug. 26.
- Van Dornick, Edward M., assignor to Foster Wheeler Corporation, New York, N. Y. Method and apparatus for fluid catalytic conversion. 2,429,247; Oct. 21.
- Van Dresser Specialty Corporation, assignee: *See*—  
Shockey, Newton E.
- Van Dusen Engineering Company, assignee: *See*—  
Van Dusen, Lawrence W.
- Van Dusen, Lawrence W., assignor to Van Dusen Engineering Company, San Diego, Calif. Map projection device. 2,431,847; Dec. 2.
- Van Dyke, Frank G., Detroit, Mich. Electrode holder. 2,423,058; June 24.
- Van Dyke, Frank G., assignor to Bordon Mfg. Co., Inc., Detroit, Mich. Electrode holder. 2,430,376; Nov. 4.
- Vane Wheel Company, assignee: *See*—  
De Vlieg, Charles B.
- Vanek, Otto J., Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey. Heat-treating apparatus. 2,426,718; Sept. 2.
- Van Epps, John N., Cleveland Heights, and J. W. Kraus, and F. Magyar, assignors to Thompson Products, Inc., Cleveland, Ohio. Sealing machine. 2,433,176; Dec. 23.
- Van Etten, Florence H., assignee, et al.: *See*—  
Heim, Lewis R.
- Van Etten, Myron, assignor to The Salem Engineering Company, Salem, Ohio. Freezing of foods. 2,419,380; Apr. 22.
- Vanetzian, Alexander, London, England. Lighter using vaporisable fluids. 2,424,781; July 29.
- Van Frank, Charles P., Mooreland, Okla. Cooling jacket for milk cans. 2,426,475; Aug. 26.
- Vang, Alfred, Newark, N. J. Method and apparatus for carburetion. 2,414,494; Jan. 21.
- Vang, Alfred, Summit, N. J. Method and means for precipitating fog. 2,414,495; Jan. 21.
- Vang, Alfred, New York, N. Y. Constructing air-cooled cylinders. 2,420,332; May 13.
- Vang, Alfred, New York, N. Y. Evaporator. 2,420,691; May 20.
- Vang, Alfred, New York, N. Y. Electric discharge, ultra high frequency generating, and switching tubes. 2,423,858; July 15.
- Vang, Alfred, New York, N. Y. Apparatus for converting electrical condenser discharges into mechanical power. 2,425,767; Aug. 19.
- Vang, Alfred, New York, N. Y. Mercury tube and circuit therefor. 2,432,051; Dec. 2.
- Vang, Alfred, New York, N. Y. Apparatus and method for generating sound. 2,432,218; Dec. 9.
- Vang, Alfred, New York, N. Y. Self-synchronizing tube discharge control system. 2,432,219; Dec. 9.
- Van Geel, Willem C., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Blocking layer cells comprising one or more grids embedded in the blocking layer. 2,428,400; Oct. 7.
- Van Gessel, Karel, Scarsdale, assignor, by mesne assignments, to Philips Laboratories, Inc., Irving-on-Hudson, N. Y. Electron discharge device. 2,431,097; Nov. 18.
- Van Hoesen, Florence B., Syracuse, N. Y. Surgical boot. 2,423,354; July 1.
- Van Hofweegen, Johannes M., and M. J. O. Strutt, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Push-pull circuit arrangement for ultra-short waves. 2,427,241; Sept. 9.
- Van Horn, James J., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. Re. 22,915; Sept. 16.
- Van Horn, James J., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Coded track circuit railway traffic controlling apparatus and switch control. 2,430,314; Nov. 4.
- Van Horne, Mark, Rochester, N. Y. Motor mural comprising a canvas moved along a wall from one spool to another. 2,419,802; Apr. 29.
- Van Horne, William L.: *See*—  
Hurd, Loren, and Van Horne.
- Van Houten, Stephen T., Allendale, N. J. Fire extinguishing system. 2,421,303; May 27.
- Vanity Fair Mills, Inc., assignee: *See*—  
Amidon, Roy C.  
Young, George O.
- Van Karner, Joseph W., assignee: *See*—  
Allen, David W.
- Van Karner, Joseph W., New York, N. Y. Smoke producing device. 2,423,859; July 15.
- Van Karner, Joseph W., New York, N. Y. Firing mechanism for signal pistols. 2,433,309; Dec. 23.
- Van Laethem, Frans, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y. Selector switch for telecommunication systems. 2,423,131; July 1.
- Van Lanen, James M.: *See*—  
Tanner, Fred W., Jr., and Van Lanen.
- Van Lennep, Gustav J., Washington, D. C. Implement for removal of ice cubes from trays. 2,419,381; Apr. 22.
- Van Lew, Frederick D., Bronxville, N. Y. Electric control system. 2,420,577; May 13.
- Van Meter, Morton, Union, N. J. Brake system. 2,431,848; Dec. 2.
- Van Ness, Cornelius, New Canaan, Conn. Cooking utensil. 2,429,282; Oct. 21.
- Van Nimwegen, Garret, C. von Doenhoff, and C. E. Wooddell, assignors to The Carborundum Company, Niagara Falls, N. Y. Rubber bonded abrasives. 2,422,153; June 10.



- Vannini, Philipp, Zug, Switzerland, assignor to Landis & Gyr, A. G. Mechanism with intermittent release of a driving work. 2,426,801; Sept. 2.
- Van Norman Company, assignee: *See*—  
Healy, Francis P.  
Healy, Francis P., and Allen.
- Van Nuys, Claude C., Greenwich, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Separation of the constituents of gaseous mixtures. 2,417,279; Mar. 11.
- Van Nuys, Claude C., Greenwich, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Separation of the constituents of air. 2,423,273; July 1.
- Van Nuys, Claude C., Greenwich, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Recovery of the components of air. 2,423,274; July 1.
- Van Nuys, Claude C., Greenwich, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Separation of the constituents of gaseous mixtures. 2,424,201; July 15.
- Van Nuys, Claude C., Greenwich, Conn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Separating the components of air. 2,433,536; Dec. 30.
- Van Orden, Paul S., Stirling, assignor to Breeze Corporation, Inc., Newark, N. J. Apparatus for encasing tubular conduits. 2,432,701; Dec. 16.
- Van Patten, Charles D., Flint, Mich. Hydroplane boat hull form. 2,423,860; July 15.
- Van Peski, Adrianus J., Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Isomerizing hydrocarbons. 2,415,197; Feb. 4.
- Van Rosen, Robert, New York, N. Y., assignor to J. Makowsky Corporation. Hinged cover triangular carton. 2,419,510; Apr. 22.
- Van Rossum, Bernardus: *See*—  
Gall, Bernardus O. M., and van Rossum.
- Van Ryan, Anthony: *See*—  
Kyle, William D., Jr., and Van Ryan.
- Van Ryan, Anthony, assignor to Kyle Corporation, South Milwaukee, Wis. Protecting means for electrical instrumentalities. 2,430,838; Nov. 11.
- Van Ryan, Anthony, assignor to Kyle Corporation, South Milwaukee, Wis. Clamp type connector. 2,432,635; Dec. 16.
- Van Sant, Victor H., Westfield, N. J., assignor to Federal Telephone & Radio Corporation, New York, N. Y. Grid winding machine. 2,425,015; Aug. 5.
- Van Scherpenzeel, Pieter H., West Asheville, assignor to American Enka Corporation, Enka, N. C. Vacuum drying packages of yarn including rotating the packages. 2,432,951; Dec. 16.
- Van Scherpenzeel, Pieter H., West Asheville, assignor to American Enka Corporation, Enka, N. C. Apparatus for vacuum drying packages of yarn having means for rotating the packages. 2,432,952; Dec. 16.
- Van Sciever, Thomas P., Denver, Colo. Navigational computer. 2,433,249; Dec. 23.
- Vanselow, Lorin G., Milwaukee, Wis. Yarn knitting guide. 2,423,211; July 1.
- Van Sickle, Roswell C., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,422,603; June 17.
- Van Sickle, Roswell C., Wilkinsburg, B. P. Baker, Turtle Creek, and E. H. Hall, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,428,597; Oct. 7.
- Van Sickle, Roswell C., Wilkinsburg, and R. E. Friedrich, and F. J. Fry, Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,424,343; July 22.
- Van Sickle, Robert, Shreveport, La. Proofreading machine. 2,428,822; Oct. 14.
- Van Sclen, William A., assignee, et al.: *See*—  
Plant, Irvin, and Miltenberger.
- Van Sittert, Paul, Shaker Heights, and W. R. Kovacs, assignors to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Fastener. 2,430,486; Nov. 11.
- Van Sittert, Paul, Shaker Heights, and W. R. Kovacs, assignors to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Fastener. 2,430,839; Nov. 11.
- Van Sittert, Paul, Shaker Heights, Ohio, assignor, by mesne assignments, to Reed Roller Bit Company, Houston, Tex. Valve control mechanism for pressure fluid motors. 2,433,719; Dec. 30.
- Van Slooten, Jacob, and A. van Weel, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Frequency converter system. 2,432,183; Dec. 9.
- Van Suchtelen, Harold, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Device for electromagnetic deflection of a cathode-ray. 2,420,156; May 6.
- Van Valkenburg, Hermon L., Wauwatosa, Wis., assignor to Square D Company, Detroit, Mich. Thermal relay with replaceable tripping unit. 2,433,720; Dec. 30.
- Van Valkenburg, Hermon L., Wauwatosa, and C. A. Schaefer, Whitefish Bay, Wis., assignors to Square D Company, Detroit, Mich. Electric switch. 2,426,129; Aug. 19.
- Van Valkenburgh, Merritt, Upper Nyack, N. Y., assignor to M. H. Rhodes, Incorporated, Hartford, Conn. Electric switch. 2,431,849; Dec. 2.
- Van Vleet, John M., Wauwatosa, assignor to Kyle Corporation, South Milwaukee, Wis. Electrical connector. 2,416,423; Feb. 25.
- Van Vleet, John M., Wauwatosa, assignor to Kyle Corporation, South Milwaukee, Wis. Electrical connector. 2,432,636; Dec. 16.
- Van Voorhis, Bruce A.: *See*—  
Ott, George A., and Van Voorhis.
- Van Vorst, James H., Dumont, N. J., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing machine. 2,425,970; Aug. 19.
- Van Weel, Adelbert: *See*—  
Van Slooten, Jacob, and van Weel.
- Van Wert, S. N., assignee: *See*—  
Lawton, Joseph B.
- Van Winkle, Delbert M.: *See*—  
Zener, Clarence M., and Van Winkle.
- Van Winkle, John L.: *See*—  
Morris, Rupert C., and Van Winkle.  
Snider, Alva V., and Van Winkle.
- Van Winkle, Marshall, Jr., Oceanport, N. J. Lock nut. 2,431,627; Nov. 25.
- Van Zwielen, Inge, Brooklyn, N. Y. Thermostatic steam trap. 2,432,838; Dec. 16.
- Vapor Car Heating Company, Inc., assignee: *See*—  
Peterson, William R.
- Varcoe, Charles W., Danbury, Conn. Angle plate clamping bracket. 2,418,059; Mar. 25.
- Varian, Russell H.: *See*—  
Hansen, William W., and Varian.
- Varian, Russell H., Garden City, and M. Nelson, Kew Gardens, N. Y., assignors to Sperry Gyroscope Company, Inc. High-frequency apparatus utilizing electron debunching. 2,414,843; Jan. 28.
- Varian, Russell H., Wantagh, and W. W. Hansen, Garden City, N. Y., assignors to The Board of Trustees of the Leland Stanford Junior University, Stanford University, Calif. Radio measurement of distances and velocities. 2,415,095; Feb. 4.
- Varian, Sigurd F.: *See*—  
Harrison, Arthur E., and Varian.
- Varian, Sigurd F., Garden City, N. Y., assignor to Sperry Gyroscope Company, Inc. Electrode structure. 2,421,767; June 10.
- Varian, Sigurd F., West Hempstead, and D. R. Hamilton, Garden City, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. High frequency tube structure. 2,414,496; Jan. 21.
- Varner, Alvie E., and F. M. Pettingill, assignors to Masonite Corporation, Laurel, Miss. Apparatus for bending. 2,431,353; Nov. 25.
- Varner, Robert F., Hicksville, Ohio. Tractor accessory. 2,424,005; July 15.
- Varney, Frank H., assignee: *See*—  
Dysart, Ronald R.
- Varnum, Walter B., Collingswood, N. J., assignor to Radio Corporation of America. Pulse forming circuit. 2,430,315; Nov. 4.
- Varon, Max A., Chicago, Ill., and C. S. Malone, Owensboro, Ky. Gaiter. 2,422,055; June 10.
- Varone, Ralph A., Audubon, N. J., assignor to Radio Corporation of America. Two-way radio system. 2,431,212; Nov. 18.
- Vars, Ethan W., assignor to A. P. Bixler, doing business as Aldon Products Company, Duncannon, Pa. Trailer hitch. 2,432,357; Dec. 9.
- Vartanian, Martin, New York, N. Y. Valve and strainer unit. 2,429,435; Oct. 21.
- Vasbinder, Howard L.: *See*—  
Lampton, Glen T., Vasbinder, and Dissel.
- Vasey, William G., New Westminster, British Columbia, Canada. Folding spectacle frames. 2,419,303; Apr. 22.
- Vasileff, Natcho, Loch Arbour, N. J. Resistor. 2,428,053; Sept. 30.
- Vasquez, John G., Hartford, Conn. Multiple compartment handbag. 2,429,856; Oct. 28.
- Vatter, Clifford C., assignor to The Bradley & Gilbert Company, Louisville, Ky. Container having an inner slidable merchandise carrier. 2,422,152; June 10.
- Vaughan, Charles S., Jr., Tusculuma, Ala. Cable stripper. 2,419,511; Apr. 22.
- Vaughan, Joseph A.: *See*—  
Harvey, Jacqueline E., Jr., White, and Vaughan.
- Vaughan, Lucious, Highland Springs, assignor to Larus & Brother Company, Inc., Richmond, Va. Dispenser, with means for vibrating a conveyor type trap chamber. 2,416,553; Feb. 25.
- Vaughan, Victor G., assignor to Metals & Controls Corporation, Attleboro, Mass. Manual reset thermostatic switch in protective systems. 2,426,906; Sept. 2.
- Vaughan, Victor G., assignor to Metals and Controls Corporation, Attleboro, Mass. Electric range heating unit. 2,430,196; Nov. 4.
- Vaughan, William E.: *See*—  
Rust, Frederick F., Raley, and Vaughan.  
Rust, Frederick F., and Vaughan.
- Vaughan, William E., and F. F. Rust, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Di (tertiary alkyl) peroxide polymerization catalysts. 2,426,476; Aug. 26.
- Vaughan, William E., Berkeley, and H. C. Kennedy, Oakland, assignors to Shell Development Company, San Francisco, Calif. Valve packing composition. 2,427,636; Sept. 16.
- Vaughen, John V.: *See*—  
Trepagnier, Joseph H., and Vaughen.



- Vaughn, George A., assignor to The Parsons Company, Newton, Iowa. Wheel trenching machine. 2,423,132; July 1.
- Vaughn Machinery Company, The, assignee: *See*—Nye, Norman H., and Rogers.
- Vaughn, Steven D., Portland, Oreg. Metalworking tool. 2,415,267; Feb. 4.
- Vaughn, Thomas H.: *See*—Wegst, Walter F., Bacon, and Vaughn.
- Wegst, Walter F., Bacon, Vaughn, and Crawford.
- Vaughn, Thomas H., Grosse Ile, assignor to Wyandotte Chemicals Corporation, Wyandotte, Mich. Pyrolysis of alkylene glycol monoacyl esters. 2,415,378; Feb. 4.
- Vawryk, Mike, Lyndora, Pa. Soldering iron. 2,415,542; Feb. 11.
- Vawter, Dale, Greensburg, Pa. Portable flushing and filtering unit. 2,425,848; Aug. 19.
- Veall, Eugene S., assignee, et al.: *See*—Evans, Homer E.
- Veale, Charles C.: *See*—Cherry, George L.
- Cherry, George L., and Veale.
- Vecchio, Luigi, and H. E. Young, Syracuse, N. Y. Electrotherapeutic device. 2,431,525; Nov. 25.
- Vedder, Herman C., Pinckney, Mich. Junction box with electrical connectors. 2,431,002; Nov. 18.
- Veeder-Root Incorporated, assignee: *See*—Bliss, Harvey N.
- Velcott, Cyril G., Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Polyphase armature winding. 2,414,571; Jan. 21.
- Velcott, Cyril G., Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Self-cooled rectifier. 2,424,344; July 22.
- Velcott, Cyril G., Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Alternating-current motor system. 2,426,071; Aug. 19.
- Veit, Hermann E., Towson, and W. C. Miles, Baltimore, assignors to The Glenn L. Martin Company, Middle River, Md. Apparatus for beading or flaring metal tubing. 2,421,667; June 3.
- Velch, Frederick J., Flushing, N. Y. Garter. 2,417,332; Mar. 11.
- Velde, Hermann: *See*—Martin, Friedrich, Gottschall, and Velde.
- Velez, Robert, New York, N. Y. Electrical plug. 2,431,213; Nov. 18.
- Veltman, Preston L., Beacon, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Catalytic treatment of hydrocarbon oils. 2,415,716; Feb. 11.
- Venditty, Anthony, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Universal joint. 2,421,134; May 27.
- Venditty, Anthony, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Joint. 2,421,588; June 3.
- Venditty, Anthony, Detroit, Mich., assignor to Thompson Products, Inc. Rubber bushed tie rod joint. 2,425,138; Aug. 5.
- Veneklasen, Paul S., Saugus, Mass., assignor to the United States of America, as represented by the Executive Secretary of the Office of Scientific Research and Development. Earphone socket structure. 2,423,355; July 1.
- Veneklasen, Paul S., Saugus, Mass., assignor to the United States of America as represented by the Executive Secretary of the Office of Scientific Research and Development. Boom mounting for microphones. 2,428,746; Oct. 7.
- Vennes, Harold J.: *See*—Konicek, Frank, and Vennes.
- Ventura, John, Brooklyn, N. Y. Window lock. 2,432,637; Dec. 16.
- Verbanc, John J.: *See*—Neal, Arthur M., and Verbanc.
- Verbanc, John J., Tuxedo Park, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Adhesive compositions and process. 2,417,792; Mar. 18.
- Verbeek, Henri P. J., Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Automatic selectivity control in radio receivers. 2,429,734; Oct. 28.
- Ver Bryck, James L.: *See*—Davis, Clyde O., Lawson, and Ver Bryck.
- Verdex Company, The, assignee: *See*—Solomon, Joseph W.
- Vergobbi, John G., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Packaging machine. 2,415,978; Feb. 18.
- Vergobbi, Robert W.: *See*—Enton, Lewis B., and Vergobbi.
- Vergobbi, Robert W., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Bullet handling apparatus. 2,428,103; Sept. 30.
- Veria, Rosario, Los Angeles, Calif. Eraser. 2,419,746; Apr. 29.
- Vermeulen, Roelof, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn. Microphone. 2,421,820; June 10.
- Vermillion, Thomas R., Williamsburg, Va. Dermotome with threaded and adjustable guide rod for cutting skin grafts of varying thickness. 2,426,381; Aug. 26.
- Verner, James F., Pocahtontas, Iowa. Rubber insulator for wires of electric fences. 2,429,857; Oct. 28.
- Vernon, James B., Marion, Iowa. Turbine. 2,425,904; Aug. 19.
- Verrinder, Ernest A., Redlands, assignor to Food Machinery Corporation, San Jose, Calif. Fruit marking machine. 2,424,006; July 15.
- Verson Allsteel Press Company, assignee: *See*—Werner, Herbert B.
- Versoy, Irving R., assignor to The Berger Brothers Company, New Haven, Conn. Detachable connection. 2,429,782; Oct. 28.
- Verti, Domenico, Astoria, Long Island, N. Y. Trousers. 2,427,637; Sept. 16.
- Verwaltungsgesellschaft der Werkzeugmaschinenfabrik Oerlikon, assignee: *See*—Lippert, Hanns, and Schalkli.
- Vesce, Vincent C., Ridgewood, assignor to Harmon Color Works, Inc., Paterson, N. J. Producing pigmented rubber. 2,419,512; Apr. 22.
- Vesce, Vincent C., Ridgewood, assignor to Harmon Color Works, Inc., Paterson, N. J. Pigment preparations. 2,432,461; Dec. 9.
- Vesely, Josef, Winchmore Hill, London, England. Assembling the body and butt of automatic firearms. 2,423,740; July 8.
- Vesper, Karl C., Santa Monica, Calif. Artificial limb. 2,416,030; Feb. 18.
- Vest, Joe R., assignor of fifty per cent to E. L. Burrall, Phoenix, Ariz. Vacuum apparatus for investing patterns. 2,416,506; Feb. 25.
- Veszl, Gabor A., and P. Markus, Bishop's Stortford, England. Series photoelectric cells. 2,428,537; Oct. 7.
- Vetter, Otto B., Chicago, Ill., assignor, by mesne assignments, to Hagan Corporation, Pittsburgh, Pa. Control mechanism. 2,429,083; Oct. 14.
- Veyt, Raymond P. L., assignor to Baby-Flix, Société Anonyme, Brussels, Belgium. Belt for babies and other small children. 2,429,283; Oct. 21.
- Vezleris, Nicholas J., assignee, et al.: *See*—O'Toole, Richard F., and Parlani.
- Vibert, Charles M., Oak Park, Ill. Shingle construction. 2,418,563; Apr. 8.
- Vibro-Plus Corporation, assignee: *See*—Wenander, Harold S.
- Vicars, T & T, Limited, assignee: *See*—White, Percy.
- Vickers-Armstrongs Limited, assignee: *See*—Clifton, John C., and Rabarts.
- Eastes, John C.
- Holden, Warwick C., and Naylor.
- Ingoldby, Maurice K., and Abbink-Spauk.
- Ingoldby, Maurice K., Abbink-Spauk, and Spencer.
- Vickers, Harry F., Washington, D. C., assignor, by mesne assignments, to Vickers, Incorporated, Detroit, Mich. Fuse setter. 2,416,244; Feb. 18.
- Vickers Incorporated, assignee: *See*—Gardiner, Duncan B.
- Porskievies, Anthony J.
- Robinson, James.
- Shartle, Robert A.
- Vickers, Harry F.
- Vickers, Robert D.: *See*—Rogers, Thomas H., and Vickers.
- Rogers, Thomas H., Jr., and Vickers.
- Vickers, Theodore W., Los Angeles, Calif. Electrical machine. 2,413,805; Jan. 7.
- Vickland, John: *See*—Karlsson, Per H., and Vickland.
- Victor Adding Machine Co., assignee: *See*—Mehan, Thomas O., and Hooe.
- Victor Chemical Works, assignee: *See*—Adler, Howard.
- Toy, Arthur D. F.
- Victor Equipment Company, assignee: *See*—Stettner, Ludwig W., and Heinemann.
- Victor Metal Products Corporation, assignee: *See*—Apfelbaum, Huna L.
- Temple, George W.
- Victoreen, John A., Cleveland, Ohio. Resistor and making the same. 2,416,599; Feb. 25.
- Vidal Corporation, assignee: *See*—Marhoefer, Lawrence J.
- Marhoefer, Laurence J., Taylor, and Vidal.
- Vidal, Eugene L., and Marhoefer.
- Vidal, Eugene L.: *See*—Marhoefer, Laurence J., Taylor, and Vidal.
- Vidal, Eugene L., New York, N. Y., and L. J. Marhoefer, Haddon Heights, assignors to Vidal Corporation, Camden, N. J. Laminated structure and method. 2,431,214; Nov. 18.
- Viehweger, August, Comstock Park, Mich. Machine for making tubular parts from strip material. 2,422,272; June 17.
- Viehweger, August, Comstock Park, assignor to Grand Rapids Hardware Company, Grand Rapids, Mich. Sash balance. 2,425,659; Aug. 12.
- Vieira, Nicholas R., Charlotte, N. C., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dyeing textile fibers with vat dyes. 2,415,379; Feb. 4.
- Viel, Edmond P. R., Paris, France. Two-cycle engine. 2,420,454; May 13.
- Vieweg, Hermann F.: *See*—Dinkfeld, August M., and Vieweg.



- Vigren, Sten D.: *See*—  
Rost, Helge F., Thunell, Vigren, and Claesson.
- Viles, Frederick J., Jr.: *See*—  
Silverman, Leslie, and Viles.
- Viles, Prentiss S., Goose Creek, Tex., assignor to Standard Oil Development Company. Production of butadiene. 2,417,280; Mar. 11.
- Viles, Prentiss S., Goose Creek, Tex., assignor to Standard Oil Development Company. Recovery of isobutylene. 2,431,526; Nov. 25.
- Viljoen, Daniel J., Brakpan, Transvaal Province, Union of South Africa. Jointing clip for electric battery terminals and the like. 2,431,215; Nov. 18.
- Vilkomerson, Benjamin S., Camden, N. J., assignor to Radio Corporation of America. Oscillation generator for low frequencies. 2,415,773; Feb. 11.
- Villano, Ignazio, assignee, et al.: *See*—  
La Cagnina, Orazio.
- Vilter, Ernest F., W. E. Michener, K. L. Kraatz, M. E. Ruess and C. G. Bach, assignors to The Vilter Manufacturing Company, Milwaukee, Wis. Compressor. 2,427,638; Sept. 16.
- Vilter Manufacturing Co., The, assignee: *See*—  
Vilter, Ernest F., Michener, Kraatz, Ruess, and Bach.
- Vilter Manufacturing Company, The, assignee: *See*—  
Baars, Ernst S. H.
- Vincelle, Dorothy, Oakland, Calif. Shampoo cap. 2,424,129; July 15.
- Vincent, Arnold, assignor to Footmobile Corporation, New York, N. Y. Roller skate device. 2,430,037; Nov. 4.
- Vincent, Chester M.: *See*—  
Solakian, Haig, and Vincent.
- Vincent, Daniel B., Tampa, Fla. Making a food product. Re. 22,865; Apr. 8.
- Vincent, Edward T.: *See*—  
Bigos, Walter and Vincent.
- Vincent, Edwin E.: *See*—  
Martin, Erle, Lampton, and Vincent.
- Vincent, George P., Briarcliff Manor, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Sugar decolorization. 2,430,262; Nov. 4.
- Vincent, Jesse G., Grosse Pointe Park, assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 2,418,102; Mar. 25.
- Vincent, John R., Wilmington, and G. Etzel, Newark, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Additive terpene ethers of mercapto-acids as milling aids for butadiene-styrene copolymers. 2,429,858; Oct. 28.
- Vincent, Joseph F., assignor to Wingfoot Corporation, Akron, Ohio. Stretchwrapping device. 2,425,581; Aug. 12.
- Vinco Corporation, assignee: *See*—  
Bennett, Racy D.  
Hutto, Marsden C.
- Vine, Reginald C.: *See*—  
Flood, Reginald F. J., and Vine.
- Vingee, Raymond A., Geddes, assignor to The Solvay Process Company, New York, N. Y. Production of nitrous oxide. 2,425,582; Aug. 12.
- Vining, Willard F., Chicago, and M. L. Rowe, Oak Park, Ill., assignors to Gerrard Steel Strapping Company. Automatic wire tying machine. 2,416,859; Mar. 4.
- Vinson, Loren O., Seattle, Wash. Hole aligner and sheet metal fastener. 2,428,641; Oct. 7.
- Vinton, William H., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Beta (acylthio) aldehydes and ketones and their preparation. 2,427,582; Sept. 16.
- Vinyard, Roy E., Phillips, Tex., assignor to Phillips Petroleum Company. Distillation of hydrogen fluoride-hydrocarbon mixtures at constant rate. 2,417,669; Mar. 18.
- Violante, Anthony E., Detroit, Mich. Overhead and swingably mounted balanced door. 2,425,905; Aug. 19.
- Violette, Richard J., Washington, D. C., and I. H. Page, Cheverly, Md. Stuffing box. 2,429,654; Oct. 28.
- Virden, John C., Company, assignee: *See*—  
MacFadden, Glenn E.
- Virtue, George, Boston, Mass. Making wear-resistant leather. 2,413,806; Jan. 7.
- Visitacion, Aniceto R., New York, N. Y. Electric stove control. 2,417,223; Mar. 11.
- Visking Corporation, The, assignee: *See*—  
Gold, Marvin H.  
Wilcoxon, Kenneth.
- Visocan, Andy H., Raynesford, Mont. Temperature alarm. 2,429,572; Oct. 21.
- Vital Products Manufacturing Company, assignee: *See*—  
Sherbondy, William E.
- Vitale, Sebastian J., Fulton, Mo. Athletic supporter with a sacroiliac protective pad. 2,427,428; Sept. 16.
- Vitalis, Emil A., East Port Chester, Conn., assignor to American Cyanamid Company, New York, N. Y. Antifogging composition. 2,414,074; Jan. 7.
- Vitalis, Emil A., East Port Chester, and J. E. Lynn, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Textile softening composition. 2,427,242; Sept. 9.
- Vitek, Charles, Omaha, Nebr., assignor to Dependable Manufacturing Company. Adjustable stool and the like. 2,415,663; Feb. 11.
- Vittum, Paul W.: *See*—  
Brown, Gordon H., Vittum, and Jelley.
- Vittum, Paul W., Rochester, N. Y., and R. J. Arnold, Los Angeles, Calif., assignors to Eastman Kodak Company, Rochester, N. Y. Photographic color correction using colored couplers. 2,428,054; Sept. 30.
- Vixler, Leslie F.: *See*—  
Reeves, Herbert M., and Vixler.
- Vizard, William C., assignor to Barbour Welting Company, Brockton, Mass. Two-unit welting. 2,414,249; Jan. 14.
- Vizard, William C., assignor to Barbour Welting Company, Brockton, Mass. Heavy-edge welting. 2,427,984; Sept. 23.
- Voegel, Clayton B., Indianapolis, Ind. Wall structure. 2,430,654; Nov. 11.
- Voelker, Hans G.: *See*—  
Johnson, Herbert L., Voelker, and Stuart.
- Voelker, Helmut, Silvertown, Ga., and W. H. Wolfe, Lancaster, S. C., assignors to The B. F. Goodrich Company, New York, N. Y. Apparatus for spraying beamed yarns. 2,425,214; Aug. 5.
- Voge, Hervey H.: *See*—  
Eggertsen, Frank T., and Voge.  
Good, George M., Voge, and Greensfelder.  
Greensfelder, Bernard S., Voge, and Good.
- Vogel, Frank, Philadelphia, Pa. Needle threader. 2,419,861; Apr. 29.
- Vogel, Paul C., Waukesha, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Tilting induction furnace with leads extending through a trunnion. 2,433,495; Dec. 30.
- Vogeley, Raymond A., assignee, et al.: *See*—  
Dowling, Clinton.
- Vogeli, Harry E., Alliance, assignor to The Salem Engineering Company, Salem, Ohio. Material-treating mechanism. 2,423,629; July 8.
- Vogt, Charles A., St. Marys, assignor to Sylvania Electric Products Inc., Emporium, Pa. Electron tube tapping device for defect testing. 2,418,437; Apr. 1.
- Vogt, Clarence W., assignee: *See*—  
Lakso, Eino E.
- Vogt, Clarence W., Norwalk, Conn. Process and apparatus for repairing tires. 2,421,096; May 27.
- Vogt, Clarence W., Norwalk, Conn. Recapping of tires. 2,421,099; May 27.
- Vogt, Clarence W., Norwalk, Conn., and E. E. Lakso, Fitchburg, Mass.; said Lakso assignor to said Vogt. Repair of tires. 2,421,098; May 27.
- Vogt, Elsa, Philadelphia, Pa. Meat package and preparing the same. 2,423,861; July 15.
- Vogt, Henry, Machine Co., assignee: *See*—  
Edmonds, Eugene A.
- Vogt, John J., Columbus, Ohio, assignor to Curtiss-Wright Corporation. Closure actuating and securing mechanism. 2,422,056; June 10.
- Vogt, Lawrence E.: *See*—  
Flogaus, Howard A., and Vogt.
- Voight, Henry G., and W. S. Edwards, Hamden, assignors to Sargent & Company, New Haven, Conn. Door lock. 2,424,782; July 29.
- Voigt, Paul A., Bellerose, assignor to Johns-Manville Corporation, New York, N. Y. Making siding units. 2,416,554; Feb. 25.
- Voiles Engineering Company, assignee: *See*—  
Voiles, Oscar M.
- Voiles, Oscar M., assignor to Voiles Engineering Company, Royal Oak, Mich. Electric water heater. 2,419,429; Apr. 22.
- Vokes, Cecil G., London, assignor to Vokes Limited, Guilford, Surrey, England. Filter. 2,422,647; June 17.
- Vokes, Cecil G., London, assignor to Vokes Limited, Guilford, Surrey, England. Filter. 2,425,139; Aug. 5.
- Vokes, Cecil G., and A. A. Smith, Guilford, assignors to Vokes Limited, Guilford, Surrey, England. Filtering device. 2,423,741; July 8.
- Vokes Limited, assignee: *See*—  
Vokes, Cecil G.  
Vokes, Cecil G., and Smith.
- Vollazzo, Jesse, Thomasville, Ga., and V. Medveckus, Venice, Fla. Fuel flow warning device. 2,421,768; June 10.
- Volk, Edward W., St. Louis, Mo., assignor to Curtiss-Wright Corporation. Wheel rotating mechanism. 2,425,583; Aug. 12.
- Volk, Vladimir K., Saginaw, Mich. Adjustable shower device. 2,418,915; Apr. 15.
- Volkman Furniture Manufacturing Company, assignee: *See*—  
Renkes, John D.
- Volkstdorf, Hans, assignor to Thomas M. Royal & Co., Philadelphia, Pa. Bag. 2,420,212; May 6.
- Vollet, George: *See*—  
O'Larte, Rudolph, and Vollet.
- Vollmer, Gustav, Kansas City, Mo. Utility rack. 2,430,624; Nov. 11.
- Vollmer, Hermann, New York, N. Y. Diagnostic preparations. 2,422,866; June 24.
- Vollstorf, Karl B.: *See*—  
Schreiber, Carl W., and Vollstorf.
- Volpe, Michael, assignor of 50 per cent to George I. Feilbach, Pittsburgh, Pa. Frame for pool balls. 2,422,939; June 24.
- Volpin, Alexander S., Houston, Tex. Slush pump piston. 2,431,653; Nov. 25.



- Volpin, Alexander S., Houston, Tex. Automatic lubricated valve. 2,433,638; Dec. 30.
- Volpin, Alexander S., assignor to Knud I. Bruun, doing business as Turbolite Company, Houston, Tex. Hammerlock union. 2,417,025; Mar. 4.
- Volks, Nicholas T., Spring Lake, N. J. Variable sensitivity sound-powered receiver. 2,414,129; Jan. 14.
- Volks, Nicholas T., Spring Lake, N. J. Mechanical pressure gauge. 2,429,248; Oct. 21.
- Vonada, Edwin E.: *See—*  
Crothers, Robert W., and Vonada.
- Von Bramer, Harold: *See—*  
Brimer, Marshall R., Magoffin, and Von Bramer.
- Von Capeller, Rudolf: *See—*  
Felix, Friedrich, and von Capeller.
- Von der Heide, Elmer J., assignor, by mesne assignments, to Adamson United Company, Akron, Ohio. Calendar reel drive. 2,414,572; Jan. 21.
- Von Doenhoff, Carl: *See—*  
Van Nimwegen, Garret, von Doenhoff, and Wooddell.
- Von Euler, Hans: *See—*  
Adler, Erich, Gle, and von Euler.
- Von Glahn, William H., Loudonville, N. Y., and M. K. Reichel, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Stabilized aryl diazo-N-sulfonate light-sensitive material. 2,429,249; Oct. 21.
- Von Glahn, William H., Loudonville, and L. N. Stanley, Delmar, assignors to General Aniline & Film Corporation, New York, N. Y. Diazotype layers containing thiourea derivatives of hydroxy benzene. 2,432,549; Dec. 16.
- Von Hippel, Arthur, Weston, and J. H. Schulman, Cambridge, Conn., assignors, by mesne assignments, to Federal Telephone and Radio Corporation, New York, N. Y. Composite selenium electrode. 2,428,055; Sept. 30.
- Von Hippel, Arthur, Weston, and J. H. Schulman, Cambridge, Mass., assignors, by mesne assignments, to Federal Telephone and Radio Corporation, New York, N. Y. Selenium element and treatment. 2,429,655; Oct. 28.
- Von Hofe, George W., Bound Brook, assignor to New Jersey Machine Corporation, Hoboken, N. J. Labeling machine. 2,414,621; Jan. 21.
- Von Hoorn, Fred G., Bridgeport, Conn., assignor to General Electric Company. Circuit breaker. 2,422,508; June 17.
- Von Mehren, Oswald, Wilkinsburg, and B. P. Baker, Turtle Creek, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Pressure operated circuit breaker. 2,431,286; Nov. 18.
- Von Mertens, Ernest K., assignor to United Aircraft Corporation, East Hartford, Conn. Combined spark plug and oscillatory circuit. 2,415,979; Feb. 18.
- Von Mertens, Ernest K., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Planetary gear ignition distributor. 2,427,583; Sept. 16.
- Von Meyenburg, Harald: *See—*  
Hartmann, Max, and von Meyenburg.  
Hartmann, Max, von Meyenburg, and Druey.
- Vonnegut Moulder Corporation, assignee: *See—*  
Bradley, Ernest H.  
De Haven, Oliver S.  
Schulte, John O.
- Von Pein, Edward J., Dayton, Ohio. Head for shuffleboard cues. 2,433,496; Dec. 30.
- Von Sneidern, Arne A., assignor, by mesne assignments, to Aktiebolaget Thulinverken, Landskrona, Sweden. Portable electric exhausting fan. 2,421,304; May 27.
- Von Soden, A. F., & Co., assignee: *See—*  
Dear, Thomas A.
- Von Soden, Adolph F., Los Angeles, Calif. Ribbon positioning writing machines. 2,428,742; July 8.
- Von Stroh, Gerald, Berkeley, assignor to The Permanente Metals Corporation, Oakland, Calif. Compounding rubbery copolymer of butadiene and styrene with amorphous silica and product thereof. 2,428,252; Sept. 30.
- Von Sydow, Rudolph W., assignor to The Gardner-Richardson Company, Middletown, Ohio. Erecting and positioning cartons. 2,429,536; Oct. 21.
- Von Wehrden, Frederick W., St. Louis County, assignor to Broderick & Bascom Rope Company, St. Louis, Mo. Sling and end fitting therefor. 2,426,538; Aug. 26.
- Von Werder, Fritz, Darmstadt, Germany; vested in the Attorney General of the United States. Water-soluble derivatives of 2-methyl-1,4-dihydroxy-naphthalene, and their production. 2,428,253; Sept. 30.
- Voorhees, Vanderveer: *See—*  
Payne, Donald.
- Voorhees, Vanderveer, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Continuous polymerizing olefins. 2,418,797; Apr. 8.
- Voorhees, Vanderveer, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Catalytic hydrocarbon conversion process and apparatus therefor. 2,433,798; Dec. 30.
- Voorhees, Vanderveer, Homewood, assignor to Standard Oil Company, Chicago, Ill. Powdered catalyst regeneration and recovery. 2,425,849; Aug. 19.
- Voorhies, Alexis, Jr., Baton Rouge, La., assignor to Standard Oil Development Company. Production of isobutane and isopentane by destructive hydrogenation of petroleum oils. 2,428,692; Oct. 7.
- Voorhies, Carl, Birmingham, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Valve. 2,415,774; Feb. 11.
- Vorie, Innokent N., Elma, assignor to Colonial Radio Corporation, Buffalo, N. Y. Tuner construction. 2,422,995; June 24.
- Vorobik, Casimer E., U. S. Navy, assignor to United States of America, as represented by the Secretary of the Navy. Binding and covering apparatus. 2,423,862; July 15.
- Vorreyer, Frederick W., Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Punch press actuated staking apparatus. 2,430,377; Nov. 4.
- Vose, Richard S., Swarthmore, assignor to Sun Oil Company, Philadelphia, Pa. Composite fuel and preparation. 2,423,913; July 15.
- Vose, Robert W., West Springfield, and C. H. Plummer, Springfield, Mass., assignors to Chicopee Manufacturing Corporation. Weft straightener. 2,427,753; Sept. 23.
- Voss, J. H. H., Co., assignee: *See—*  
Seligmann, Arthur, and Scharfel.
- Voss, John H., Downers Grove, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Automatic telephone system. 2,416,131; Feb. 18.
- Voss, John H., Downers Grove, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Crossbar switch system with sequentially operated magnets. 2,430,316; Nov. 4.
- Voss, John H., Downers Grove, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Relay automatic telephone system. 2,431,850; Dec. 2.
- Voss, John H., Downers Grove, and H. F. Obergfell, deceased, River Forest, by A. Obergfell, River Forest, executrix, assignors to Automatic Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,418,609; Aug. 8.
- Vossen, Edward, assignor to Stop-Motion Devices Corporation, Brooklyn, N. Y. Stop motion system for knitting machines. 2,432,953; Dec. 16.
- Vossen, Edward, assignor to Stop-Motion Devices Corporation, Brooklyn, N. Y. Electric needle-protector for knitting machines. 2,432,954; Dec. 16.
- Voss, Joseph A., Denver, Colo. Adjustable bed cover support. 2,424,907; July 29.
- Vosskühler, Hugo: *See—*  
Beck, Adolf, Siebel, and Vosskühler.
- Voytech, Charles F., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission. 2,418,378; Apr. 1.
- Vulcan Corporation, assignee: *See—*  
Clausing, George.  
Curll, Harold E., and Smith.
- Vulcan Soot Blower Corporation, assignee: *See—*  
Hibner, De Los E., and Arey.  
Meyers, Sidney E.
- Vutz, Wilhelm, Coldwater, Ohio, assignor, by mesne assignments, to Avco Manufacturing Corporation. Power transmission mechanism. 2,421,044; May 27.
- Vutz, Wilhelm, Coldwater, Ohio, assignor, by mesne assignments, to Avco Manufacturing Corporation. Power transmission shafting and support therefor. 2,427,824; Sept. 23.
- Vuyk, Henri J., Curacao, Netherlands, West Indies. Lubricating, rust-dissolving, and penetrating oil. 2,429,735; Oct. 28.
- Waage, Harold M., Princeton, N. J. Musical instrument. 2,422,940; June 24.
- Waarich, Otto W., assignor to Pheoll Manufacturing Company, Chicago, Ill. Pilot slot screw and driving tool. 2,431,628; Nov. 25.
- Wabash Fibre Box Company, The, assignee: *See—*  
Miller, Andrew E.
- Wachsman, Michael, Brooklyn, N. Y. Fabric contacting circuit closer for knitting machines. 2,429,004; Oct. 14.
- Wachsman, William P., Miami, Fla. Drinking cup cover and baffle. 2,428,056; Sept. 30.
- Wachsmann, Konrad L., assignor to General Panel Corporation, New York, N. Y. Sectional wall structure system. 2,426,802; Sept. 2.
- Wachsmann, Konrad L., New York, N. Y., and W. Gropius, Lincoln, Mass., assignors to General Panel Corporation, New York, N. Y. Building structure. 2,421,305; May 27.
- Wachtel, Jacques L., Peoria, Ill., assignor to United States of America, as represented by the Secretary of Agriculture. Isolation of penicillin. 2,432,638; Dec. 16.
- Wachter, Aaron, Berkeley, assignor to Shell Development Company, San Francisco, Calif. Prevention of corrosion in hydrogen fluoride catalytic organic reactions. 2,431,715; Dec. 2.
- Wachter, Aaron, and N. Stillman, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Corrosion inhibitors—nitrite salts of secondary amines. 2,419,327; Apr. 22.
- Wachter, Aaron, and N. Stillman, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Corrosion-inhibitors-nitrite salts of primary amines. 2,432,839; Dec. 16.
- Wachter, Aaron, and N. Stillman, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Corrosion-inhibitors-nitrite salts of tertiary amines. 2,432,840; Dec. 16.
- Wachter, Joseph J.: *See—*  
Auxier, Robert W., Wachter, and Schuman.



- Wachter, Lester W.: *See*—  
Anthony, William C., and Wachter.  
Johnson, Vernon R., and Wachter.
- Wachter, Lester W., and A. Kimber, assignors to Anthony Company, Streator, Ill. Welder handle. 2,422,812; June 24.
- Wachtman, George S., Harrisburg, Pa. Piezo crystal unit assembly. 2,418,491; Apr. 8.
- Wacker, George W., assignor to Clearing Machine Corporation, Chicago, Ill. Dispensing package of material to be molded. 2,414,781; Jan. 21.
- Wacker, George W., assignor to Clearing Machine Corporation, Chicago, Ill. Method for heating and packaging thermoplastic molding material. 2,423,915; July 15.
- Wacker, George W., Cincinnati, Ohio, assignor to Clearing Machine Corporation, Chicago, Ill. Machine for molding plastic materials. 2,423,914; July 15.
- Wackher, Richard C.: *See*—  
Pines, Herman, and Wackher.
- Waddell, Morton, Brookhaven, N. Y. Combination lip and handle assembly for containers. 2,416,600; Feb. 25.
- Waddell, William M., West Vancouver, British Columbia, Canada. Rolling door. 2,425,497; Aug. 12.
- Waddington, Eric S., London, England, assignor to The Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electric welding head. 2,415,052; Jan. 28.
- Wade, John B., Hamilton, Ohio, assignor, by mesne assignments, to Food Machinery Corporation. Centrifugal pump. 2,416,031; Feb. 18.
- Wade, Worth, New York, N. Y., assignor to American Viscose Corporation, Wilmington, Del. Producing a textile product. 2,417,453; Mar. 18.
- Wadley, Edward F., and J. T. Horeczy, Baytown, Tex., assignors to Standard Oil Development Company. Conditioning sulphuric acid sludge. 2,425,584; Aug. 12.
- Wadsworth, Donald E., Miami, Fla. Sprinkler unit. 2,421,103; May 27.
- Wadsworth, Donald E., Miami, Fla. Swivel joint for sprinklers. 2,421,104; May 27.
- Wadsworth Electric Manufacturing Co., Inc., The, assignee: *See*—  
Landmeier, Edwin W.
- Wadsworth, George E., Erlanger, Ky. Dead-end clamp. 2,429,705; Oct. 28.
- Waetzman, Harry, Philadelphia, Pa. Detachable mattress and spring cover. 2,417,333; Mar. 11.
- Wagner, Blakely A., Los Angeles, Calif. Cosmetic applicator. 2,426,288; Aug. 26.
- Wagner, Cary R.: *See*—  
Boyd, James H., Jr., and Wagner.
- Wagner, Cary R., Utica, Ohio, assignor to Phillips Petroleum Company. Separation of butenes, n-butane, C-3 and lighter hydrocarbons by extractive distillation. 2,415,921; Feb. 18.
- Wagner, Cary R., Utica, Ohio, assignor to Phillips Petroleum Company. Drilling fluids and use. 2,425,768; Aug. 19.
- Wagner, Cary R., Utica, Ohio, assignor to Phillips Petroleum Company. Production of alkenylfurans. 2,431,216; Nov. 18.
- Wagner, Charley L.: *See*—  
Farrell, Robert A., and Wagner.
- Wagner, E. R., Manufacturing Company, assignee: *See*—  
Thiele, Berthold R.
- Wagner Electric Corporation, assignee: *See*—  
Dick, Burns.  
Doelling, George L.  
Schell, Steve.  
Shartle, Ralph W.
- Wagner, Frank J., assignor of one-half to G. M. Bierman, Franklin Square, N. Y. Roller skate wheel. 2,432,105; Dec. 9.
- Wagner, Fred, Buffalo, N. Y. Necktie. 2,423,133; July 1.
- Wagner, Frederick P., Normandy, assignor to Bauer Brothers Shoe Company, St. Louis, Mo. Shank stiffener. 2,425,707; Aug. 12.
- Wagner, George F., East Orange, N. J., assignor to Brink's, Incorporated, Chicago, Ill. Carrying and disbursing case. 2,415,664; Feb. 11.
- Wagner, Gustave H.: *See*—  
Wagner, Harold A. and G. H.
- Wagner, Harold A. and G. H., Portland, Ore. Portable crane. 2,414,573; Jan. 21.
- Wagner, Harold H., Cincinnati, Ohio, and E. G. Magnus, assignors to The W. J. Fitzpatrick Company, Chicago, Ill. Communiting machine. 2,417,184; Mar. 11.
- Wagner, Julius A.: *See*—  
Adams, Robert T., and Wagner.
- Wagner, Julius A., Cleveland Heights, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y. Material distributing apparatus. 2,415,543; Feb. 11.
- Wagner, Leland B., assignor to Penn Electric Switch Co., Goshen, Ind. Control structure. 2,425,447; Aug. 12.
- Wagner, Leland B., assignor to Penn Electric Switch Co., Goshen, Ind. Limit switch. 2,427,317; Sept. 9.
- Wagner, Robert L., Niagara Falls, N. Y., assignor to Haynes Stellite Company. Method and apparatus for applying metal coatings. 2,431,781; Dec. 2.
- Wagner, Wiltz W., New Orleans, La. Cooking or processing apparatus. 2,428,481; Oct. 7.
- Wagoner, Harvey E., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Conditioning treatment of magnesium for electroplating. 2,419,190; Apr. 15.
- Wagstaff, George, Long Eaton, England. Spring contacts for electric plug couplings. 2,424,867; July 29.
- Wahl Brothers, assignee: *See*—  
Wahl, Nicholas A.
- Wahl, John C., assignor to Eversharp, Inc., Chicago, Ill. Mechanical ink pencil. 2,427,033; Sept. 9.
- Wahl, John C., Chicago, Ill., assignor to Eversharp, Inc., Chicago, Ill. Mechanical ink pencil. 2,427,243; Sept. 9.
- Wahl, Nicholas A., assignor to Wahl Brothers, New York, N. Y. Tape for separable fasteners. 2,432,841; Dec. 16.
- Wahlberg, Hortense, Miami, Fla. Combination garment. 2,419,513; Apr. 22.
- Wahle, Adolph, assignor of one-half to W. H. Martin, Davenport, Iowa. Pump. 2,419,924; Apr. 29.
- Wahle, Adolph, assignor of one-half to W. H. Martin, Davenport, Iowa. Compound rotary pump. 2,426,539; Aug. 26.
- Wahlstrom, Charles G., Redwood City, Calif. Saw sharpener. 2,427,754; Sept. 23.
- Wahlstrom, Charles G., Redwood City, Calif. Saw-tooth setting device. 2,428,439; Oct. 7.
- Wahner, Hubert: *See*—  
Dornier, Claude, Stauffer, Wöhner, and Bottling.
- Wahr, William, New York, N. Y. Race handicapping device. 2,417,719; Mar. 18.
- Wainer, Eugene, assignor to The Titanium Alloy Manufacturing Company, Niagara Falls, N. Y. Ceramic dielectric composition. 2,420,692; May 20.
- Wainer, Eugene, Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Coordinated zirconyl and hafnium compounds and their production. 2,424,262; July 22.
- Walner, Eugene, Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Ceramic composition for aircraft spark plugs. 2,427,034; Sept. 9.
- Wainio, Albert W.: *See*—  
Gustin, Daniel S., and Wainio.
- Wainio, Albert W., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Method and apparatus for introducing mercury into a discharge device by means of a capillary tube and a by-pass connection. 2,433,177; Dec. 23.
- Wainwright, Carlyle H., assignor to The Bentley Engineering Company Limited, Leicester, England. Yarn-tension of take-up device, primarily for knitting machines. 2,423,630; July 8.
- Wainwright, John E., assignor to Coventry Gauge & Tool Company Limited, Coventry, England. Thread grinding wheel. 2,426,290; Aug. 26.
- Wainwright, Nelson, and A. J. Mummert, assignors to McQuay-Norris Manufacturing Company, St. Louis, Mo. Piston ring. 2,427,333; Sept. 9.
- Waite, Amory H., Jr., Long Branch, N. J. Antenna. 2,417,848; Mar. 25.
- Waite, Charles C., Roselle Park, and P. F. Bender, Jersey City, N. J., and L. Arnett, New York, N. Y., assignors, by mesne assignments, to Stewart Products Corporation. Liquid dispensing apparatus. 2,427,429; Sept. 16.
- Waite, Virgil H., Berea, and H. B. Allport, Cleveland, assignors to The McGean Chemical Company, Cleveland, Ohio. Vitreous enamel opacifier. 2,423,212; July 1.
- Wakefield, C. C., & Company Limited, assignee: *See*—  
Evans, Elliott A., and Elliott.
- Wakley, Thomas L., assignor to Ronald Trist & Co. Limited, Slough, England. Magnetic device. 2,424,130; July 15.
- Walch, Jacob S., Stockton, Calif. Carrying scraper. 2,422,813; June 24.
- Wald, Quentin R., Stratford, assignor to United Aircraft Corporation, East Hartford, Conn. Rotor blade. 2,426,130; Aug. 19.
- Waldeck, Christ L., Cleveland Heights, and J. A. Dever, Bay Village, assignors to Shuler Company, Cleveland, Ohio. Vehicle wheel. 2,427,430; Sept. 16.
- Walden, Charles O.: *See*—  
Phelan, Arthur J., Walden, and McGaffey.
- Walden, Frank H., Philadelphia, Pa. Pipe cutting device. 2,432,703; Dec. 16.
- Waldes, Harry K., Jackson Heights, assignor to Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Retaining ring. 2,420,921; May 20.
- Waldes Koh-I-Noor, Inc., assignee: *See*—  
Feitl, Rudolf.  
Schaaff, Louis W.  
Schaaff, Louis W., Heimann, and Wurzel.  
Waldes, Harry K.
- Waldie, George A., Marengo, Ohio, assignor to H-P-M Development Corporation, Wilmington, Del. Valve for hydraulic circuits. 2,416,722; Mar. 4.
- Waldie, George A., Edison, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Remote control for hydraulic systems. 2,416,860; Mar. 4.
- Waldie, George A., Edison, Ohio, assignor to The Hydraulic Development Corporation, Inc., Wilmington, Del. Remote control. 2,418,532; Apr. 8.



- Waldie, George A., Edison, and J. A. Muller, Dayton, Ohio, assignors to The Hydraulic Development Corporation, Inc., Wilmington, Del. Control system for hydraulic presses. 2,415,053; Jan. 28.
- Waldie, James: *See—*  
Kurtz, Jacob, Waldie, and Spina.
- Waldie, William A., assignor to New Wrinkle, Inc., Dayton, Ohio. Modifying the texture of coating compositions. 2,414,006; Jan. 7.
- Waldie, William A., Oakwood, assignor to Chemical Developments Corporation, Dayton, Ohio. Crystallizing coating composition. 2,415,775; Feb. 11.
- Waldie, William A., Oakwood, Ohio, assignor to New Wrinkle, Inc., Wilmington, Del. Blown wrinkle varnish. 2,419,238; Apr. 22.
- Waldman, Nathan, Salem, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Making shoes with platforms and covers. 2,425,906; Aug. 19.
- Waldo, Charles L., assignee, et al.: *See—*  
Krebs, Daniel D.
- Waldo, James C., Toledo, Ohio. Dispenser for sticklike articles. 2,428,132; Sept. 30.
- Waldorf, Adrian, Washington, D. C. Perspective drafting device. 2,419,610; Apr. 29.
- Waldorf, Leon M., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Film holder. 2,431,217; Nov. 18.
- Waldorf Paper Products Company, assignee: *See—*  
Dunning, Robert M.  
Guyer, Reynolds.
- Waldron, Frederic B., Prescott, assignor to Pilkington Brothers Limited, Liverpool, England. Apparatus for simultaneously polishing both faces of a travelling strip of glass. 2,419,926; Apr. 29.
- Waldron, Frederic B., Prescott, assignor to Pilkington Brothers Limited, Liverpool, England. Method and apparatus for polishing flat glass. 2,420,989; May 20.
- Waldron, Frederic B., Prescott, and J. H. Griffin, St. Helens, assignors to Pilkington Brothers Limited, Liverpool, England. Apparatus for simultaneously polishing both faces of a travelling strip of glass. 2,419,925; Apr. 29.
- Waldron, John, Corporation, assignee: *See—*  
Case, Lynn B.  
Dalton, George A.
- Waldron, John W., Philadelphia, Pa., assignor, by mesne assignments, to Allied Chemical & Dye Corporation. Recovery of aromatic hydrocarbons. 2,419,521; Apr. 22.
- Waldron, Richard C., Clifton, and T. L. Hall, Upper Montclair, assignors to The Okonite Company, Passaic, N. J. Reversed lay cable. 2,430,378; Nov. 4.
- Wales, George F., Kenmore, N. Y. Method of and apparatus for punching by transfer means. 2,419,862; Apr. 29.
- Wales, George F., Kenmore, N. Y. Sheet metal compartment with self supports and manufacture. 2,423,863; July 15.
- Wales, Nathaniel B., Jr., New York, N. Y. Control mechanism for helicopters having coaxial counterrotating rotors. 2,427,936; Sept. 23.
- Wales, Nathaniel B., assignor, by mesne assignments, to Industrial Patent Corporation, New York, N. Y. Automatic hydraulic clothes washing machine. 2,417,998; Mar. 25.
- Wales, Nathaniel B., assignor, by mesne assignments, to Industrial Patent Corporation, New York, N. Y. Automatic toaster. 2,429,736; Oct. 28.
- Walk, Udell C., U. S. Navy, Carmel, Calif. Signaling device. 2,415,118; Feb. 4.
- Walker, Alec H. B., London, England, assignor, by mesne assignments, to The Union Switch and Signal Company, Swissvale, Pa. Apparatus for frequency multiplication of alternating electric currents. 2,420,213; May 6.
- Walker, Brooks: *See—*  
Lindberg, John E., Jr., and Walker.
- Walker, Brooks, Piedmont, Calif. Liquid bomb. 2,416,362; Feb. 25.
- Walker, Brooks, Piedmont, Calif. Apparatus for exploding land mines. 2,425,357; Aug. 12.
- Walker, Brooks, Piedmont, Calif. Air cooled gun. 2,427,374; Sept. 16.
- Walker, Brooks, Piedmont, Calif. Track and drive from dual tires. 2,433,409; Dec. 30.
- Walker Brothers, assignee: *See—*  
Hudson, James W.
- Walker, Charles G., College Park, Md., and H. S. Gustafson, Chicago, Ill., assignors to Otto Buehner, Salt Lake City, Utah. Bathtub construction. 2,427,375; Sept. 16.
- Walker, Charles M., Newtonville, and J. R. Eisan, Natick, assignors to Raytheon Manufacturing Company, Newton, Mass. Tube construction. 2,433,410; Dec. 30.
- Walker, Curtis: *See—*  
Turchan, Manuel, and Walker.
- Walker, Doreen, executrix: *See—*  
Cork, Edward C., and Blumlein.
- Walker, Frederic L., Lake Charles, La. Quick releasing nipple chuck for pipe threading machines. 2,429,038; Oct. 14.
- Walker, George L., Jersey City, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Gas torch. 2,418,208; Apr. 1.
- Walker, George L., Jersey City, N. J., assignor to Air Reduction Company, Incorporated. Gas torch. 2,418,533; Apr. 8.
- Walker, George N.: *See—*  
Parkin, Fremont P., and Walker.
- Walker, Godfrey B., Old Greenwich, assignor to American Cyanamid Company, New York, N. Y. Combined gravity classification and screening of ore. 2,429,436; Oct. 21.
- Walker, Isaac J., R. E. Wham, and C. S. Turbeville, Gainesville, Tex. Fishing lure. 2,425,272; Aug. 5.
- Walker, J. Willard: *See—*  
Wiseman, Arthur W., and Walker.
- Walker, James D., Aurora, Ill., assignor to The American Well Works. Upflow water-treating apparatus. 2,427,886; Sept. 23.
- Walker, Jay F., and C. O. Glasgow, Tulsa, Okla. Methods of and apparatus for treating oil well streams. 2,420,115; May 6.
- Walker, Joseph F.: *See—*  
Hinegardner, Wilbie S., and Walker.
- Walker, Joseph F., Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of N,N'-methylene bis hydantoins. 2,417,999; Mar. 25.
- Walker, Joseph F., Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing methylene derivatives of hydantoin. 2,418,000; Mar. 25.
- Walker, Joseph F., Lewiston, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Sulfur-formaldehyde resins. 2,429,859; Oct. 28.
- Walker Manufacturing Company of Wisconsin, assignee: *See—*  
McCann, Charles S.  
Ward, Melvin G.
- Walker, Matt, Seattle, Wash. Exercising device. 2,425,971; Aug. 19.
- Walker, Maurice J., U. S. Army. Toothbrush. 2,429,437; Oct. 21.
- Walker, Myrl M., Auburn, N. Y., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe sole sewing machine. 2,418,784; Mar. 4.
- Walker, Nevilles E., Portland, Ore. Manipulatable toy airplane. 2,416,805; Mar. 4.
- Walker, Ralph E., Silverdale, Wash. Fuse puller. 2,430,544; Nov. 11.
- Walker, Theron H., Los Angeles, Calif. Vegetable slicer. 2,414,075; Jan. 7.
- Walker, William H., Harvey, Ill. Friction drive control. 2,423,916; July 15.
- Walker, Willis F., Seisholtzville, Pa. Third rail support. 2,422,509; June 17.
- Wall, Alexander C.: *See—*  
Brady, Robert L., and Wall.
- Wall, Alexander C., Indianapolis, Ind., assignor to General Electric Company. Traffic recorder. 2,419,099; Apr. 15.
- Wall, Alexander C., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Magneto-distributor. 2,430,379; Nov. 4.
- Wall, William C., Ridgewood, and G. A. Wilkens, Ridgefield, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Blast cleaning. 2,426,072; Aug. 19.
- Wallace, Burgess P., Brooklyn, N. Y. Foundry facings and making same. 2,430,655; Nov. 11.
- Wallace, Burgess P., New York, N. Y. Synthetic foundry sands. 2,432,702; Dec. 16.
- Wallace, Charles F., Westfield, assignor to Wallace & Tiernan Products, Inc., Belleville, N. J. Electrode and cell. 2,415,067; Jan. 28.
- Wallace, Charles F., Westfield, assignor to Wallace & Tiernan Products, Inc., Belleville, N. J. Apparatus for establishing a vacuum in manometer-type instruments. 2,418,379; Apr. 1.
- Wallace, Charles F., Westfield, assignor to Wallace & Tiernan Products, Inc., Belleville, N. J. Mechanical movement. 2,431,098; Nov. 18.
- Wallace, Charles L., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Piston device. 2,426,073; Aug. 19.
- Wallace, Claude W., Columbia, Miss. Log-gripping and centering sawmill dog assembly. 2,428,185; Sept. 30.
- Wallace, Edward E., Cleveland Heights, Ohio. Airplane. 2,415,615; Feb. 11.
- Wallace, Edward E., Cleveland Heights, Ohio. Tire and mounting therefor. 2,415,616; Feb. 11.
- Wallace, Edward E., Cleveland Heights, Ohio. Retractable landing gear for amphibian airplanes. 2,430,898; Nov. 18.
- Wallace, Everett, New York, N. Y. Pivoted bender with adjustable stons. 2,430,899; Nov. 18.
- Wallace, Frank B., Phoenix, Ariz. Self-destruction fuze. 2,425,769; Aug. 19.
- Wallace, Frank C., North Hollywood, Calif. Switch. 2,418,564; Apr. 8.
- Wallace, James M.: *See—*  
Rawlins, Herbert L., and Wallace.
- Wallace, James M., Braddock, and H. J. Crabbs, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit controller. 2,432,955; Dec. 16.
- Wallace, John G., Toronto, Ontario, Canada. Locking device. 2,420,272; May 6.
- Wallace, Marvin R., assignee, et al.: *See—*  
Nichols, Okey E.



- Wallace, Robert H., Lakewood, and A. W. Knudsen, Rocky River, assignors to The Midland Steel Products Company, Cleveland, Ohio. Making cartridge cases. 2,426,289; Aug. 26.
- Wallace, Roger W.: *See*—  
Glennon, James B., Wallace, and Woodward.
- Wallace, Stanley, Chicago, Ill. Electrical binding post. 2,430,091; Nov. 4.
- Wallace, Theodore B., Plymouth Meeting, assignor to Smith, Kline & French Laboratories, Philadelphia, Pa. Analgesic composition. 2,427,887; Sept. 23.
- Wallace & Tiernan Co., Inc., assignee: *See*—  
Booth, George M.  
Wallace, Charles F.
- Wallace & Tiernan Products, Inc., assignee: *See*—  
Ludwig, Bernard J., and Schmelkes.  
Marks, Henry C.  
Wallace, Charles F.
- Wallace, Wilfred N.: *See*—  
Wassell, John B., and Wallace.
- Wallach, Robert S.: *See*—  
Bloomfield, Samuel, and Wallach.
- Wallach, Roger, deceased, late of Briarcliff Manor, N. Y., by George S. Hills, executor, New Rochelle, N. Y., assignor, by mesne assignments, to American Viscose Corp., Wilmington, Del. Treating jute fibers. 2,416,272; Feb. 18.
- Wallberg, Ivor O., Sacramento, Calif. Cleaning apparatus. 2,431,354; Nov. 25.
- Walldén, Sven J.: *See*—  
Kalling, Bo M. S., Walldén, and Tanner.
- Walle, Ludwig S., Lansdowne, Pa., assignor to General Electric Company. Electromagnetic device. 2,425,770; Aug. 19.
- Walle, Ludwig S., Lansdowne, Pa., assignor to General Electric Company. Circuit breaker. 2,428,254; Sept. 30.
- Waller, Carl R., assignor to De Laval Steam Turbine Company, Trenton, N. J. Reversible gas turbine. 2,421,445; June 3.
- Waller, Edla A., executrix: *See*—  
Waller, John A.
- Waller, John A., deceased, Beverly Hills, Calif., E. A. Waller, executrix. Lock construction for door structures and the like. 2,428,401; Oct. 7.
- Wallerstein Company, Inc., assignee: *See*—  
Wallerstein, Leo.
- Wallerstein, James S.: *See*—  
Farber, Eduard, and Wallerstein.
- Wallerstein, Leo, assignor to Wallerstein Company, Inc., New York, N. Y. Bentonite and proteolytic enzyme treatment of beer. 2,433,411; Dec. 30.
- Walley, Omar C., Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system. 2,420,922; May 20.
- Wallin, Fred E., assignor to National Slug Rejectors, Inc., St. Louis, Mo. Coin selector. 2,422,867; June 24.
- Wallis, Albert E., and D. H. West, Clydach, County of Glamorgan, Wales, assignors to The International Nickel Company, Inc., New York, N. Y. Removal of nickel from cobaltic hydroxide precipitates containing the same. 2,415,665; Feb. 11.
- Wallis, Charles E., Wauwatosa, Wis., and J. J. Shanley, Grosse Pointe, Mich., assignors to National Steel Corporation. Structural nailing member. 2,421,446; June 3.
- Wallis, John S., Darien, and J. W. Throckmorton, Wilton, Conn., assignors to Petro-Chem Process Company, Incorporated, New York, N. Y. Waste heat economizer. 2,418,273; Feb. 18.
- Walmesley, Robert A., Howwood, Scotland, assignor to Imperial Chemical Industries Limited. Recovery of glycerine from fermented liquors. 2,422,453; June 17.
- Walsh, Allen A., West Englewood, N. J., assignor to Radio Corporation of America. Shock mount for collapsible antennas. 2,419,611; Apr. 29.
- Walsh, Edward G., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Solderless connection. 2,421,645; May 27.
- Walsh, Edward J.: *See*—  
Glass, Myron S., Ronci, and Walsh.
- Walsh, Patrick J., New York, N. Y. Lamp. 2,426,907; Sept. 2.
- Walsh, Philip J., San Francisco, Calif. Converter system. 2,417,622; Mar. 18.
- Walsh, Thaddeus A.: *See*—  
MacLagan, James A., and Walsh.
- Walsh, Thomas E., Cohoes, assignor to Cohoes Envelope Company, Inc., Cohoes, N. Y. Locking envelope or the like. 2,426,908; Sept. 2.
- Walsh, William E.: *See*—  
Anderson, Roxford O., and Walsh.  
Mackmann, Arthur, and Walsh.
- Walt, Albert J., De Kalb, assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Accordion shift mechanism. 2,432,384; Dec. 9.
- Walt, Albert J., De Kalb, assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Accordion shift mechanism. 2,433,310; Dec. 23.
- Walt Disney Productions, assignee: *See*—  
Jones, Richard.
- Walter, Gustave, Jersey City, N. J. Outboard engine cooling device. 2,415,154; Feb. 4.
- Walter, Harold J., Urbridge, Mass., and P. R. Rose, East Orange, N. J. Method and apparatus for conditioning warp threads, yarns, and the like. 2,421,135; May 27.
- Walker, John F., Chicago, and E. H. McGrew, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Isomerization of normally liquid saturated hydrocarbons. 2,415,315; Feb. 4.
- Walker, Jules G.: *See*—  
Butterworth, Harry W., Jr., S. and M. Cohn, and Walker.
- Walter, William H., Lima, Ohio. Filling for and treatment of fractured masonry walls. 2,417,026; Mar. 4.
- Walters, Arthur B., Denver, Colo. Sealing cap for containers. 2,430,967; Nov. 18.
- Walters, Ernest A., Detroit, Mich. Cigarette holder. 2,422,868; June 24.
- Walters, Frank J., and H. B. Nelson, U. S. Navy. Roller holder for pontoons. 2,417,849; Mar. 25.
- Walters, Frederick J.: *See*—  
Smith, Wilfred S., and Walters.
- Walters, George, New York, N. Y. Fly ball. 2,425,406; Aug. 12.
- Walters, Maxwell I., Rochester, N. Y. Coat hanger. 2,420,116; May 6.
- Walters, Tom, Tampa, Fla. Telescopic valve operating extension. 2,431,527; Nov. 25.
- Walters, William L., assignee: *See*—  
Hanson, Walter V.
- Walther, George W.: *See*—  
Bradley, Robert O., and Walther.
- Walther, George, and E. L. Miller, assignors to The Dayton Steel Foundry Company, Dayton, Ohio. Fifth wheel coupling means. 2,428,743; July 8.
- Waltman, Edwin G., Steubenville, Ohio, assignor to National Steel Corporation. Producing sheets and the products obtained. 2,422,323; June 17.
- Walton, Eric, Orford, and M. B. Green, Crouch Hill, England, assignors to Burroughs Wellcome & Co. (U. S. A.) Incorporated, New York, N. Y. Production of 3-aryl-1,5-dibromopentane-8-carboxylic acid. 2,421,729; June 3.
- Walton, George M., Shaker Heights, and H. W. Matlock, Garfield Heights, assignors to Air-Maze Corporation, Cleveland, Ohio. Liquid filter valve structure. 2,431,782; Dec. 2.
- Walton, Ralph W., Cleveland, Ohio. Pier construction. 2,426,477; Aug. 26.
- Walton, Sylvan B., Lexington, Ky. Dew point recording apparatus. 2,415,776; Feb. 11.
- Walton, William T., C. A. Coffey, and O. E. Knapp, Chicago, Ill., assignors to The Sherwin-Williams Company, Cleveland, Ohio. Dehydration of castor oil. 2,429,380; Oct. 21.
- Walz, Claude W., Arondale, Colo., and C. T. Rasmussen, Molina, and R. D. Griff, Rock Island, assignors to Deere & Company, Moline, Ill. Beet loader. 2,432,956; Dec. 16.
- Walz, Claude W., Arondale, Colo., and C. T. Rasmussen and H. F. Clausen, assignors to Deere & Company, Moline, Ill. Beet harvester with ropper and top conveyor. 2,433,799; Dec. 30.
- Wandel, Bronislaw, Boston, Mass. Instrument for applying ligatures to blood vessels. 2,427,169; Sept. 9.
- Wandel, George H., Riverside, and T. H. Rider, Hinsdale, Ill., assignors, by mesne assignments, to Lever Brothers Company, Cambridge, Mass. Finishing plastic filaments and products made therefrom. 2,426,328; Aug. 26.
- Wandrey, Clarence W., Elmwood Park, Ill., assignor to Zenith Radio Corporation. Operating mechanisms. 2,423,275; July 1.
- Wankel, Bernhard, Jr., and H. Herzberg, New York, N. Y. Window lock. 2,415,922; Feb. 18.
- Wannamaker, William H., Jr., Flourtown, assignor to The Brown Instrument Company, Philadelphia, Pa. Lens type radiation pyrometer. 2,422,273; June 17.
- Wantz, June G., Knob Noster, Mo. Full floating piston. 2,424,868; July 29.
- Wappler, Frederick C., deceased, New York, N. Y.; Mary D. Wappler, executrix, assignor to American Cystoscope Makers, Inc. Tubular bodies such as radium seeds. 2,429,436; Oct. 21.
- Wappler, Mary D., executrix: *See*—  
Wappler, Frederick C.
- War, United States of America, as represented by the Secretary of, assignee: *See*—  
Anderson, Nelson and Hall.  
Arenberg, David L.  
Baker, Morton H., and Blackburn.  
Biggar, Allan M.  
Black, Eric A.  
Brewster, Leslie A.  
Chevigny, Paul G.  
Coleman, Joseph E.  
Coomes, Edward A.  
Dittmar, Frank H.  
Derwiler, Harold P.  
Dorne, Arthur.  
Fischbach, Adolph, and Friedman.  
Forbes, Gordon D., and Shapiro.  
Göhr, Marcel J. E., and Zahl.  
Goldfischer, Fred.  
Grimm, Henry H.  
Guarrera, John J.



- War, United States of America, as represented by the Secretary of, assignee: *See*—Continued.
- Kamm, George N.  
 Kelly, William I.  
 Kurtz, Allen W.  
 Lee, Norman.  
 Lochhead, John L.  
 Middlemiss, Joseph E.  
 Moore, James R.  
 Norgren, Eric K.  
 Patton, Benjamin B.  
 Pereslegin, Anatol.  
 Persson, Per O.  
 Prichard, Arthur C.  
 Prichard, Arthur C., and Myers.  
 Rabinow, Jacob.  
 Rector, Jacob L.  
 Redheffer, Raymond M.  
 Rinkenbach, William H., and Allison.  
 Rothman, Max I., and Neiman.  
 Schiff, Sigmund.  
 Simpson, Clarence E.  
 Smith, Harold J.  
 Smith, Henry R.  
 Stodola, Edwin K.  
 Uhl, Edward G., and Skinner.  
 Ulett, George A., Jr., and Claussen.  
 Zavarella, Arthur.
- Waranch, Theodore M., assignor to The Comfy Manufacturing Company, Baltimore, Md. Slip cover. 2,416,806; Mar. 4.
- Ward, Ashley F., Jr., Cincinnati, Ohio. Lighter. 2,432,265; Dec. 9.
- Ward Baking Company, assignee: *See*—  
 Russ, Walter R., Hoffman, Schweitzer, and Dalby.
- Ward, Delbert J., Sherman Oaks, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Tachometer calibrator. 2,425,289; Aug. 5.
- Ward, Edgar T., Oak Park, Ill. Method and apparatus for producing banded cord lengths. 2,429,537; Oct. 21.
- Ward, George C.: *See*—  
 Seymour, George W., and Ward.
- Ward, John B., assignor to Corning Glass Works, Corning, N. Y. Vessel handle assembly. 2,422,510; June 17.
- Ward, Lawrence T.: *See*—  
 Kochner, William B., and Ward.
- Ward Leonard Electric Company, assignee: *See*—  
 Cohen, Arthur M.  
 Logan, Frank G.  
 Stapleton, George M.
- Ward, Maurice L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Shrinkproofing wool. 2,414,704; Jan. 21.
- Ward, Melvin G., assignor to Walker Manufacturing Company of Wisconsin, Racine, Wis. Lifting mechanism. 2,433,537; Dec. 30.
- Ward, Vincent S., and G. K. Hurlbut, assignors, by mesne assignments, to B M C Manufacturing Corporation, Binghamton, N. Y. Wrench with toggle actuated jaw. 2,428,949; Oct. 14.
- Ward, Willard H., St. Johnsbury, Vt., assignor to Fairbanks, Morse & Co., Chicago, Ill. Weighing scale. 2,415,570; Feb. 11.
- Ward, William A., New Cumberland, W. Va., assignor to National Steel Corporation. Apparatus for handling and separating sheet-like material. 2,417,145; Mar. 11.
- Warden, Clyde A., assignor to Boeing Aircraft Company, Seattle, Wash. Mandrel and method for flattening metal tubes. 2,431,851; Dec. 2.
- Ware, Arthur J. V., Memphis, Tenn. Seed cleaner. 2,433,178; Dec. 23.
- Ware, David H., Schenectady, N. Y., assignor to General Electric Company. Laminated rotor for dynamoelectric machines. 2,419,863; Apr. 29.
- Ware, David H., Schenectady, N. Y., assignor to General Electric Company. Bearing construction. 2,421,668; June 3.
- Ware, Marsden, Huntington Woods, assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 2,417,334; Mar. 11.
- Ware, Richard N., Jr., and R. Cannon, Tallulah, La., assignors to Chicago Mill and Lumber Company, Chicago, Ill. Method and apparatus for making paper-covered veneer. 2,425,660; Aug. 12.
- Ware, Robert R., Jr., assignor to Chicago Roller Skate Company, Chicago, Ill. Roller skate reinforcing plate. 2,424,733; July 29.
- Ware, Robert R., Jr., assignor to Chicago Roller Skate Company, Chicago, Ill. Wheel structure. 2,424,784; July 29.
- Waring, Charles E.: *See*—  
 Teeter, Wilford H., and Waring.
- Waring, Charles E., and F. W. Gerard, Oakwood, assignors to General Motors Corporation, Dayton, Ohio. Machine gun package. 2,428,861; Oct. 14.
- Waring, Frank E., Cheshire, England. Apparatus for cutting sheet metal and the like. 2,419,382; Apr. 22.
- Warman, Horace, assignor to Pictorial Machinery Limited, London, England. Apparatus for projection viewing and printing from transparencies. 2,432,704; Dec. 16.
- Warmisham, Arthur, assignor to Taylor, Taylor & Hobson Limited, Leicester, England. Optical objective. 2,430,150; Nov. 4.
- Warmisham, Arthur, and C. G. Wynne, Leicester, England. Optical objective. 2,416,032; Feb. 18.
- Warmisham, Arthur, and C. G. Wynne, Leicester, England. Optical objective. 2,416,033; Feb. 18.
- Warmisham, Arthur, and C. G. Wynne, Leicester, England. Optical objective. 2,416,969; Mar. 4.
- Warmisham, Arthur, and C. G. Wynne, Leicester, England. Optical objective. 2,418,001; Mar. 25.
- Warmisham, Arthur, and C. G. Wynne, Leicester, England. Optical objective. 2,419,803; Apr. 29.
- Warmisham, Arthur, and C. G. Wynne, Leicester, England. Optical objective. 2,419,804; Apr. 29.
- Warne, Frederick C., assignor to Farm Tools, Inc., Mansfield, Ohio. Tractor and implement connecting means. 2,413,807; Jan. 7.
- Warner Aircraft Corporation, The, assignee: *See*—  
 Majneri, Ludwig A.  
 Tamm, Robert E., and Martens.
- Warner, Arthur J., and A. A. New, London, W. C. 2, England, assignors to International Standard Electric Corporation, New York, N. Y. Plasticization of polymerized styrene. 2,414,497; Jan. 21.
- Warner, Arthur J., South Orange, and A. Baldwin, assignors to Federal Telephone and Radio Corporation, Newark, N. J. Cable joint and method of forming the same. 2,414,498; Jan. 21.
- Warner, Arthur J., South Orange, and W. D. Crater, Jr., New Brunswick, N. J., assignors to Federal Telephone and Radio Corporation, New York, N. Y. Plasticized ethyl cellulose and making the same. 2,421,046; May 27.
- Warner, Arthur R., Walton-on-Thames, England. Gauging device. 2,433,585; Dec. 30.
- Warner Bros. Company, assignee: *See*—  
 Warner, Stuart T.
- Warner Bros. Pictures, Inc., assignee: *See*—  
 Biddle, Frank E.  
 Tondreau, Albert W.
- Warner, Chester E., Oak Park, assignor to United States Gypsum Company, Chicago, Ill. Self-locking fastener. 2,429,113; Oct. 14.
- Warner, Donald F., Swampscott, Mass., assignor to General Electric Company. Gas turbine. 2,427,244; Sept. 9.
- Warner, Donald F., Swampscott, Mass., assignor to General Electric Company. Power plant. 2,432,358; Dec. 9.
- Warner, Douglas K., Sarasota, Fla. Inlet air opening of jet propelled planes. 2,418,380; Apr. 1.
- Warner Electric Brake Manufacturing Company, assignee: *See*—  
 Born, Frank G.  
 Edgar, Victor R.  
 Oetzel, John G.  
 Yost, Karl M.
- Warner, Harold W., San Diego, Calif. Sperm receptacle for analysis. 2,433,538; Dec. 30.
- Warner, Maurice, Los Angeles, Calif. Cigarette maker. 2,421,669; June 3.
- Warner, Ralph, and H. B. Smalley, Bloomington, Ill. Bottle carrier. 2,430,415; Nov. 4.
- Warner, Samuel W., assignor of one-half to H. Bernstein and one-half to J. Sadowick, Newark, N. J. Implement for welding or the like. 2,429,039; Oct. 14.
- Warner, Stuart T., assignor to Warner Bros. Company, Bridgeport, Conn. Garment. 2,426,959; Sept. 2.
- Warner & Swasey Company, The, assignee: *See*—  
 Bogart, Fred H.  
 Clark, Robert H.  
 Curtis, Myron S., and Schoepe.  
 Ruetschi, Arnold.
- Warner, Sydney E.: *See*—  
 Robb, Charles G., and Warner.
- Warner, William R., & Co., Inc., assignee: *See*—  
 De Luca, Joseph.  
 Gee, Albert H.  
 Thompson, Marvin R.  
 Thompson, Marvin R., Acousti, and Ichniowski.
- Warnick, Alan, Detroit, Mich., assignor, by mesne assignments, to The Budd Company, Philadelphia, Pa. Reactive current indicator. 2,424,131; July 15.
- Warnock, Moses: *See*—  
 Boyd, Harold A., and Warnock.
- Warr, Harold G., Park Ridge, assignor to Poor & Company, Chicago, Ill. Method and implement for resetting rail anchor jaws. 2,430,968; Nov. 18.
- Warren, Charles F., Milwaukee, Wis. Agitating mixing device. 2,422,708; June 24.
- Warren, Charles F., assignor, by mesne assignments, to Hydraulic Impact Tool Company, Milwaukee, Wis. Pumping mechanism. 2,424,595; July 29.
- Warren, Clifford A.: *See*—  
 Higgins, William H. C., and Warren.
- Warren, Donald M., La Fayette, Ind. Packaging for jlg saw puzzles and the like. 2,427,318; Sept. 9.
- Warren Featherbone Co., The, assignee: *See*—  
 Chamberlain, Frederic W., and Klute.
- Warren, Lucille P., Louisville, Ky., assignor of one-fifth to T. L. Warren and one-fifth to L. Stano, Bloomfield, one-fifth to D. De Sessa, Newark, and one-fifth to G. Darche, East Orange, N. J. Floating electrode-wick humidifier. 2,429,112; Oct. 14.
- Warren, Richard F., Jr., Stratford, Conn. Lock nut. 2,421,105; May 27.



- Warren, S. D., Company, assignee: *See*—  
Goff, Lindsay O.
- Warren, Thomas L., assignee, et al.: *See*—  
Warren, Lucille P.
- Warren, William H.: *See*—  
Green, Norval H., and Warren.
- Warren, William H., West Orange, N. J., assignor to Radio Corporation of America. Beam type electron discharge device. 2,427,888; Sept. 23.
- Warrick, Earl L.: *See*—  
McGregor, Rob R., and Warrick.
- Warrick, Edward C.: *See*—  
Cruzan, Harold, and Warrick.
- Warrick, Edward C., Cincinnati, Ohio, and H. Cruzan, Los Angeles, Calif., assignors to United Aircraft Products, Inc., Dayton, Ohio. Direct action shutter control with surge pressure protector. 2,431,003; Nov. 18.
- Warring, Alfred, assignor to Allen Industries, Inc., Detroit, Mich. Electrically heated hooded device. 2,427,113; Sept. 9.
- Warshaw, Howard D., Drexel Hill, Pa. Variable inductance for telemetering system. 2,417,097; Mar. 11.
- Warshaw, Howard D., Drexel Hill, Pa. Magnetic vane type ratiometer. 2,419,612; Apr. 29.
- Warsher, Adolph, Maywood, assignor, by mesne assignments, to M. M. Bilofsky, Newark, N. J. Electromagnet structure. 2,427,826; Sept. 23.
- Warth, Albin H., and E. Lidard, assignors to Crown Cork & Seal Company, Inc., Baltimore, Md. Cap. 2,419,304; Apr. 22.
- Warwick, Edwin M., assignee et al.: *See*—  
Sherman, Bernard H.
- Warwick, Lester D., Denver, Colo. Pole attachment. 2,428,186; Sept. 30.
- Wasco Flashing Co., assignee: *See*—  
Silverman, Maurice G.
- Wasco, John F., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Material lifter. 2,429,969; Oct. 28.
- Waseige, Charles R., Rueil, France; vested in the Attorney General of the United States. Production of compressed air on board aircraft. 2,421,398; June 3.
- Waseige, Charles R., Rueil, France; vested in the Attorney General of the United States. Hydraulic shock absorber. 2,431,716; Dec. 2.
- Waseige, Charles R., Rueil, Seine-et-Oise, France; vested in the Attorney General of the United States. Screw propeller pitch adjusting device. 2,432,550; Dec. 16.
- Wash, George: *See*—  
Cato, Artie Q., Wash, and Shmidl.
- Washburn, Edward M., Merchantville, N. J., assignor to Radio Corporation of America. Mounting piezoelectric crystals. 2,427,825; Sept. 23.
- Washburn, Frederick M., and R. N. Powel, Chicago, Ill., assignor to International Harvester Company. Firing in furnaces or soaking pits. 2,433,075; Dec. 23.
- Washburn, Harold W., assignor to Consolidated Engineering Corporation, Pasadena, Calif. Galvanometer. 2,425,407; Aug. 12.
- Washburn, Harold W., assignor to Consolidated Engineering Corporation, Pasadena, Calif. Evacuating system for mass spectrometry. 2,431,355; Nov. 25.
- Washburn, Harold W., and E. E. Hoskins, assignors to Consolidated Engineering Corporation, Pasadena, Calif. Variable reluctance. 2,423,864; July 15.
- Washburn, Lorenzo S.: *See*—  
Howe, Wallace, and Washburn.
- Washington Iron Works, assignee: *See*—  
Anderson, Peter.  
Hubbard, George H., and Turney.
- Washington, Robert A., Brooklyn, N. Y. Knee protector. 2,431,287; Nov. 18.
- Washington Veneer Company, assignee: *See*—  
McClary, Harold W.
- Wassall, John B., Burbank, and W. N. Wallace, Glendale, Calif., assignors, by mesne assignments, to Lockheed Aircraft Corporation. Aircraft landing gear. 2,418,325; Apr. 1.
- Wasseram, Charles: *See*—  
Smith, Edward L., and Wasseram.
- Wasserman, Lee S., Dayton, Ohio. Airplane tab balancing means. 2,425,358; Aug. 12.
- Wasserman, Rene D., New York, N. Y. Bonding adjacent ends of metallic tubing. 2,424,522; July 22.
- Wassman, August H., St. Louis County, assignor to Carter Carburetor Corporation, St. Louis, Mo. Conditioner for recirculated exhaust gases. 2,419,747; Apr. 29.
- Wassmer, Albert, Geneva, assignor to The firm Pan A.-G., Glarus, Switzerland. Electric contact device. 2,416,970; Mar. 4.
- Wasson, Jones I.: *See*—  
Johnston, Robert K., and Wasson.
- Wasson, Jones I., and J. C. Zimmer, assignors to Standard Oil Development Company. Instrument lubricant. 2,417,281; Mar. 11.
- Waterbury, Carl C., assignor to Diaphragm & Chemical Company, Chicago, Ill. Pessary. 2,422,377; June 17.
- Waterbury, Carl C., assignor to Diaphragm & Chemical Company, Chicago, Ill. Pessary. 2,423,356; July 1.
- Waterbury Farrel Foundry & Machine Company, The, assignee: *See*—  
Wilcox, Richard Lester.
- Waterfall, Wallace: *See*—  
Frederick, Emile, Jr., and Waterfall.
- Waterloo Foundry Company, assignee: *See*—  
Harmon, Cline H., and Fort.
- Waterman, Arthur C., Shreveport, La. Incinerator. 2,427,480; Sept. 16.
- Waterman, Herbert, assignor to Turco Products, Inc., Los Angeles, Calif. Anodic treatment of magnesium and its alloys to form protective coatings thereon. 2,426,254; Aug. 26.
- Waterman, Russell R., Lodi, Calif. Trap controlled feed water system for boilers. 2,426,909; Sept. 2.
- Waterman, Wendell W.: *See*—  
Ohsol, Ernest O., and Waterman.
- Waters, Daniel V.: *See*—  
Pitt, Samuel, and Waters.
- Waters, Harry E., New York, N. Y. Making lined cartons. 2,423,804; July 8.
- Waters, Harry F., New York, N. Y. Packaging method. 2,428,440; Oct. 7.
- Waters, Harry F., New York, N. Y. Lamp failure switch. 2,428,441; Oct. 7.
- Waters, Harry F., New York, N. Y. Cardboard carton and liner therefor. 2,432,052; Dec. 2.
- Waters, Harry F., New York, N. Y. Continuous forming flat-folded lined cartons. 2,432,053; Dec. 2.
- Waters, Harry F., New York, N. Y. Continuously forming fluid-tight packages. 2,432,054; Dec. 2.
- Waters, Harry F., New York, N. Y. Dispensing tube. 2,432,462; Dec. 9.
- Waters, John L., Salem, Oreg., assignor, by mesne assignments, to Xpediter Corporation, Seattle, Wash. Reversing drive mechanism. 2,430,625; Nov. 11.
- Watertown Manufacturing Company, The, assignee: *See*—  
Alves, Alexander L.
- Watkins, Charles H., Cranford, and R. N. Meinert, Westfield, N. J., assignors to Standard Oil Development Company. Alkylation of isoparaffins by mixtures of ethylene and propylene. 2,415,717; Feb. 11.
- Watkins, Charles W.: *See*—  
Loose, Kenneth D., and Watkins.
- Watkins, Frank W., Cleveland, Ohio. Hanger for lighting fixtures. 2,421,447; June 3.
- Watkins, Franklin M.: *See*—  
Herlocker, Robert D., Kleinholz, and Watkins.
- Watkins, Franklin M., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Lubricant. 2,416,807; Mar. 4.
- Watkins, Franklin M., Chicago, Ill., and T. A. Hack, Hammond, Ind., assignors to Sinclair Refining Company, New York, N. Y. Producing hydrocarbon oil concentrates of barium sulfonates. 2,426,540; Aug. 26.
- Watkins, Harmon L., and B. M. Honeycutt, Shreveport, La. Endless pusher conveyor. 2,424,292; July 22.
- Watkins, William W., Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing polyamide photographic emulsions. 2,420,455; May 13.
- Watkins, William W., Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Wet spinning of acrylonitrile polymers. 2,426,719; Sept. 2.
- Watkins, William W., Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Solutions of a synthetic linear polycarbonamide in a phenol containing alkaline material. 2,431,783; Dec. 2.
- Watrobski, Raymond J., Schenectady, N. Y., assignor to General Electric Company. Determining the optical axis of a quartz crystal. 2,423,357; July 1.
- Watrous, Ward W., Jr., East Orange, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Switch. 2,414,622; Jan. 21.
- Watrous, Ward W., Jr., Chatham, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electronic discharge device. 2,415,980; Feb. 18.
- Watrous, Ward W., Jr., Chatham, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Spark gap device. 2,422,324; June 17.
- Watrous, Ward W., Jr., Chatham, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Thermionic cathode construction. 2,424,293; July 22.
- Watson, Carlisle V., Auburn, Maine. Floating house structure. 2,429,381; Oct. 21.
- Watson, Charles C., assignor to Universal Oil Products Company, Chicago, Ill. Production of butadiene. 2,433,800; Dec. 30.
- Watson, Charles E., Bremerton, Wash. Telescoping inside gage. 2,431,717; Dec. 2.
- Watson, Claude W., Scarsdale, assignor to The Texas Company, New York, N. Y. Hydrocarbon conversion process. 2,418,534; Apr. 8.
- Watson, Edward F., Larchmont, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraph system. 2,416,723; Mar. 4.
- Watson, Eleanor T., administratrix: *See*—  
Colton, Roger G., Corput, and Watson.
- Watson, Emily L., San Marino, Calif. Hair curler. 2,429,176; Oct. 14.
- Watson, Ernest A., and R. J. Ifield, assignors to Joseph Lucas Limited, Birmingham, England. Liquid fuel pump governor. 2,429,005; Oct. 14.
- Watson, Frederick J., Old Windsor, and F. Moutran, Slough, assignors to Self-Priming Pump & Engineering Co., Limited, London, England. Apparatus for testing electric coils. 2,421,227; May 27.



- Watson, Jack H., Los Angeles, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Heating element for sheet-metal shaping machines. 2,432,463; Dec. 9.
- Watson, John, assignor to Sweeney Lithograph Company, Inc., Belleville, N. J. Easel for flexible posters. 2,419,181; Apr. 15.
- Watson, John H., and H. E. Anderson, Linwood, Scotland, and E. R. Angel, Beaconsfield, England. Manufacture of string or the like. 2,419,328; Apr. 22.
- Watson, Kermit K., assignor to Ice Cooling Appliance Corporation, Morrison, Ill. Closure device for bottle coolers and the like. 2,416,132; Feb. 18.
- Watson, Paul D., Arlington, Va., assignor to United States of America, as represented by the Secretary of Agriculture. Polylactic acid resins and making them. 2,433,721; Dec. 30.
- Watson, Paul E.: *See*—  
Colton, Roger B., Corput, and Watson.
- Watson, Roger W.: *See*—  
Rogers, Thomas H., Watson, and Starrett.
- Watson, Samuel H.: *See*—  
Haeseler, Leonard W., and Watson.
- Watson-Stillman Co., The, assignee: *See*—  
Dinzi, Richard W.
- Watson, Sydney C., assignor to United Specialties Company, Chicago, Ill. Turbine wheel. 2,428,728; Oct. 7.
- Watson, Sydney C., assignor to United Specialties Company, Chicago, Ill. Making turbine wheels. 2,432,185; Dec. 9.
- Watson, Thomas E., Tewksbury, Mass., assignor, by mesne assignments, to Cocker Machine and Foundry Company. Beam warper. 2,415,857; Feb. 18.
- Watson, Thomas S., assignor to Huebsch Manufacturing Company, Milwaukee, Wis. Forming rubber bags. 2,425,166; Aug. 5.
- Watson, William E.: *See*—  
Stephenson, Richard, and Watson.
- Watt Car & Wheel Company, The, assignee: *See*—  
Edgar, Robert L., and Tipton.
- Watter, Michael, assignor to The Budd Company, Philadelphia, Pa. Aircraft control mechanism. 2,418,060; Mar. 25.
- Watter, Michael, assignor to The Budd Company, Philadelphia, Pa. Aircraft operating mechanism. 2,424,523; July 22.
- Watter, Michael, assignor to The Budd Company, Philadelphia, Pa. Apparatus for testing aircraft. 2,425,273; Aug. 5.
- Watter, Michael, assignor to The Budd Company, Philadelphia, Pa. Airplane. 2,425,498; Aug. 12.
- Watter, Michael, assignor to The Budd Company, Philadelphia, Pa. Wing-body structure for airplanes. 2,425,499; Aug. 12.
- Watter, Michael, assignor to The Budd Company, Philadelphia, Pa. Aircraft construction for handling cargo. 2,425,972; Aug. 19.
- Watter, Michael, assignor to The Budd Company, Philadelphia, Pa. Assembling aircraft structures. 2,429,144; Oct. 14.
- Watter, Michael, Philadelphia, and A. G. Dean, Narberth, Pa., assignors to The Budd Company. Aircraft fuselage and wing construction. 2,416,245; Feb. 18.
- Watter, Michael, and G. W. Pancoe, assignors to The Budd Company, Philadelphia, Pa. Engine mount. 2,422,452; June 17.
- Watter, Michael, and F. P. Bender, assignors to The Budd Company, Philadelphia, Pa. Manufacturing and assembling airfoil structures. 2,430,438; Nov. 4.
- Watter, Michael, Philadelphia, and A. G. Dean, Narberth, assignors to The Budd Company, Philadelphia, Pa. Fabricated aircraft structure. 2,432,055; Dec. 2.
- Watters, Joseph C., Atlanta, Ga. Adjustable crutch. 2,422,451; June 17.
- Watters, Joseph C., Atlanta, Ga. Crutch. 2,426,074; Aug. 19.
- Watts, Arthur J., Highfield, Lydney, England. Domestic and central-heating boiler. 2,414,782; Jan. 21.
- Watts, Roger B., Nashua, N. H., assignor to Whitin Machine Works, Whitinsville, Mass. Traveller-applying tool. 2,418,209; Apr. 1.
- Watts, Vilas E., San Francisco, Calif. Producing curved laminated structures. 2,418,438; Apr. 1.
- Waugh, Dale L.: *See*—  
Freedlander, Abraham L., Waugh, and Kremer.
- Waugh Equipment Company, assignee: *See*—  
Roy, Nereus H.
- Waugh, Richard E., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Hydrocarbon conversion with Friedel-Crafts type catalyst. 2,425,074; Aug. 5.
- Waugh, Stanley P., Westfield, assignor to Tide Water Associated Oil Company, Bayonne, N. J. Metal surface treatment. 2,433,311; Dec. 23.
- Waxman, Edward, University City, assignor to G. & R. Manufacturing Company, St. Louis, Mo. Garment. 2,414,678; Jan. 21.
- Way, Glenn W., Delaware, Ohio. Endless tread industrial truck. 2,421,472; June 3.
- Wayland, Glenn J., Ottumwa, Iowa. Rotary Diesel engine. 2,417,894; Mar. 25.
- Wayman, Albert J., Youngstown, Ohio. Cable rack. 2,424,008; July 15.
- Waymouth Gauges and Instruments Limited, assignee: *See*—  
Waymouth, Henry.
- Waymouth, Henry, Harrow, assignor to Waymouth Gauges and Instruments Limited, Harrow, Middlesex, England. Electrical condenser for liquid volume indicators. 2,428,898; Oct. 14.
- Wayne Knitting Mills, assignee: *See*—  
White, William D., and Graff.
- Wean, Robert E., Plainfield, N. J., and F. S. Charlton, Brooklyn, N. Y., assignors to Stauffer Chemical Company. Fused mixture of sulfur and di(monochlorophenyl) trichlorethane as an insecticide. 2,414,216; Jan. 14.
- Weatherhead, Albert J., Jr., Shaker Heights, assignor to The Weatherhead Company, Cleveland, Ohio. Differential turbine for fluid transmission. 2,417,224; Mar. 11.
- Weatherhead, Albert J., Jr., Shaker Heights, assignor to The Weatherhead Company, Cleveland, Ohio. Hose end. 2,432,598; Dec. 16.
- Weatherhead Company, The, assignee: *See*—  
Balogh, Roy O.  
Carlson, Bert G.  
Herold, Robert E.  
Knaggs, Harold J., and Hufferd.  
Marasko, Edward J.  
Paquin, Joseph N.  
Stecher, Henry D., and Murray.  
Weatherhead, Albert J., Jr.
- Weathers, Paul, Upper Darby, Pa., assignor to Radio Corporation of America. Beverage inspection machine. 2,427,319; Sept. 9.
- Weather-Seal, Inc., assignee: *See*—  
Etling, Harold A.  
Renton, Henry N.
- Weatherup, Robert A., Redlands, Calif. Internal-combustion engine. 2,420,117; May 6.
- Weaver, Edgar R., Dayton, Ohio. Adhesive tension patch. 2,413,737; Jan. 7.
- Weaver, Edgar R., Dayton, Ohio. Hangar door operating mechanism. 2,425,016; Aug. 5.
- Weaver, Jesse E., Carnegie, assignor to Horix Manufacturing Company, Pittsburgh, Pa. Prevacuumizing filling machine. 2,428,598; Oct. 7.
- Weaver, Leslie E.: *See*—  
Lévy, Maurice M., and Weaver.
- Weaver, Marvin S., Aberdeen, N. C. Bottle crowning machine. 2,427,376; Sept. 16.
- Weaver, Sara E., assignor to Steel City Testing Machines, Incorporated, Detroit, Mich. Machine for testing hardness of metals and other materials. 2,418,916; Apr. 15.
- Weaver, Virgil L., Greenwood, Mass., assignor to General Electric Company. Dynamometer type electrical measuring instrument. 2,419,100; Apr. 15.
- Webb, Arden E., Heflin, Ala. Tractor track guard. 2,418,610; Apr. 8.
- Webb, Charles E., New London, Wis., assignor to Edison Wood Products, Incorporated, West Orange, N. J. Bottom support for cribs. 2,414,076; Jan. 7.
- Webb, Charles E., New London, Wis., assignor to Edison Wood Products, Incorporated, West Orange, N. J. Crib. 2,418,680; Apr. 8.
- Webb, Edmund F., Franklin Village, assignor to Chrysler Corporation, Highland Park, Mich. Gasoline filter. 2,424,211; July 15.
- Webb, Ernest C., Bay Village, Ohio, assignor to Iron Fireman Manufacturing Company, Portland, Ore. Feeder from tender or hopper. 2,422,941; June 24.
- Webb, Ernest C., Bay Village, Ohio, assignor to Iron Fireman Manufacturing Company, Portland, Ore. Domestic water tube boiler. 2,429,904; Oct. 28.
- Webb, George A.: *See*—  
Mitchell, John, and Webb.
- Webb, Herbert J.: *See*—  
Baker, Benjamin P., and Webb.  
Ludwig, Leon R., Webb, and Baker.  
Wilcox, Howard M., Schrameck and Webb.
- Webb, Jervis B., Bloomfield Township, Oakland County, assignor to Jervis B. Webb Company, Detroit, Mich. Rollerway skid. 2,421,670; June 3.
- Webb, Jervis B., Bloomfield Hills, assignor to Jervis B. Webb Company, Detroit, Mich. Apron conveyor. 2,428,507; Oct. 7.
- Webb, Jervis B., Company, assignee: *See*—  
Webb, Jervis B.
- Webb, Richard C., Lafayette, assignor to Purdue Research Foundation, West Lafayette, Ind. Frequency discriminator. 2,415,468; Feb. 11.
- Webb, Richard C., Lafayette, assignor to Purdue Research Foundation, West Lafayette, Ind. Electrical control apparatus. 2,415,469; Feb. 11.
- Webb, Wesley L.: *See*—  
Sisson, Wayne A., and Webb.
- Webb, Wesley L., Glen Moore, Pa., assignor to American Viscose Corporation, Wilmington, Del. Drying method and apparatus for cylindrical articles. 2,415,198; Feb. 4.
- Webber, Carroll A.: *See*—  
Kemp, Archie R., and Webber.
- Webber, Charles S., and S. B. Luce, Loudonville, N. Y., and F. M. Murdock, Springfield, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo. Manufacture of cast phenolic resin. 2,417,959; Mar. 25.



- Webber, Hugh E., Williston Park, N. Y., assignor to Sperry Gyroscope Company, Inc. Barreter wire unit. 2,414,499; Jan. 21.
- Webber, Hugh E., Williston Park, N. Y., assignor to Sperry Gyroscope Company, Inc. Tuned microwave wattmeter. 2,419,613; Apr. 29.
- Webber, Hugh E., Williston Park, N. Y., assignor to Sperry Gyroscope Company, Inc. Microwave wattmeter unit. 2,424,596; July 29.
- Webber, William F.: *See*—  
Schmidt, Edward W., and Webber.
- Webberking, Harry, Scranton, Pa. Combined fluid pressure motor and pump. 2,433,586; Dec. 30.
- Weber, Albert, Edgewood, R. I. Slider for separable fasteners. 2,433,801; Dec. 30.
- Weber, Arthur G., Bellevue Manor, and C. H. Hamblet, Gordon Heights, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of heavy metal soaps. 2,416,074; Feb. 18.
- Weber, Arthur G., and C. D. Bell, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Purification of aminoacetonitrile by vacuum distillation. 2,425,661; Aug. 12.
- Weber, Carl: *See*—  
Berkman, Boris, Bacon, and Weber.
- Weber Dental Manufacturing Company, The, assignee: *See*—  
Binus, David J.  
Monnot, Edward L.
- Weber, Earl J., Cleveland, Ohio, assignor to American Gas Association, Inc. Gas purity testing device. 2,422,604; June 17.
- Weber, Edward, Winchester, Mass., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Dyeing with indigoid vat dyestuffs. 2,420,729; May 20.
- Weber, Emmerich, Forest Hills, N. Y. Foldable clasp for wrist watch bands. 2,429,950; Oct. 28.
- Weber, Harry: *See*—  
Henckler, Edward, and Weber.
- Weber, John W., and C. R. Davies, assignors to Proctor & Schwartz, Inc., Philadelphia, Pa. Hand carding tool. 2,419,748; Apr. 29.
- Weber, Louis, White Marsh, assignor to The Glenn L. Martin Company, Middle River, Md. Punching and dimpling tool. 2,433,312; Dec. 23.
- Weber, Louis J., Borger, Tex., assignor to Phillips Petroleum Company. High-temperature conduit. 2,423,213; July 1.
- Weber, Max, Chicago, Ill. Propeller blade. 2,415,380; Feb. 4.
- Webersinn, Theodore H., and J. Hyner, Waterbury, Conn., assignors to United Chromium, Incorporated, New York, N. Y. Electroplating to produce fissure network chromium plating. 2,430,750; Nov. 11.
- Webster-Brinkley Co., assignee: *See*—  
Sprake, Tyler W.
- Webster-Chicago Corporation, assignee: *See*—  
Dale, Colin B.
- Webster, David A.: *See*—  
Albert, Orrin W., and Webster.
- Webster, Roger M., New London, Conn. Dielectric welding rod holder. 2,432,639; Dec. 16.
- Webster, Russell H., Quakertown, Pa. Hanger. 2,432,957; Dec. 16.
- Weckstein, Joseph, New York, N. Y. Metal working machine. 2,433,076; Dec. 23.
- Wedeberg, Reuben, assignor to Stewart-Warner Corporation, Chicago, Ill. Lubricant measuring valve. 2,427,755; Sept. 23.
- Wedgeplug Valve Company, assignee: *See*—  
Reed, Isaac N., and Mayer.
- Wedge, Walter H., Newton Centre, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Stiffening portions of the uppers of shoes. 2,424,869; July 29.
- Wedgworth, John K., York, Ala. Rail tie and fastening means. 2,416,555; Feb. 25.
- Wedlock, Albert W. H., Cirencester, England, assignor, by mesne assignments, to Mycalex Corporation of America, New York, N. Y. Manufacture of an improved vitreous material. Re. 22,893; June 24.
- Weed, Edward L., Providence, R. I. Necklace. 2,416,034; Feb. 18.
- Weed, James M., Syracuse, N. Y., assignor to General Electric Company. Electrical induction apparatus. 2,414,990; Jan. 28.
- Weeks, Clarence L., Grayville, La. Garment protector. 2,416,556; Feb. 25.
- Weeks, Walter R., Hamden, Conn., assignor to General Electric Company. Temperature control system. 2,428,642; Oct. 7.
- Wegman, Evert S.: *See*—  
Leech, Herbert C.  
Tull, Robert H., and Wegman.
- Wegmann, Adolph J., Flushing, N. Y., assignor to Dri-Steam Products, Inc. Steam separator. 2,418,381; Apr. 1.
- Wegner Machinery Corporation, assignee: *See*—  
Wennberg, Odd, and Bates.
- Wegst, Walter F., L. R. Bacon, Wyandotte, and T. H. Vaughn, Grosse Ile, assignors to Wyandotte Chemicals Corporation, Wyandotte, Mich. Inhibiting alkali dissolution of glass. 2,419,805; Apr. 29.
- Wegst, Walter F., and L. R. Bacon, Wyandotte, T. H. Vaughn, Grosse Ile, and D. J. Crawford, assignors to Wyandotte Chemicals Corporation, Wyandotte, Mich. Washing glass surfaces and composition. 2,425,907; Aug. 19.
- Wegst, Walter F., and Perle N. Burkard, assignors to Wyandotte Chemicals Corporation, Wyandotte, Mich. Inhibiting attack on glass surfaces by caustic soda solutions. 2,428,187; Sept. 30.
- Wehner, Robert S., Port Jefferson, N. Y., assignor to Radio Corporation of America. Antenna. 2,417,793; Mar. 18.
- Wehner, Robert S., Port Jefferson, N. Y., assignor to Radio Corporation of America. Broad band antenna for aircraft. 2,418,961; Apr. 15.
- Wehr, Alois L.: *See*—  
Hutchison, Miller R., Jr., and Wehr.
- Wehr, Julian R., Roxbury, Vt. Animated illustration. 2,429,335; Oct. 21.
- Wehringer, Herman H., Montclair, N. J. Rack for apparel belts or the like. 2,419,101; Apr. 15.
- Wehrli, Walter, Basel, assignor to Sandoz Ltd., Fribourg, Switzerland. Trisazo copper complexes. 2,427,539; Sept. 16.
- Weible, Glenn B., North Hollywood, and Robert J. Burns, assignors to Lockheed Aircraft Corporation, Burbank, Calif. Water-thinned paints. 2,427,481; Sept. 16.
- Weibler, Carleton T.: *See*—  
Marquis, John F., and Weibler.
- Weibler, Carleton T., assignor to Operadio Manufacturing Co., St. Charles, Ill. Loud-speaker. 2,433,250; Dec. 23.
- Weida, Harry, deceased, Plainfield, N. J., by L. E. Weida, Garden City, executrix, assignor to American Hard Rubber Company, New York, N. Y. Battery jar. 2,427,639; Sept. 16.
- Weida, Lydia E., executrix: *See*—  
Weida, Harry.
- Weida, Millard F., assignor, by mesne assignments, to Knapp-Monarch Company, St. Louis, Mo. Welded bulb and cap. 2,425,448; Aug. 12.
- Weidner, Walter, Detroit, Mich. Cup or glass supporting plate. 2,427,697; Sept. 23.
- Weidner, William C.: *See*—  
Miller, Alfred J., Weidner, and Kolody.
- Weightman, William A., assignor to The Budd Company, Philadelphia, Pa. Bent corrugated web and making same. 2,417,960; Mar. 25.
- Weigle, Jacques E., and J. Minder, Geneva, Switzerland. Toolholder appliance for lathes. 2,428,508; Oct. 7.
- Weijlard, John, assignor to Merck & Co., Inc., Rahway, N. J. Purifying co-carboxylase. 2,415,544; Feb. 11.
- Weijlard, John, Westfield, and M. Tishler, Rahway, N. J., and A. E. Erickson, Brooklyn, N. Y., assignors to Merck & Co., Inc., Rahway, N. J. Production of pyrazine derivatives. 2,431,896; Dec. 2.
- Weikel, Raymond C., assignor to Boeing Aircraft Company, Seattle, Wash. Adjustable length device. 2,424,376; July 22.
- Weil, George, trustee, assignee, et al.: *See*—  
Finzel, Herman.
- Weil-Kalter Manufacturing Company, assignee: *See*—  
Schweich, Joseph H.
- Weil, Marcel, New York, N. Y. Filing device. 2,415,054; Jan. 28.
- Weil, N. H., trustee, assignee, et al.: *See*—  
Finzel, Herman.
- Weil, Ralph, trustee, assignee, et al.: *See*—  
Finzel, Herman.
- Weiler, John E., Lake Charles, La., assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Metal skimming ladle. 2,431,288; Nov. 18.
- Weimann, Henry: *See*—  
Pereni, Edmund, and Weimann.
- Weimer, William H., North Prairie, assignor to Davis & Thompson Company, West Allis, Wis. Boring machine. 2,424,524; July 22.
- Weimont, Joseph, Bogota, N. J., assignor to A. Kimball Company, New York, N. Y. Ink ribbon feeding device. 2,424,725; July 29.
- Wein, Frank, New York, assignor of one-half to I. S. Klemes, Forest Hills, N. Y. Dress construction and shoulder pad therefor. 2,421,736; June 3.
- Weinaug, Charles F.: *See*—  
Thodos, George, and Weinaug.
- Weinberg, Charles, New York, N. Y. Folding cloth filter for coffee percolators. 2,426,720; Sept. 2.
- Weinberger, George S., San Francisco, Calif. Centrifugal air separator and screening device for comminuted material. 2,418,061; Mar. 25.
- Weinbrot, William, Brooklyn, N. Y. Platform shoe. 2,428,862; Oct. 14.
- Weiner, Harry, assignor to F. G. Flosi, doing business as Allied Industries, Chicago, Ill. Multiple switch. 2,427,483; Sept. 16.
- Weinert, Carl R., West View, assignor to Federal Laboratories, Inc., Pittsburgh, Pa. Tree suspension grenade device. 2,419,430; Apr. 22.
- Weingarten, Murray, New York, N. Y. Furniture seat construction. 2,417,146; Mar. 11.
- Weingartner, Gerald A., Grand Island, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Stitching machine. 2,415,923; Feb. 18.
- Weinhardt, Carl J., Indianapolis, Ind. Electric heating unit. 2,422,057; June 10.



- Weinhardt, Robert A., Detroit, Mich., and H. J. Bowman, East Troy, Wis. Electropercussive welding apparatus. 2,419,749; Apr. 29.
- Weinman, Fred, Brooks, Oreg. Electrotherapy. 2,418,917; Apr. 15.
- Weinmayr, Viktor, Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing chlorinated anthraquinones. 2,417,027; Mar. 4.
- Weinrich, Arthur R.: See—  
Colbert, William H., and Weinrich.  
Ogle, James, Jr., and Weinrich.  
Whitaker, Arthur C., and Weinrich.
- Weinschenk, Gosbert, Chicago, Ill. Postal card. 2,430,626; Nov. 11.
- Weinstat, Philip, Lynn, Mass. Shoemaking. 2,427,985; Sept. 23.
- Weinstein, Abraham S., Brighton, Mass. Ash sifting device. 2,432,599; Dec. 16.
- Weinstein, Louis K., Bronx, N. Y. Combination stove-pipe T-fitting and closure. 2,416,075; Feb. 18.
- Weinthal, Stanley E., and E. T. Britcher, Flint, assignors to General Motors Corporation, Detroit, Mich. Gauge for screw-thread rolling. 2,433,078; Dec. 23.
- Weirich, David J., Williamstown, N. J. Toy electrical engine. 2,426,131; Aug. 19.
- Weisbecker, Frank G., Glenside, Pa. Knitting machine attachment. 2,426,803; Sept. 2.
- Weisbecker, Frank G., Glenside, Pa. Knockover bit assembly and mounting therefor. 2,430,694; Nov. 11.
- Weisbecker, Frank G., Glenside, Pa. Knitting machine. 2,430,695; Nov. 11.
- Weisberg, Joseph, Brooklyn, N. Y. Fur article. 2,432,360; Dec. 9.
- Weisberg, Mark: See—  
Kamlet, Jonas, Weisberg, and Beer.
- Weisberg, Sidney M., Newark, assignor to Allied Electric Products, Inc., Irvington, N. J. Brace for fluorescent lamp sockets. 2,429,951; Oct. 28.
- Weiser, Tobiah, New York, N. Y. Electrical hair removing instrument. 2,417,530; Mar. 18.
- Weisglass, Louis L.: See—  
Simmon, Alfred, and Weisglass.
- Weisglass, Louis L., New York, assignor, by mesne assignments, to Simmon Brothers, Inc., Long Island City, N. Y. Voltage supply system for amplifiers of the electron multiplier type. 2,430,265; Nov. 4.
- Weiskopf, Edwin C., New York, N. Y. Illumination device. 2,415,055; Jan. 28.
- Weiss, Abraham and J., New York, N. Y. Internal-combustion engine. 2,414,217; Jan. 14.
- Weiss, Abraham I., Brookline, Mass. Faucet. 2,429,783; Oct. 28.
- Weiss, Dewey S., Portland, Oreg. Vehicle draft tongue mounting. 2,428,950; Oct. 14.
- Weiss, Emil: See—  
Reppe, Walter, Schuster, and Weiss.
- Weiss, Eric E., White Plains, N. Y., assignor to United Merchants & Manufacturers Inc., Wilmington, Del. Textile products and producing same. 2,433,722; Dec. 30.
- Weiss, Gerhart: See—  
Marks, Alvin, Weiss, and Miller.
- Weiss, Herbert K., Camp Davis, N. C. Apparatus for regenerating and smoothing data. 2,433,006; Dec. 23.
- Weiss, Joseph: See—  
Weiss, Abraham and J.
- Weiss, Max: See—  
Natelson, Samuel, and Weiss.
- Weiss, Melvin V., Haddonfield, assignor to Radio Condenser Company, Camden, N. J. High-frequency tuning structure. 2,422,454; June 17.
- Weiss, Oscar, Johannesburg, Transvaal, Union of South Africa. Apparatus for measuring the density of liquids. 2,416,808; Mar. 4.
- Weiss, Robert H., Plainfield, and A. C. Winttingham, Glen Ridge, N. J., assignors to American Cyanamid Company, New York, N. Y. Preparation of arylides of aromatic orthohydroxy carboxylic acids. 2,418,326; Apr. 1.
- Weissberger, Arnold: See—  
Salminen, Ilmari F., and Weissberger.
- Weissberger, Arnold, and H. A. Kurtzner, assignors to Eastman Kodak Company, Rochester, N. Y. Ascorbic acid in photographic developing solutions. 2,415,666; Feb. 11.
- Weissenberger, Anthony F.: See—  
Ulrich, Charles J., and Weissenberger.
- Weisser, Arthur H., Jackson, Mich. Making a buffing or polishing bar. 2,417,800; Mar. 18.
- Weissman, Milton, Rego Park, N. Y., assignor to A. Papish, Inc., Danbury, Conn. Carrotting fur for felting. 2,432,056; Dec. 2.
- Weissman, David, Philadelphia, Pa. Attachment for baby carriages and the like. 2,427,482; Sept. 16.
- Weissman, Morton R., West New York, N. J. Rotatable electrical connector. 2,423,276; July 1.
- Weissman, Morton R., West New York, N. J. Electrical bushing type connector. 2,423,277; July 1.
- Weite, Ernest S., Wells, Minn. Hand operated potato seed planter. 2,421,821; June 10.
- Weizmann, Charles, London, W. C. 1, assignor to Butacet Limited, London, England. Production of aliphatic acids from sulphite waste liquor. 2,415,777; Feb. 11.
- Weizmann, Charles, London, W. C. 1, assignor to Butacet Limited, London, England. Fermentation process. 2,417,801; Mar. 18.
- Weizmann, Charles, assignor to Ketarome Limited, London, England. Aromatization of oil produced in low temperature carbonization of coal. 2,430,476; Nov. 4.
- Wekeman, Stephen N., Saddle River Township, Bergen County, N. J., assignor to Sun Chemical Corporation. Changeable lens and filter structure for copy cameras. 2,420,023; May 6.
- Welch, Alfred F., Fort Wayne, Ind., assignor to General Electric Company. Synchronous motor rotor positioning device. 2,427,584; Sept. 16.
- Welch, Arthur R., Hoquiam, Wash. Coated wood product. 2,419,614; Apr. 29.
- Welch, David F., assignor to California Institute Research Foundation, Pasadena, Calif. Low level reflector. 2,423,378; June 17.
- Welch, Douglas F.: See—  
Coe, Reginald T., Robinson, and Welch.  
Wilkinson, Kenneth J. R., Welch, and Clough.
- Welch, Douglas F., and K. J. R. Wilkinson, Rugby, England, assignor to General Electric Company. Ignition system. 2,416,971; Mar. 4.
- Welch, Russell A., Detroit, Mich. Electrode holder. 2,415,778; Feb. 11.
- Welch, William E. D., Rome, Ga., assignor, by mesne assignments, to Celanese Corporation of America. Bobbin arbor. 2,416,785; Mar. 4.
- Weld, Henry H., assignor to Cone Automatic Machine Company Inc., Windsor, Vt. Toolholder assembly. 2,431,852; Dec. 2.
- Welding Apparatus Company, assignee: See—  
Madson, Harold R.
- Welding, George N.: See—  
Buist, Jack M., Harper, Smith, and Welding.
- Welding Research, Inc., assignee: See—  
Sciaky, David.
- Weldon, James O., Del Rio, Tex., assignor to Federal Telephone & Radio Corporation, New York, N. Y. Hum reducing modulator. 2,419,615; Apr. 29.
- Welham, Geoffrey L. F.: See—  
MacArthur, William W., and Welham.
- Welham, Geoffrey L. F., South Ruislip, assignor to The Fairey Aviation Company Limited, Hayes, Middlesex, England. Apparatus for flanging sheet metal strips. 2,424,947; July 29.
- Welk, Nelson S., assignor to The McBee Company, Athens, Ohio. Card sorting machine. 2,417,531; Mar. 18.
- Welk, Nelson S., and C. O. Carpenter, assignors to The McBee Company, Athens, Ohio. Direct action keypunch. 2,421,531; June 3.
- Welker, Harold: See—  
Hilker, Harrison F., and Welker.  
Thurston, Paul L., Hilker, and Welker.  
Thurston, Paul L., and Welker.
- Welker, Ralph E.: See—  
Mamlin, Morris W., and Welker.
- Wellauer, Edward J.: See—  
Schmitter, Walter P., and Wellauer.
- Wellbrock, John H., Queens Village, N. Y. Brake fluid control apparatus. 2,419,977; May 6.
- Wellenstein, Robert, Bremen, Germany; vested in the Alien Property Custodian. Apparatus for measuring distances. 2,415,119; Feb. 4.
- Weller, Charles, Philadelphia, Pa. Apparatus for severing knitted structures. 2,422,154; June 10.
- Welling, Charles H., New Canaan, Conn., and C. K. Reiman, Newton, assignors to Z Pack Corporation, Boston, Mass. Freezing comestibles. 2,424,870; July 29.
- Wellings, Albert A., U. S. Navy. Attack course computer. 2,416,363; Feb. 25.
- Wellman Company, assignee: See—  
Stuart, Charles J.
- Wellman Engineering Company, The, assignee: See—  
Hills, Harold G.
- Wellman, Homer B.: See—  
Claussen, William H., and Wellman.
- Wellman, John W.: See—  
Tishler, Max, and Wellman.
- Wellman, S. K., Company, assignee: See—  
Wellman, Samuel K.
- Wellman, Samuel K., Cleveland Heights, assignor to S. K. Wellman Company, Cleveland, Ohio. Making metallic disk structures. 2,432,842; Dec. 16.
- Wells, Arthur F., Jr., and P. C. Mackley, Gary, Ind. Apparatus for forming test samples of electrolytic tin plate. 2,431,528; Nov. 25.
- Wells, Burling D., Danbury, Conn., assignor, by mesne assignments, to John B. Stetson Company, Philadelphia, Pa. Hat blocking machine construction. 2,424,525; July 22.
- Wells, Clint G., Galveston, Tex. Adjustable stirrup suspension for saddles. 2,418,103; Mar. 25.
- Wells Company, Inc., The, assignee: See—  
Wells, Robert D.
- Wells, Earl W., St. Clair Shores, Mich. Cartridge fuse. 2,427,245; Sept. 9.
- Wells, Frank W., and J. T. Kulhavy, Rock Island, Ill. Hydraulic power lift for tractor apparatus. 2,430,197; Nov. 4.
- Wells, Franklin B., Verona, N. J., assignor to Ellis-Foster Company. Process for the treatment of metal surfaces and product thereof. 2,417,028; Mar. 4.
- Wells, Fred W., assignor to Blair Manufacturing Company, Springfield, Mass. Lawn mower. 2,414,077; Jan. 7.



- Wells, Fred W., assignor to Blair Manufacturing Company, Springfield, Mass. Lawn mower wheel bearing 2,415,924; Feb. 18.
- Wells-Gardner & Co., assignee: *See*—Swallow, Joseph L.
- Wells, Harold D., Glens Falls, N. Y. Pulp beater and selector. 2,424,726; July 29.
- Wells, James D., Floral Park, N. Y., assignor to American Machine & Foundry Company. Hot seal cooling mechanism. 2,420,763; May 20.
- Wells, Joseph H.: *See*—Wilson, Philip J., Jr., Wells, and Sommerfeld.
- Wells, Joseph H., and P. J. Wilson, Jr., Pittsburgh, Pa., assignors to Carnegie-Illinois Steel Corporation. Removing cyclopentadiene from forerunnings. 2,424,948; July 29.
- Wells Lamont Corporation, assignee: *See*—Wells, William O., Jr.
- Wells, Martin, Los Angeles, Calif. Electrode holder. 2,418,681; Apr. 8.
- Wells, Martin, Los Angeles, Calif. High-pressure pump. 2,427,889; Sept. 23.
- Wells, Maynard W., Elkhart, Ind. Appliance for chairs and the like. 2,429,498; Oct. 21.
- Wells, Robert D., assignor to The Wells Company, Inc., Seattle, Wash. Block wall construction. Re. 22,913; Sept. 9.
- Wells, Sidney D., Combined Locks, Wis., assignor to The Institute of Paper Chemistry. Foam prevention. 2,423,214; July 1.
- Well Surveys, Incorporated, assignee: *See*—Fearon, Robert E.  
Inman, Louis H.
- Wells, William J., assignor to F. N. Burt Company, Inc., Buffalo, N. Y. Dispensing carton. 2,419,182; Apr. 15.
- Wells, William J., assignor to F. N. Burt Company, Inc., Buffalo, N. Y. Dispensing package. 2,422,605; June 17.
- Wells, William O., Jr., Evanston, assignor to Wells Lamont Corporation, Chicago, Ill. Glove and blank for making the same. 2,427,170; Sept. 9.
- Wells, Willis L., Clayton, Mo., assignor to Curtiss-Wright Corporation. Aircraft elevator construction. 2,430,793; Nov. 11.
- Welp, Edward W.: *See*—Bieker, Lawrence W., and Welp.
- Welsh, David H., Sr., Duluth, Minn. Ship hull. 2,430,380; Nov. 4.
- Welsh, Frederick E., Springwater, N. Y. Portable bulkhead. 2,424,070; July 15.
- Welsh, Richard J., assignee: *See*—Condon, John.
- Welsh, Robert J.: *See*—Carnegie, Herbert S., Welsh, and Wood.
- Welsh, Robert J., Rugby, assignor to The English Electric Company Limited, London, England. Power plant of the free piston type. 2,423,472; July 8.
- Welsh, Robert J., Rugby, assignor to The English Electric Company Limited, London, England. Free piston type internal-combustion compressor. 2,425,850; Aug. 19.
- Welter, Grover C., Roswell, N. Mex. Truss. 2,423,215; July 1.
- Welter, Grover C., Roswell, N. M. Detachable button. 2,423,535; July 8.
- Welter, Roy, East Chicago, Ind., assignor to Graver Tank & Mfg. Co., Inc. Liquid treatment tank with concentric compartments and with distributors below the bottom surface. 2,426,804; Sept. 2.
- Welti, Edward, Flushing, assignor to Hafner Associates, Inc., Long Island City, N. Y. Apparatus for weaving fabrics of plastic materials. 2,421,532; June 3.
- Weltronic Company, assignee: *See*—Collom, Cletus J.  
Undy, Gustav E.
- Welwyn Electrical Laboratories, Limited, assignee: *See*—Robbie, Norman F., and Whitfield.
- Wemp, Ernest E., Detroit, Mich. Clutch and clutch operating mechanism. 2,422,155; June 10.
- Wenander, Harald S., Riksbys, Stockholm, Sweden, assignor to Vibro-Plus Corporation, Wilmington, Del. Vibrating device. 2,422,639; June 17.
- Wendel, Kenneth J., Park Rapids, Minn. Inlet and outlet air distributing duct for buildings having an automatic damper means. 2,419,806; Apr. 29.
- Wendell, Charles B., Jr.: *See*—Bray, Richard I., Gabry, and Wendell.
- Wendland, John A., Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill. Railway car diaphragm. 2,419,044; Apr. 15.
- Wendt, Edward J., Elroy, Wis., assignor to Hercules Powder Company, Wilmington, Del. Manufacture of casein by means of gyratory motion applied to an inclined screen. 2,415,268; Feb. 4.
- Wendt, Elmer E., Hinsdale, assignor to W. F. Hall Printing Company, Chicago, Ill. Cover applier. 2,422,996; June 24.
- Wendt, Harold O., Columbus, Ohio, assignor to Curtiss-Wright Corporation. Elevator and tab control mechanism. 2,431,529; Nov. 25.
- Wendt, Harry C., Nahant, Mass., assignor to General Electric Company. Gyroscopic attitude indicator. 2,417,720; Mar. 18.
- Wendt, Walter F., assignor to Mathias Klein & Sons, Chicago, Ill. Compression tool. 2,423,805; July 8.
- Weniger, Joseph K., assignor to Beaumont Birch Company, Philadelphia, Pa. Ash and dust separator. 2,432,757; Dec. 16.
- Wenk, Edward A., New York, assignor to The Keystone Manufacturing Co., Buffalo, N. Y. Adapter for flared tube fittings. 2,424,727; July 29.
- Wenk, Edward A., and R. B., New York, assignors to The Keystone Manufacturing Co., Buffalo, N. Y. Tool for flaring tubing. 2,424,871; July 29.
- Wenk, Ruth B.: *See*—Wenk, Edward A. and R. B.
- Wennerg, Odd, Manhasset, and J. D. Stites, New York, assignors to Wegner Machinery Corporation, Long Island City, N. Y. Bar stock and reinforcing bar. 2,418,382; Apr. 1.
- Wennerg, Odd, Manhasset, and J. D. Stites, New York, assignors to Wegner Machinery Corporation, Long Island City, N. Y. Bar stock and reinforcing bar. 2,418,383; Apr. 1.
- Wenner, Wilhelm, Montclair, and J. T. Plati, Passaic, assignors to Hoffman La Roche, Inc., Nutley, N. J. Pyridones and making them. 2,414,783; Jan. 21.
- Wensley, Arthur E., Schenectady, N. Y. Pneumatic tire. 2,431,897; Dec. 2.
- Wentworth, Chandler, Princeton, N. J., assignor to Radio Corporation of America. Variable permeability inductance device. 2,431,438; Nov. 25.
- Wentworth, Clifton L., Wichita, Kans. Dispensing container for cosmetic tissue. 2,433,587; Dec. 30.
- Wentworth, Pearl J., Fort Thomas, Ky. Manufacturing shoe soles and the like. 2,416,888; Mar. 4.
- Wentz, Ralph R., Brooklyn, N. Y. Attachment of hair springs to arbors. 2,425,017; Aug. 5.
- Wenzel, Alfred C., assignor to Republic Flow Meters Company, Chicago, Ill. Navigation instrument. 2,432,958; Dec. 16.
- Wenzel, Alfred C.: *See*—Drescher, Rowland B., and Wenzel.
- Wenzel, Fred J., Chicago, Ill. Motion-picture film reel supporting and driving apparatus. 2,428,538; Oct. 7.
- Wenzel, Joseph L., Kansas City, Mo. Tire chain. 2,420,804; May 20.
- Werbel, Burton: *See*—Escoffery, Charles A., and Werbel.
- Werbin, Sanford J.: *See*—Frieden, Alexander, and Werbin.
- Werner, Frank J., Jr., assignee: *See*—Fetterolf, Layton R.
- Werner, Henry, Guymon, Okla. Pickup grain loader. 2,415,617; Feb. 11.
- Werner, Herbert B., assignor to Verson Allsteel Press Company, Chicago, Ill. Punch press having a die cushion. 2,417,794; Mar. 18.
- Werner, Leo C.: *See*—Cherry, Sidney J., and Werner.  
Wimpy, Edgar K., and Werner.
- Werner, Leo C., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Making electrode strands. 2,433,497; Dec. 30.
- Werner, Sture E., and A. O. Jørgensen, assignors to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Electromagnetic motor. 2,432,600; Dec. 16.
- Wernig, Charles P., St. Albans, assignor to Embosograf Corporation of America, New York, N. Y. Collet chuck holder. 2,431,594; Nov. 25.
- Wernlund, Christian J., and J. R. Macon, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Silver plating. 2,429,970; Oct. 28.
- Werry, John A., Cedar Grove Township, Essex County, N. J., assignor to Kidde Manufacturing Co., Inc. Inflatable device. 2,424,597; July 29.
- Werth, Laurence A., Dearborn, Mich. Device for separating liquids of different specific gravity. 2,419,666; Apr. 29.
- Werth, Lloyd L., assignor to Eastman Kodak Company, Rochester, N. Y. Seal for containers. 2,428,951; Oct. 14.
- Werth, Rudolph G., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Unwinding and counting apparatus. 2,427,079; Sept. 9.
- Werts, Everett W.: *See*—Crosthwait, David N., Jr., and Werts.
- Wertz, Hugh S., assignee, trustee: *See*—Earle, Guyon, L. C.
- Wertz, Hugh S., New Hyde Park, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cathode-ray device for improving signal-to-noise ratio in radar systems. 2,430,038; Nov. 4.
- Wesely, Edwin F., Chevy Chase, Md. Radiant heat ironer and drier. 2,432,106; Dec. 9.
- Wesley, James P., Glendale, Calif. Spring-powered key action. 2,424,377; July 22.
- Wesley, Walter F., Minneapolis, Minn. Diaphragm pump. 2,430,545; Nov. 11.
- Wessel, Carl, assignor to himself and L. W. Cleminson, Chicago, Ill., as trustees. Mold for casting metals. 2,429,145; Oct. 14.
- Wessel, Carl, assignor to C. Wessel and L. W. Cleminson, Chicago, Ill. Mold and core structure. 2,429,146; Oct. 14.



- Wesselhoff, Ernest E., Boston, Mass., assignor to Morse Chain Company, Ithaca, N. Y. Chain drive. 2,426,960; Sept. 2.
- Wessén, Georg A., Stockholm, Sweden. Drawing instrument. 2,433,313; Dec. 23.
- Wessinger, Harold B., Medford, Mass. Compensating roller support. 2,430,487; Nov. 11.
- Wessman, Walter G., Fairfield, Conn. Grinding machine. 2,414,182; Jan. 14.
- West, Byron L., Plainfield, and C. E. Lewis, Somerville, N. J., assignors to American Cyanamid Company, New York, N. Y. Chrome monazo complex. 2,421,737; June 3.
- West, Charles P., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Switchgear. 2,424,345; July 22.
- West, Clarence, Oak Park, assignor of one-half to Grant Gillam, Chicago, Ill. Linoleum paste spreader. 2,425,215; Aug. 5.
- West, Cutler D.: *See*—  
Shepherd, Ridgley G., Jr., and West.
- West, Cutler D., assignor to Polaroid Corporation, Cambridge, Mass. Crystal formation. 2,414,679; Jan. 21.
- West, Cutler D., assignor to Polaroid Corporation, Cambridge, Mass. Achromatic sight for guns, cameras, or the like, including polarizing and birefringent elements. 2,420,273; May 6.
- West, Cutler D., and F. J. Binda, assignors to Polaroid Corporation, Cambridge, Mass. Crystal formation. 2,414,680; Jan. 21.
- West, De Witt H.: *See*—  
Wallis, Albert E., and West.
- West, Fletcher L., assignor to The McCaskey Register Company, Alliance, Ohio. Bill weight for cash drawers. 2,428,442; Oct. 7.
- West, George, assignor to Kaukauna Machine Corporation, Kaukauna, Wis. Metal-working tool. 2,430,263; Nov. 4.
- West, George E.: *See*—  
West, Maxwell A. and G. E.
- West, Herbert J., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Resin finishing of textiles. 2,420,157; May 6.
- West, Herbert J., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Quaternary ammonium salts of melamine-formaldehyde condensation products. 2,433,802; Dec. 30.
- West, James R.: *See*—  
Carter, Leslie F., and West.  
McClellan Marcus E., and West.
- West, John D., assignor to Manitowoc Shipbuilding Company, Manitowoc, Wis. Conformer gauge. 2,425,216; Aug. 5.
- West, John W.: *See*—  
Fay, Clifford E., and West.
- West, John W., Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,413,738; Jan. 7.
- West, John W., Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge device. 2,414,500; Jan. 21.
- West, John W., Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electronic discharge device for ultra high frequency energy generation. 2,423,444; July 8.
- West, John W., Maplewood, assignor to The Thomas & Betts Co., Elizabeth, N. J. Producing serrated sleeves. 2,427,756; Sept. 23.
- West, Mack A., Paragould, Ark. Hay baler for forming perforated bales. 2,420,923; May 20.
- West, Maxwell A. and G. E., assignors to Challenger Corporation, Portland, Oreg. Screw driver. 2,417,225; Mar. 11.
- West, Samuel S., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Ionic gas analysis. 2,427,484; Sept. 16.
- West, Vern W., Denver, Colo., assignor to Automatic Devices, Inc. Liquid dispensing apparatus. 2,428,729; Oct. 7.
- West, Victor E., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Floor rack hinge. 2,425,908; Aug. 19.
- West, William A., Pine Bluff, Ark. Wheel attachment for boats. 2,421,671; June 3.
- West, William S., Chicago, Ill. Pump. 2,415,618; Feb. 11.
- West Bank Oil Terminal, Inc., assignee: *See*—  
Allen, William W.
- Westbrook, Nathaniel A., Kansas City, Mo. Mechanical reversing mechanism. 2,430,627; Nov. 11.
- Westby, Lloyd R., Berwyn, Ill. Bobby pin. 2,417,335; Mar. 11.
- Wester, Charles C., Sr., Washington, D. C. Hook for holding clotheslines or the like. 2,423,536; July 8.
- Westerman, Earl E., Gary, Ind., assignor to The Linde Air Products Company. Blowpipe nozzle. 2,433,539; Dec. 30.
- Western Condensing Company, assignee: *See*—  
Meade, Reginald E., Rodgers, and Pollard.  
Pollard, Henry L., Rodgers, and Meade.  
Rodgers, Nelson E., Pollard, and Meade.
- Western Electric Company, assignee: *See*—  
Laird, Alfred W., and Maxson.  
Trimble, Charles H.
- Western Electric Company, Incorporated, assignee: *See*—  
Adams, George P.  
Adams, Robert T.  
Adams, Robert T., and Wagner.  
Barkstrom, Elmer E., and Shaw.  
Bassett, John A., and Niemiec.  
Benfer, Richard W.  
Beuschel, Clemens B.  
Bohaby, Edward J., and Grupp.  
Boynton, Wentworth D.  
Brillhart, Samuel E., and Gray.  
Brown, Raymond W.  
Brown, William J.  
Brunner, Anton J.  
Buchwald, Charles E., and Shull.  
Carson, Kenneth J., and Kelly.  
Cherry, George L., and Veale.  
Conklin, Robert M.  
Cox, Thomas K.  
Davis, Charles C.  
Deichmiller, Alwin.  
Earhart, Edward C.  
Earl, John A., and Knittle.  
Ehret, John, Jr.  
Ensor, Vernon C., and Johnston.  
Ewaldson, Waldemar C.  
Frankwich, Alexander C., and Martin.  
Franz, Erwin E.  
Frisco, William P.  
Frisco, William P., and Rayburn.  
Gauthier, Marcel C.  
Gibson, James W.  
Goddard, Charles T.  
Haas, Walter O., Jr.  
Hansen, Lloyd D., Hegeman, and Snook.  
Harr, Russel E.  
Harris, Fred E., Hegeman, and Snook.  
Henning, George E.  
Hodgon, Frank B.  
Hogin, Philip E.  
Hueser, Frank A.  
Huston, Kenneth M.  
Huston, Kenneth M., and Rayburn.  
Juvinal, James W., and Stull.  
Kirsch, William A., and Sulzer.  
Klein, George J.  
Konicek, Frank, and Vennes.  
Krogel, Christopher J.  
Larsen, Elmer J.  
Liss, August S., and MacPheat.  
Lubbert, Carl B.  
Lubbert, Carl B., and Rozanek.  
Luley, John C.  
Mageoch, Nelson H.  
Maxson, Gordon J.  
McCoy, Clarence E.  
Merwin, Harry H.  
Merwin, Harry H., and Spillman.  
Miller, Merton R., and Ogden.  
O'Connor, Stephen F.  
Pitt, Samuel, and Waters.  
Polivka, Rudolph.  
Prickett, Alfred J.  
Pulliam, Norman A.  
Rayburn, Vincent A.  
Rayburn, Vincent A., and Robson.  
Rozanek, Charles.  
Rosendale, Robert W.  
Simmons, Glen R.  
Sirr, Emil.  
Shillington, Harry R.  
Stenson, Olaf.  
Stephanson, Edward L.  
Stull, John S.  
Trimble, Charles H.  
Vorreyer, Frederick W.  
Wagner, Julius A.  
Werth, Rudolph G.
- Western Electrical Instrument Corporation, assignee: *See*—  
Lamb, Anthony H.
- Western Hardware and Specialty Manufacturing Co., assignee: *See*—  
Menzel, Otto A.
- Western Laundry Machinery Company, assignee: *See*—  
Sando, Joseph B.
- Western Precipitation Corporation, assignee: *See*—  
Madely, Frederick J.  
Pootjes, Peter.
- Western States Machine Company, The, assignee: *See*—  
Stevens, George E.
- Western Union Telegraph Company, The, assignee: *See*—  
Buckingham, William D., and Bedell.  
Chubb, Lewis W.  
Dyer, Lloyd W., and Dorfman.  
Ellis, Delbert, and Taylor.  
Freese, Gerald J.  
Gano, Harlan S., and Freese.  
Godsey, Frank W., Jr.  
Gregory, Luther W., and Harmon.  
Hanna, Raymond P.  
Harding, William R., and Moore.  
Kenyon, Alonzo F., and Cook.  
King, George E.



Western Union Telegraph Company, The, assignee: *See*—Continued.

Kline, Bernard L.  
Leeds, Winthrop M.  
Mample, Adolph Z.  
McClellan, Cyril E.  
Moyer, Howard R., and Senkewitz.  
Nagel, George W.  
Nagel, George W., and Schultz.  
Naumann, Edward J.  
Nelson, Dale H., and Cosby.  
Okress, Ernest C.  
Pickford, Jack.  
Redding, Arnold H.  
Taylor, Charles H.  
Watrous, Ward W., Jr.  
Wise, Raleigh J.

Westfahl, Jerome C., D. S. Sears, and J. W. Martindale, Cuyaboga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Producing butadiene styrene copolymer reinforced with calcium silicate. 2,429,439; Oct. 21.

Westfall, John M., Portland, Oreg. Christmas tree support. 2,430,840; Nov. 11.

West Haven Buckle Company, The, assignee: *See*—Montgomery, John P., and Pierson.

Westhaver, Loren J., Monongahela, Pa., and J. A. Slenker, Worcester, Mass., assignors to The American Steel and Wire Company of New Jersey. Heating open-hearth furnaces. 2,423,216; July 1.

Westin, Axel, Milwaukee, assignor, by mesne assignments, of one-third to S. Westin, Elm Grove, one-third to A. Westin, and one-third to C. Greenblatt, Milwaukee, Wis. Reduction of tubular blanks. 2,419,864; Apr. 29.

Westin, Axel, Milwaukee, assignor, by mesne assignments, of one-third to S. Westin, Elm Grove, one-third to A. Westin, and one-third to C. Greenblatt, Milwaukee, Wis. Method of electroforming of metals. 2,430,092; Nov. 4.

Westin, Sven, assignee, et al.: *See*—Westin, Axel.

Westinghouse Air Brake Company, The, assignee: *See*—

Cook, Earle S.  
Crittenden, Philip L.  
Farmer, Clyde C.  
Hewitt, Ellis E.  
Hewitt, Ellis E., Bush, and Glass.  
Hines, Claude M.  
Kelley, Cecil S.  
Larson, Arthur G.  
McClure, Glenn T.  
McCune, Joseph C.  
Newell, George K.  
Stevens, Roy R.  
Stewart, Carlton D.  
Wallace, Charles L.

Westinghouse Electric Corporation, assignee: *See*—

Alben, Frank L.  
Alpert, Daniel.  
Alsing, Carl F.  
Anderson, William B., Haley, and Kelly.  
Armstrong, George C.  
Arnott, Edward G. F., and Dawley.  
Arntzen, Clyde E.  
Ashbaugh, John H.  
Atkinson, William B., Hill, and Barker.  
Auxier, Robert W., Wachter, and Schuman.  
Bailey, Francis T.  
Baker, Benjamin P.  
Baker, Benjamin P., and Dickinson.  
Baker, Benjamin P., and Webb.  
Barnsteiner, Alfons.  
Barnsteiner, Alfons, and Lockwood.  
Baudry, René A.  
Baudry, René A., and Criner.  
Baylis, Albert H.  
Beck, Edward F. W., and Ferguson.  
Berberich, Leo J.  
Berkey, William E., and Lamphere.  
Bernhardt, Jacob.  
Bichsel, Harry J.  
Bingenheimer, Melvin.  
Blackburn, John L.  
Blosser, Charles R., and Clark.  
Borden, Joseph H.  
Borzin, John J., and Moran.  
Bostwick, Myron A.  
Boyd, Robert C.  
Boyer, John L., and Rose.  
Boykin, John R.  
Brace, Porter H.  
Braun, Herman J.  
Breckenridge, Frank.  
Broadbent, John H.  
Broadbent, John H., and Lofgren.  
Broglie, Francis J.  
Brown, Arthur R.  
Brown, Charles R.  
Bruckman, William C.  
Buchanan, Leslie B. M.  
Buchanan, Royal S.  
Buritz, Robert S., and Williams.  
Cassen, Benedict.  
Cassen, Benedict, and Baker.  
Cherry, Sidney J., and Werner.  
Christensen, Paul B.  
Clark, Earl K.  
Clark, Earl K., and Wojcik.  
Clifford, David G.  
Cook, Willard G.  
Cox, Joseph H., Hopper and Colaiaco.  
Crabbs, Herbert J.  
Criner, Harry E., and Rose.  
Cumming, James M.  
Dailey, Hampton J.  
Dailey, Hampton J., and Scullin.  
Davis, Arthur A.  
Denault, Clinton L.  
Derr, Willard A.  
Dorfman, Hiller D., and Freese.  
Douglas, George R.  
Easley, Gilbert J.  
Eberhart, Arthur H.  
Edwards, Hilbert E.  
Ehrgott, Karl.  
Ellis, Delbert, and Alspach.  
Ellis, Delbert, and Taylor.  
Elmer, William B.  
Elsey, Howard M.  
Erbe, John R.  
Evans, George S.  
Exner, Donald W.  
Findley, Russell L., and Wrathall.  
Fischer, Eugene H.  
Fitzgerald, Edward B.  
Fletcher, Paul E.  
Formhals, William H., and Fennell.  
Formhals, William H., and Hanville.  
Formhals, William H., and King.  
Fountain, Lawrence L.  
Fraser, Walter G., Jr., and Taylor.  
Freeman, George A., and Conlin.  
Freeman, Keith L.  
Frisch, Erling.  
Geiselman, Ralph A., and Houck.  
Godsey, Frank W., Jr.  
Godwin, Gurney L.  
Goldsborough, Shirley L.  
Goldsborough, Shirley L., and Lensner.  
Goldsborough, Shirley L., and Sleeper.  
Graybill, Howard W.  
Graybrook, Herbert W.  
Greenbowe, James W., Laidig, and Kelly.  
Griscom, Samuel B.  
Guidosh, John A.  
Gustin, Daniel S.  
Gustin, Daniel S., and Wainio.  
Hagen, Harold F., and Bartlett.  
Hague, Floyd T.  
Hall, Erik H.  
Hall, Roy D., and Ramage.  
Hanna, Clinton R., and Lynn.  
Hanna, Clinton R., and Wolfert.  
Hanna, Raymond P., and Rosen.  
Hanna, Raymond P., and Willby.  
Harder, Edwin L.  
Harder, Edwin L., and Rustebakke.  
Harding, William R., Kimball, and Moore.  
Harris, Walter R.  
Harris, Walter R., and Baker.  
Harris, Walter R., and Linsenmeyer.  
Hartwig, Edward C.  
Hemming, Harold, and Keep.  
Hibbard, Lloyd J.  
Hill, Charles F., and Foster.  
Hill, Lawrence R.  
Hill, Lawrence R., and Keyes.  
Hipple, John A., Jr.  
Hodnette, John K.  
Hornbarger, Earl H.  
Horn, Merl E., Lindstrom, and Florschutz.  
Houck, James P., and Shallcross.  
Hudson, Frank.  
Hutchison, William M., and Kerr.  
Immel, Ralph B.  
Jacobsen, Aage M.  
Jenkins, Charles F.  
Jenkins, Charles F., and Rambo.  
Jenks, Harold C.  
Jennings, Oliver S.  
Jeppesen, Kresten L., and Keays.  
Johns, Francis J.  
Johns, Francis J., and Fockler.  
Johns, Francis J., and Howard.  
Johnson, John L.  
Jones, Maurice F.  
Jones, Robert L.  
Jungk, Herbert G.  
Kalischer, Milton.  
Keep, Charles R.  
King, George E.  
King, George E., and Formhals.  
Koch, Gustav H.  
Koch, Gustav H., and Egerton.  
Kovalsky, Joseph F.



Westinghouse Electric Corporation, assignee: *See*—Continued.

Kuhn, Edmund W.  
Laffoon, Carthrae M., Jr.  
Land, Chester B.  
Langer, Bernard F.  
Leeds, Winthrop M.  
Lenehan, Bernard E.  
Lenschner, Herbert W., and Chapman.  
Lentz, Leon, Jr.  
Leonard, Merrill G.  
Leonard, Merrill G., and Guidosh.  
Levy, Cyril C.  
Lilliendahl, William C.  
Lincoln, Roland L.  
Lindbeck, Simon L.  
Little, Donald G., and Hooper.  
Longini, Richard L.  
Ludwig, Leon R., Webb, and Baker.  
Lum, John C.  
Lum, John C., and Jerstedt.  
Lynn, Clarence.  
Lynn, Clarence, and Hoover.  
Lynn, Lawrence B.  
Madsen, Carl J.  
Mahnke, Kurt.  
Mahoney, John R., and Bichsel.  
Mako, Dave, and George.  
Marbury, Ralph E.  
Marsh, Francis E., and Casanova.  
Marshall, Donald E.  
Mason, Ruric C.  
McCann, Gilbert D., and Criner.  
McClellan, Cyril E.  
McGowan, Michael E.  
McGowan, Michael E., and Umbach.  
Meyer, Charles A., and Bradbury.  
Meyer, Charles A., and Redding.  
Mikina, Stanley J.  
Moberly, Lawrence E.  
Morse, Rupert O.  
Morton, Eldred O.  
Mosshart, Donald J.  
Mueller, Erich O.  
Murcek, Slavo J., and Price.  
Nagel, George W.  
Naymik, Joseph.  
Newcombe, Frank A.  
Newhouse, Simeon E., and Eunson.  
Newman, William J.  
Okress, Ernest C.  
Okress, Ernest C., and Nelson.  
Packer, Lewis C.  
Pakala, William E.  
Pakala, William E., and Myers.  
Peck, Henry L.  
Pegg, Edward H. R.  
Penney, Gaylord W.  
Pennow, Willis A.  
Peterson, Alfred J. A., and Gard.  
Pierce, Lawrence.  
Pierson, Paul R., and Sinclair.  
Pollard, Ernest I.  
Powell, Charles S.  
Price, George E.  
Puchlowski, Konstanty P.  
Putman, Henry V., and Leonard.  
Quitter, John P.  
Rawlins, Herbert L., and Wallace.  
Rebuffoni, Martin.  
Reiber, Eugene D.  
Reilly, Jack E.  
Retherford, Robert C.  
Retherford, Robert C., and Rast.  
Rhicard, Percy E.  
Robertson, Andrew W.  
Rose, Herbert A.  
Samzelius, John W.  
Santini, Danilo.  
Santini, Danilo, and Nelson.  
Schaelchlin, Walter.  
Schaelchlin, Walter, and Ellis.  
Schaelchlin, Walter, and Mahnke.  
Schneider, Stanley S., and Kinsman.  
Schneider, William, and Marcum.  
Schuck, Raymond W.  
Schulman, Earl L.  
Scullin, Carl H.  
Semar, Harold W.  
Shafer, Homer J.  
Sheaks, Carl T., and Sansonetti.  
Slepian, Joseph.  
Slack, Charles M.  
Smith, Keith V.  
Smith, Walter H.  
Snyder, Frederick D.  
Soffel, William F.  
Sonnemann, William K.  
Stadum, Clarence B.  
Sterrett, Charles C.  
Stokes, George A.  
Strong, Robert M.  
Talcott, Frederick L., Jr.  
Taliaferro, William R.

Westinghouse Electric Corporation, assignee: *See*—Continued.

Tanner, Elo C.  
Tashjian, David R.  
Taylor, Charles H.  
Taylor, Owen L., and Ellis.  
Thomas, Phillips.  
Thompson, Albert S.  
Thompson, Joseph K.  
Tobey, Raymond E.  
Tubbs, Lester G.  
Tull, Robert H., and Wegman.  
Valentine, Carroll E.  
Van Sickle, Roswell C.  
Van Sickle, Roswell C., Baker, and Hall.  
Van Sickle, Roswell C., Friedrich, and Fry.  
Veinott, Cyril G.  
Von Mehren, Oswald, and Baker.  
Wainio, Albert W.  
Wallace, James M., and Crabbs.  
Walley, Omar C.  
Watrous, Ward W., Jr.  
Werner, Leo C.  
West, Charles P.  
Weybrew, Thelbert L.  
White, John E.  
Whittaker, Charles C.  
Wickerham, William R.  
Wilcox, Howard M., Schrameck, and Webb.  
Wilcox, Howard M., and Leitzel.  
Wimpy, Edgar K., and Werner.  
Wiseman, Woodrow W., and Terry.  
Wolfert, Edward R., and Broadbent.  
Wortman, Herman B.  
Zelinka, Wenzel.  
Westinghouse Electric & Manufacturing Company, assignee: *See*—  
Eigenberger, Elroy I.  
Westman, Sydney E., Los Angeles, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Electric bushing. 2,422,379; June 17.  
West Michigan Steel Foundry Company, assignee: *See*—  
Seyferth, Carl G.  
Weston, Arthur W., and W. H. Hoffman, Waukegan, assignors to Abbott Laboratories, Inc., North Chicago, Ill. Carbalkoxylation of phenylacetates. 2,419,865; Apr. 29.  
Weston Electrical Instrument Corporation, assignee: *See*—  
Lamb, Anthony H.  
Weston, Jeffrey D.: *See*—  
Earp, Charles W., and Weston.  
Westover, Claude O., Orlando, Fla. Pack stand. 2,420,805; May 20.  
Westvaco Chlorine Products Corporation, assignee: *See*—  
Aitchison, Adam G.  
Low, Frank S.  
Plueddeman, Edwin P., and Rathman.  
West Virginia Pulp and Paper Company, assignee: *See*—  
Pollak, Arthur, Chapman, and Hastings.  
Rawling, Francis G.  
Wetherill, Francis M., Philadelphia, Pa. Fluid motor. 2,418,439; Apr. 1.  
Wetsel, Carlton: *See*—  
Smith, Elmer L., and Wetsel.  
Wetzel, George W., Macomb, Ill. Scaffolding. 2,414,078; Jan. 7.  
Wetzler, Max, Long Island City, N. Y. Clamping device for drill presses and the like. 2,430,900; Nov. 18.  
Weyandt, Carl S., Indiana, Pa. Internal-combustion percussion tool. 2,433,007; Dec. 23.  
Weyant, Romer G., Elkhart, assignor to Superior Industries, Incorporated, Goshen, Ind. Device for molding of veneer structures. 2,417,226; Mar. 11.  
Weybrew, Thelbert L., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system for series-parallel motor operation. 2,426,075; Aug. 19.  
Weyl, Bernard A., Dormont, Pa. Match. 2,432,220; Dec. 9.  
Whalen, Lester J., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Bending apparatus. 2,414,681; Jan. 21.  
Whaley, Fred R., and E. O. Brimm, Kenmore, N. Y., assignors to The Linde Air Products Company. Chemical contact mass, production thereof, and producing oxygen therewith. 2,427,757; Sept. 23.  
Whaley, Thomas H., Bartlesville, Okla., assignor to Phillips Petroleum Company. Fractionation apparatus. 2,416,724; Mar. 4.  
Whaley, Winfred W., Greensboro, N. C. Toy kite. 2,431,289; Nov. 18.  
Wham, Ralph E.: *See*—  
Walker, Isaac J., Wham, and Turbeville.  
Whann, Jesse P., Los Angeles, assignor to The Garrett Corporation, Aircsearch Manufacturing Company division, Ingelwood, Calif. Shutter control. 2,432,186; Dec. 9.  
Whann, Jesse P., and N. C. Harris, Los Angeles, assignors to Puett Electrical Starting Gate Corporation, Beverly Hills, Calif. Race starting gate. 2,418,807; Apr. 8.  
Whann, Robert L.: *See*—  
Beach, William I., Whann, and Peterson.



- Wharam, John J., Dearborn, and M. Jovanovich, Detroit, assignors to Ford Motor Company, Dearborn, Mich. Concentric steering column gearshift support construction. 2,420,333; May 13.
- Wharton, Floyd W.: *See—*  
King, Robert R., Pack and Wharton.
- Wharton, George C., assignor to Ames Baldwin Wyoming Co., Parkersburg, W. Va. Machine for finishing the handles of shovels. 2,425,290; Aug. 5.
- Wheatley, Edward W.: *See—*  
Moncrieff, Robert W., Sammons, and Wheatley.
- Wheaton Brass Works, assignee: *See—*  
Krone, Howard C., and Meyer.
- Wheaton, Jack M., and J. Hohl, Toledo, Ohio, assignors to Owens-Illinois Glass Company. Packaging granular materials. 2,423,358; July 1.
- Whedon, Kenneth, Jackson, Mich. Automatic variable choke for gun barrels. 2,417,721; Mar. 18.
- Wheeler Instruments Company, assignee: *See—*  
Cohen, Theodore A.
- Wheeler, Benjamin F., Haddonfield, N. J., assignor to Radio Corporation of America. Oscillation generator. 2,414,991; Jan. 28.
- Wheeler, Benjamin F., Haddonfield, N. J., assignor to Radio Corporation of America. Viscous damping system. 2,417,282; Mar. 11.
- Wheeler, Carson M., Montclair, assignor to Federal Telephone and Radio Corporation, Newark, N. J. Filament structure and assembling the same. 2,414,501; Jan. 21.
- Wheeler, Dock R., Shreveport, La. Fire detecting cable. 2,423,537; July 8.
- Wheeler, Donald H.: *See—*  
Cowan, John C., and Wheeler.
- Wheeler, Fred G.: *See—*  
Kuehn, Homer W., and Wheeler.
- Wheeler, Glynn P., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Reclaimed rubber and making same. 2,433,179; Dec. 23.
- Wheeler, Harold A., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Superregenerative receiver. 2,414,992; Jan. 28.
- Wheeler, Harold A., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Wave-signal receiving system. 2,415,316; Feb. 4.
- Wheeler, Harold A., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Superregenerative receiver. 2,415,317; Feb. 4.
- Wheeler, Harold A., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Wave-signal receiver arrangement. 2,415,318; Feb. 4.
- Wheeler, Harold A., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Receiver-transmitting arrangement. 2,415,667; Feb. 11.
- Wheeler, Harold A., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Antenna structure. 2,416,246; Feb. 18.
- Wheeler, Harold A., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Balanced to unbalanced circuit connector. 2,417,895; Mar. 25.
- Wheeler, Harold A., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Gain control system for pulse modulation receivers. 2,421,136; May 27.
- Wheeler, Harold A., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Transmission line. 2,421,137; May 27.
- Wheeler, Harold A., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Wave signal translating arrangement. 2,421,138; May 27.
- Wheeler, Harold A., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Wave-signal antenna. 2,425,585; Aug. 12.
- Wheeler, Harold A., Great Neck, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Wave-signal antenna. 2,432,057; Dec. 2.
- Wheeler, John N.: *See—*  
Dickinson, Arthur H., and Wheeler.
- Wheeler, Larry M.: *See—*  
Kueyer, Rudolph A., and Wheeler.
- Wheeler, Wellington B., Los Angeles, Calif. Gyroscopically controlled motor vehicle. 2,415,056; Jan. 28.
- Wheeler, William R.: *See—*  
Cislak, Francis E., and Wheeler.
- Wheeling Stamping Company, assignee: *See—*  
McGinnis, Archibald B.
- Wheeling Steel Corporation, assignee: *See—*  
Mack, Wayne E.  
Okonski, Theodore S.
- Wheelon, Orville A., Pacific Palisades, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Sheet metal article and forming the same. 2,414,346; Jan. 14.
- Wheelon, Orville A., Pacific Palisades, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Making patterns and forging dies. 2,422,325; June 17.
- Whelan, Roderick J., and R. A. Reich, assignors to The Ohio Nut & Bolt Company, Berea, Ohio. Brazing nut and bolt. 2,426,653; Sept. 2.
- Whempner, Russell H., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Manual control apparatus. 2,420,214; May 6.
- Whenham, Everett L., New York, N. Y. Garment hanger. 2,415,228; Feb. 4.
- Whigam, John B., assignee: *See—*  
Chambers, Edward J.
- Whinnery, John R., Schenectady, N. Y., assignor to General Electric Company. Wave guide system. 2,422,058; June 10.
- Whipple, Jack Van H., New York, N. Y. Drill grinder. 2,426,478; Aug. 26.
- Whipple, Willis Z.: *See—*  
Malcom, Robert L., and Whipple.
- Whitaker, Arthur C., Oakmont, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Separating 1,1,3-trimethylcyclopentane from diisobutylene. 2,415,454; Feb. 11.
- Whitaker, Arthur C., Oakmont, Pa., and W. W. Weinrich, Bartlesville, Okla., assignors to Gulf Research & Development Company, Pittsburgh, Pa. 4,6-di-tertiary-butyl-3-methylcyclohexanol. 2,433,008; Dec. 23.
- Whitaker Cable Corporation, assignee: *See—*  
Whitaker, Jack P.
- Whitaker, Jack P., Kansas City, assignor to Whitaker Cable Corporation, North Kansas City, Mo. Battery connector. 2,422,380; June 17.
- Whitcomb, Arthur J., assignor to Freyn Engineering Company, Chicago, Ill. Volume measuring means for skip loading. 2,415,199; Feb. 4.
- White, Addison H.: *See—*  
Pfann, William G., Scaff, and White.
- White, Charles E., and Ernest Clark, Abington, assignors to Abington Textile Machinery Work, Boston, Mass. Carding machine. 2,428,255; Sept. 30.
- White, Charles H., assignor to Deere & Company, Moline, Ill. Disk harrow and bearing thereof. 2,421,306; May 27.
- White, Clarence B., Montclair, N. J. Flame resistant fabric material. 2,427,997; Sept. 23.
- White, Clarence J., Morton, Ill. Floral rack. 2,430,198; Nov. 4.
- White, Curtice C., Johnsville, Pa., assignor to The Electric Storage Battery Company. Fabric envelope for storage battery plates. 2,420,456; May 13.
- White, Earl G., Hobart, Ind. Limit switch actuator. 2,433,180; Dec. 23.
- White, Ellis R., Albany, assignor to Shell Development Company, San Francisco, Calif. Anticorrosive. 2,423,865; July 15.
- White, Eric L. C., Chiswick, London, assignor to Electric & Musical Industries Limited, Hayes, England. Line amplifier for high-frequency electric signals such as television signals. 2,431,973; Dec. 2.
- White, Fred H., assignor to P. V. White, Chicago, Ill. Angularly adjustable support. 2,433,314; Dec. 23.
- White, Fred L., assignor to The Osgood Company, Marion, Ohio. Portable excavator. 2,420,990; May 20.
- White, Fred L., assignor to The Osgood Company, Marion, Ohio. Portable excavator. 2,420,991; May 20.
- White, George W., Ravenna, Ohio. Stock cutting and burnishing tool. 2,431,654; Nov. 25.
- White, Gifford E., Hempstead, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Fire control system. 2,419,239; Apr. 22.
- White, Gifford E., Hempstead, N. Y., assignor to Sperry Gyroscope Company, Inc. Remote indicator for radio pulse systems. 2,426,654; Sept. 2.
- White, Gifford E., Hempstead, and R. C. Knowles, New York, assignors to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Automatic tracking system. 2,420,334; May 13.
- White, Gilbert E., Milwaukee, Wis. Hose coupling. 2,421,228; May 27.
- White, Harold I., assignor to The American Rolling Mill Company, Middletown, Ohio. Electrolytic bright polishing. 2,424,674; July 29.
- White, Harry B., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,416,786; Mar. 4.
- White, Herbert E., Cleveland Heights, Ohio. Switch. 2,418,384; Apr. 1.
- White, Ira M., Oakland, assignor to The Pelton Water Wheel Company, San Francisco, Calif. Valve. 2,416,787; Mar. 4.
- White, Jack, assignee: *See—*  
DeMar, Michael.
- White, John: *See—*  
Mansfield, Wilfred P., and White.
- White, John A., Jr.: *See—*  
Gurries, Albert G., and White.
- White, John E.: *See—*  
Faris, Harold P., and White.
- White, John E., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Graphite outgassing. 2,424,294; July 22.
- White, John E., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, Pittsburgh, Pa. Mercury vapor tube. 2,431,152; Nov. 18.
- White, John E., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electronic device. 2,431,153; Nov. 18.
- White, John E., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Ignitron. 2,433,181; Dec. 23.



- White, John W., North Hollywood, Calif., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Pressure responsive switch. 2,429,440; Oct. 21.
- White, Joseph, Jackson Heights, N. Y. Chair back adjusting means. 2,427,174; Sept. 9.
- White, Joseph C.: *See*—  
Tuve, Richard L., White, and Luke.
- White Laboratories, Incorporated, assignee: *See*—  
Sondern, Clarence W., and Herbine.
- White, Le Roy, Shillington, assignor to Textile Machine Works, Wyomissing, Pa. Lubricating device. 2,421,738; June 3.
- White, Luster J.: *See*—  
Musser, Rawley H., and White.
- White, Major S., Arlington, Va. Method and apparatus for conducting electrocardiographic examinations. Re. 22,916; Sept. 16.
- White, Martin H., Raleigh, and H. R. Johnson, Durham, N. C. Pressure operated drain valve. 2,418,440; Apr. 1.
- White, Norman G.: *See*—  
Swan, Kenneth C., and White.
- White, Paul V.: *See*—  
Bennett, Charles E., and White.
- White, Pearl V., assignee: *See*—  
White, Fred H.
- White, Percival, Long Ridge, N. Y., assignor to Private Opinions, Inc. Questionnaire recorder. 2,431,784; Dec. 2.
- White, Percy, assignor to T & T Vicars Limited, Earls-town, Newton-le-Willows, England. Coating of articles. 2,424,949; July 29.
- White, Richard J., assignor to American Can Company, New York, N. Y. Container. 2,419,616; Apr. 29.
- White, Robert G., White Plains, N. Y. Safety shears. 2,430,794; Nov. 11.
- White, Robert H., Jr.: *See*—  
Harvey, Jacquelin E., Jr., White, and Vaughan.
- White, S. S., Dental Manufacturing Company, The, assignee: *See*—  
Uhler, Wilmer P.
- White, Sanford E., Santa Monica, Calif. Portable flashlight. 2,427,890; Sept. 23.
- White Sewing Machine Corporation, assignee: *See*—  
Colegrove, Charles E.  
Hohmann, Richard K.
- White, Sidney Y., Wilmette, assignor to V. S. Johnson, deceased, Chicago, Ill.: A. Thomson, administrator. Lining up uncontrolled tuned radio apparatus. 2,422,381; June 17.
- White, Stanley B., Dayton, Ohio. Direction-controlling apparatus. 2,413,739; Jan. 7.
- White, Stanley B., Dayton, Ohio. Modulated radio pulse remote control system. 2,420,693; May 20.
- White, Theodore R., Brooklyn, N. Y. Railroad track switch position indicator system and car actuated circuit controller therefor. 2,414,079; Jan. 7.
- White, Walter T.: *See*—  
Knowles, Richard C., White, and Harris.
- White, Wayne E., Plum Township, Allegheny County, Pa., assignor to Aluminum Company of America. Production of dihydroxyfluoroboric acid. 2,429,147; Oct. 14.
- White, Wayne E., Plum Township, Allegheny County, assignor to Aluminum Company of America, Pittsburgh, Pa. Cleaning aluminum. 2,431,595; Nov. 25.
- White, Wiley L., Calwa City, Calif. Train order holding device. 2,426,850; Sept. 2.
- White, Wilfrid G., Waban, Mass. Magnetic compass. 2,428,346; Sept. 30.
- White, William C., Schenectady, N. Y., assignor to General Electric Company. Electric discharge device. 2,424,526; July 22.
- White, William D., and G. W. Graff, assignors to Wayne Knitting Mills, Fort Wayne, Ind. Mechanism for the formation of breather openings in knitted stocking fabrics. 2,421,473; June 3.
- White, William E., Bethlehem, Pa., assignor to Bethlehem Steel Company. Hinged road mat. 2,417,578; Mar. 18.
- Whitford, Alexander W., New York, N. Y. Toe shield. 2,423,538; July 8.
- Whitford, Alexander W., New York, N. Y. Pad retaining device. 2,426,758; Sept. 2.
- Whitehall Machine and Tools Limited, assignee: *See*—  
Dorner, Frank H. C.
- Whitehead, Charles R.: *See*—  
Barrett, Charles D., and Whitehead.
- Whitehead, George W., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Vinyl resin molding composition. 2,415,319; Feb. 4.
- Whitehead, Joshua H., San Francisco, Calif. Cover for golf club heads. 2,417,336; Mar. 11.
- Whitehead & Kales Company, assignee: *See*—  
Huebshman, Paul J.
- Whitehead, Richard H., New Haven, Conn. Setting time fuses and tool therefor. 2,419,102; Apr. 15.
- Whitehead, Richard H., New Haven, Conn. Hair spring assembly. 2,419,103; Apr. 15.
- Whitehead, Richard H., New Haven, Conn. Regulating mechanism for time fuses. 2,430,628; Nov. 11.
- Whitehead, William, Rye, N. Y., assignor to Celanese Corporation of America. Cleaning highly polished glass surfaces with completely saponified cellulose ester textile material. 2,428,443; Oct. 7.
- Whitehead, William A., Preston, England, assignor to The Goss Printing Press Company, Chicago, Ill. Printing press. 2,425,167; Aug. 5.
- Whithill, Lynwood N.: *See*—  
French, Frederic A., and Whitehill.
- Whithill, Lynwood N., Berkeley, and E. C. Shokal, Oakland, assignors to Shell Development Company, San Francisco, Calif. Polymerizable esters and polymers thereof. 2,427,640; Sept. 16.
- Whithouse, Barbara, Birmingham, England. Pivoted target member. 2,427,434; Sept. 16.
- Whiteley, James M., Jr., Aruba, Curacao, Dutch West Indies, and C. S. Lynch, Fanwood, N. J., assignors to Standard Oil Development Company. Catalytic isomerization process. 2,433,079; Dec. 23.
- Whitener, Ernest K., assignor to Cocker Machine and Foundry Company, Gastonia, N. C. Adjustable yarn guide. 2,427,827; Sept. 23.
- Whitesell, John C., Jr., Narberth, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Tank, especially for vehicles. 2,417,337; Mar. 11.
- Whitesell, Robert O., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Constant voltage rectifier power supply. 2,430,381; Nov. 4.
- Whitfield, Eric H.: *See*—  
Robbie, Norman F., and Whitfield.
- Whitford, Alfred W., Watsonstown, Pa. Roasting copperas. 2,433,498; Dec. 30.
- Whitford, Ralph G.: *See*—  
Madden, George G., and Whitford.
- Whitin, Herbert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Brake for Axminster loom weft needles. 2,429,006; Oct. 14.
- Whitin Machine Works, assignee: *See*—  
Stuart, Henry B.  
Theiler, Hans J.  
Watts, Roger B.
- Whiting, Carter S., Tarzana, Calif. Antitorque means for helicopters. 2,433,251; Dec. 23.
- Whiting, John A., Kansas City, Mo., assignor to Armour and Company, Chicago, Ill. Anthelmintic compositions and processes of preparing same. 2,428,444; Oct. 7.
- Whiting, John G., Chicago, Ill. Light projector. 2,415,120; Feb. 4.
- Whiting, Leonard, Mahanomen, Minn. Motorboat speed control. 2,426,805; Sept. 2.
- Whitlock, Gary T., Hendersonville, N. C. Toe closing for socks and the like. 2,423,744; July 8.
- Whitman, Bradley: *See*—  
Schwenk, Erwin, Bloch, and Whitman.
- Whitman, Gerald M., Claymont, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydrogenation of organic compounds using titanium hydride as a catalyst. 2,418,441; Apr. 1.
- Whitman, Gerald M., Claymont, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydrogenating mononuclear aromatic and cycloalkene hydrocarbons. 2,432,843; Dec. 16.
- Whitman, Hyman L., East Bridgewater, Mass., assignor to The B. F. Goodrich Company, New York, N. Y. Corrective insole. 2,427,986; Sept. 23.
- Whitman, Jane: *See*—  
Kackley, Flora M., and Whitman.
- Whitman Publishing Company, assignee: *See*—  
Lewis, William T.
- Whitman, Ross C., Walpole, assignor to The Kendall Company, Boston, Mass. Washable absorbent woven fabric article. 2,413,934; Jan. 7.
- Whitmer, Arnold, Buffalo, assignor to A. G. Evans, Springfield, N. Y. Inflatable crash landing device for airplanes. 2,418,798; Apr. 8.
- Whitner, Thomas C., Elizabeth, N. J., assignor to Chemical Laboratories, Inc. Sericeous noers. 2,417,388; Mar. 11.
- Whitner, Thomas C., Elizabeth, N. J., assignor to Chemical Laboratories, Inc. Treatment of sericeous fibers. 2,417,389; Mar. 11.
- Whitner, Thomas C., Elizabeth, N. J., assignor to Chemical Laboratories, Inc. Drying oil coating compositions. 2,420,390; May 13.
- Whitney Blake Company, The, assignee: *See*—  
Judisch, Carl H.
- Whitney Chain & Mfg. Co., The, assignee: *See*—  
Mullaney, Richard L.
- Whitney, Charles S., Jr.: *See*—  
Marshall, Joseph C., May, and Whitney  
Unkles, Edward H., Roth, and Whitney.
- Whitney, Daniel E.: *See*—  
Gerbino, Stephen R., and Whitney.
- Whitney, F. A., Carriage Company, assignee: *See*—  
Sarasin, Raymond J.  
Shaw, Harold F.
- Whitney, Maurice P., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Mechanical time fuse. 2,421,859; June 10.
- Whitney, Wiley: *See*—  
Busch, Aloysius J., Dehn, and Whitney.
- Whittaker, Charles C., Pittsburgh, Pa. Spring-driven rotatable surgical cutter with hand pressure speed control. 2,419,045; Apr. 15.
- Whittaker, Charles C., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Pneumatic bearing protective system for train pipes and signal lines. 2,420,924; May 20.



- Whittaker, Charles C., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electromagnetic control switch. 2,428,599; Oct. 7.
- Whittaker, Croyden M., Cheadle Hulme, H. A. Thomas, Hazel Grove, C. C. Wilcock, Salford, and C. P. Tattersfield, Audenshaw, near Manchester, assignors to Courtaulds Limited, London, England. Differential drying of resin-impregnated fabric to obtain differential dyeing effects. 2,415,320; Feb. 4.
- Whittaker, James L., Princeton, N. J., assignor to Radio Corporation of America. Electron computing device. 2,420,509; May 13.
- Whitted, John B., Evanston, assignor to Stewart-Warner Corporation, Chicago, Ill. Centrifugal pump. 2,429,114; Oct. 14.
- Whitted, John B., Evanston, assignor to Stewart-Warner Corporation, Chicago, Ill. Electromagnetic motor. 2,430,151; Nov. 4.
- Whitted, John B., and H. Y. Fisher, assignors to Soreng Manufacturing Corporation, Chicago, Ill. Circuit breaker. 2,429,784; Oct. 28.
- Whittier, William A., Glenview, assignor to United States Gypsum Company, Chicago, Ill. Gypsum compositions capable of setting at elevated temperatures. 2,416,035; Feb. 18.
- Whittington, Herbert G.: *See*—Fogleman, Clayton A., and Whittington.
- Whittington, Montee C., Denver, Colo. Carrier for cut flowers and the like. 2,427,246; Sept. 9.
- Whyte, Alexander K., and W. J. Aldis, Toronto, Ontario, Canada, assignors to General Electric Company. Electric switch. 2,424,527; July 22.
- Whyte, Daniel D., Brooklyn, and N. Klein, Laurelton, N. Y.; said Klein assignor to said Whyte. Ornamental fabric for handbags. 2,418,327; Apr. 1.
- Wiatt, Charles G., Gloucester, Va. Emergency ignition circuit breaker. 2,414,912; Jan. 28.
- Wiber, Morris Y., assignee: *See*—Northcutt, Robert E.
- Wiberg, Oscar A., Pinspong, Sweden. Safety device for radial flow elastic fluid turbines. 2,424,378; July 22.
- Wiberg, Walter R., assignor of Boeing Aircraft Company, Seattle, Wash. Flexible duct coupling. 2,419,750; Apr. 29.
- Wichmann, John C. and N. O., Los Angeles, Calif. Gasoline conserving and power increasing attachment. 2,415,619; Feb. 11.
- Wichmann, Nell O.: *See*—Wichmann, John C. and N. O.
- Wichner, Theodore, Los Angeles, Calif. Demountable dental pin assembly. 2,430,795; Nov. 11.
- Wicker, Dan B.: *See*—Spalding, John E., and Wicker.
- Wicker, Dan B., Dunbar, W. Va., assignor to American Viscose Corporation, Wilmington, Del. Rotary disk cutter. 2,426,757; Sept. 2.
- Wickerham, Lynferd J., Peoria, Ill., assignor to United States of America, as represented by Claude R. Wickard, Secretary of Agriculture, and his successors in office. Preparing a diastatic agent. 2,422,455; June 17.
- Wickerham, Lynferd J., Peoria, Ill., assignor to United States of America as represented by the Secretary of Agriculture. Producing ethyl alcohol. 2,431,004; Nov. 18.
- Wickerham, William R., Swissvale, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Alternating current hoist control. Re. 22,923; Sept. 30.
- Wickizer, Gilbert S.: *See*—Peterson, Harold O., and Wickizer.
- Wickizer, Gilbert S., Riverhead, N. Y., assignor to Radio Corporation of America. Weather prediction with ultra high frequency radio waves. 2,421,730; June 3.
- Wickland, Edward T., Roundup, Mont. Page end alarm for typewriters. 2,417,532; Mar. 18.
- Wicks, Gerald C., Buenos Aires, Argentina. Self-adjusting unit for the electric heating of liquids. 2,428,445; Oct. 7.
- Wicks, John, Biloxi, Miss., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,415,057; Jan. 28.
- Wickstrum, Cecil M., Omaha, Nebr. Cream separator. 2,431,596; Nov. 25.
- Wickwire Spencer Aviation Corporation, assignee: *See*—Biermann, David.
- Wickwire Spencer Steel Company, assignee: *See*—Holder, Edward P.
- Wico Electric Company, assignee: *See*—Ellingham, Stanley R., and Brownlee.
- Harmon, Kenneth A.
- Phelon, Russell E.
- Smart, Sidney K., and Brownlee.
- Wiczer, Sol B., Washington, D. C. Refrigerant and method of making. 2,422,709; June 24.
- Wiczer, Sol B., Washington, D. C. Recovering solidified liquids. 2,430,796; Nov. 11.
- Widdowson, Albert H.: *See*—Holmes, Henry H., and Widdowson.
- Widen, Erik, Angby, and G. Lindahl, assignors to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Signaling arrangement in a cable system. 2,418,104; Mar. 25.
- Widener, Ellis, Birmingham, Ala. Sand box. 2,423,955; July 15.
- Widiger, Alexander H., Jr.: *See*—Williams, William H., Holmes, and Widiger.
- Widlaz, Stanley, Hollis, N. Y. Fabric drill. 2,415,545; Feb. 11.
- Widmaier, William, Elizabeth, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Cathode for electron discharge devices. 2,426,255; Aug. 26.
- Widmer, Ernst: *See*—Pudelko, Richard and Widmer.
- Wieczorek, Theophil J., New Britain, Conn. Solution for smoothing zinc surfaces. 2,433,723; Dec. 30.
- Wiedeman, Oscar F.: *See*—Davis, Harold S., and Wiedeman.
- Lichtenwalter, Myrl, and Wiedeman.
- Wiegand, Edwin L., assignor to Orefraction Incorporated, Pittsburgh, Pa. Apparatus for electrostatic separation of material particles. 2,414,993; Jan. 28.
- Wiegand, Edwin L., assignor to Edwin L. Wiegand Company, Pittsburgh, Pa. Electrical heating element. 2,428,899; Oct. 14.
- Wiegand, Edwin L., assignor to Edwin L. Wiegand Company, Pittsburgh, Pa. Electrical heating element. 2,428,900; Oct. 14.
- Wiegand, Edwin L., Company, assignee: *See*—Greer, Millard M.
- Wiegand, Edwin L.
- Wiegand, Francis J., Ridgewood, W. T. Stark, Paterson, and M. R. Rowe, Teaneck, N. J., assignors to Wright Aeronautical Corporation. Continuous fuel injection. 2,430,264; Nov. 4.
- Wiekling, William C.: *See*—Horton, Albert J., and Wiekling.
- Wiekling, William C., Woodhaven, assignor to R. Hoe & Co., Inc., New York, N. Y. Machine synchronizing device. 2,415,321; Feb. 4.
- Wieland, Gerald H., Indianapolis, assignor to Rapid Specialty Company, Noblesville, Ind. Closet gasket. 2,427,431; Sept. 16.
- Wiencke, Herman W., Flushing, N. Y., assignor to Hearing Aid Battery Corp., Newark, N. J. Multicell flat type dry battery. 2,418,442; Apr. 1.
- Wiener, Francis M., Cambridge, Mass., assignor to the United States of America as represented by the Executive Secretary of the Office of Scientific Research and Development. Electroacoustic transducer having damping slots. 2,416,557; Feb. 25.
- Wienke, Emil J., Glen Ellyn, assignor to Motiograph, Chicago, Ill. Film track and aperture unit for projectors. 2,425,217; Aug. 5.
- Wierowski, Karol V., Solvay, N. Y. Collapsible scaffold horse. 2,427,540; Sept. 16.
- Wiesner, Arthur W. A., Cameron, Wis. Jack. 2,418,443; Apr. 1.
- Wiest, Emil G.: *See*—Maynard, Carl W., Jr., and Wiest.
- Wiethorn, Robert N., Cincinnati, Ohio. Belt and buckle. 2,423,668; July 8.
- Wiget, Georg, assignor to Aktiengesellschaft Adolph Saurer, Arbon, Switzerland. Double-lift open-shed dobby. 2,431,597; Nov. 25.
- Wiggin, Rinaldo E., Saugus, and H. G. Swanson, Watertown, Mass., assignors to General Electric Company. Gaging signal device for gyroscopes. 2,419,928; Apr. 29.
- Wiggins, Earl B., deceased; I. L. Wiggins, Los Angeles, Calif., executrix. Valved coupling. 2,425,500; Aug. 12.
- Wiggins, Irene L., executrix: *See*—Wiggins, Earl B.
- Wiggins, John H., Chicago, Ill. Pressure control mechanisms for fluid storage apparatus. 2,415,322; Feb. 4.
- Wiggins, John H., Chicago, Ill. Gaging and sampling apparatus for liquid storage tanks. 2,422,869; June 24.
- Wiggins, John H., Chicago, Ill. Floating roof for liquid storage tanks. 2,425,771; Aug. 19.
- Wiggins, John H., Chicago, Ill. Secondary seal for floating tank roofs. 2,427,171; Sept. 9.
- Wiggins, John H., Chicago, Ill. Floating roof for liquid storage tanks. 2,430,592; Nov. 11.
- Wight, Sedgwick N., and O. S. Field, assignors to General Railway Signal Company, Rochester, N. Y. Airway traffic control system. 2,421,106; May 27.
- Wight, Sedgwick N., O. S. Field, and N. B. Coley, assignors to General Railway Signal Company, Rochester, N. Y. Airplane approach control system. 2,425,973; Aug. 19.
- Wik, Simon N.: *See*—Engs, William, Wik, and Roberts.
- Wikander, Oscar R., Pittsburgh, assignor to Edgewater Steel Company, Oakmont, Pa. Shock absorber. 2,413,740; Jan. 7.
- Wiken, Christy A., and H. V. Boehnke, Milwaukee, Wis., assignors, by mesne assignments, to Rockwell Manufacturing Company, Pittsburgh, Pa. Drill grinder. 2,415,121; Feb. 4.
- Wiken, Christy A., and E. A. Reibig, Milwaukee, Wis., assignors, by mesne assignments, to Rockwell Manufacturing Company, Pittsburgh, Pa. Grinding machine. 2,429,250; Oct. 21.
- Wiken, Christy A., and E. A. Reibig, Milwaukee, Wis., assignors, by mesne assignments, to Rockwell Manufacturing Company, Pittsburgh, Pa. Machine tool. 2,432,058; Dec. 2.



- Wikstrom, Alfred, assignor to Bay Shore Machine Company, Inc., Newcastle, Maine. Cable securing device. 2,431,154; Nov. 18.
- Wilber, Fred B., Kokomo, Ind. Lawn sprinkler. 2,422,059; June 10.
- Wilbert, Martin H., San Bruno, Calif. Saw-tooth grinder. 2,429,300; Oct. 21.
- Wilbur, Donald A., Troy, N. Y., assignor to General Electric Company. High frequency electric discharge device. 2,426,656; Sept. 2.
- Wilbur, Donald A., Troy, and L. D. Roberts, Schenectady, N. Y., assignors to General Electric Company. High-frequency electric discharge device. 2,426,655; Sept. 2.
- Wilburn, Escol S., Vallejo, Calif. Electrical terminal block. 2,428,057; Sept. 30.
- Wilckens, Kurt W., Morrisville, Pa., assignor to Heine-mann Electric Company, Trenton, N. J. Circuit breaker. 2,427,998; Sept. 23.
- Wilcock, Clifford C.: *See*—  
Whittaker, Croyden M., Thomas, Wilcock, and Tattersfield.
- Wilcolater Company, The, assignee: *See*—  
Burch, Lyndon W.  
Graves, Theodore E.
- Wilcox, Doyle E., assignor to Consolidated Engineering Corporation, Pasadena, Calif. Computer. 2,417,098; Mar. 11.
- Wilcox, Earl D., Marlboro, and R. E. Hunt, Northboro, Mass. Micrometer lapping guide. 2,431,598; Nov. 25.
- Wilcox Electric Co., assignee: *See*—  
Bates, Charles H.
- Wilcox, Fred B., Olympia, Wash. Apparatus for taking photographs. 2,419,474; Apr. 22.
- Wilcox, Frederic S., Springfield, Mass. Cooling system for internal-combustion engines. 2,418,385; Apr. 1.
- Wilcox-Gay Corporation, assignee: *See*—  
Gay, Paul S.
- Wilcox, George D., assignor of one-half to F. J. Haynes, Detroit, Mich.; F. C. Cook, executor of F. J. Haynes, deceased; J. C. Cook, executor of G. D. Wilcox, deceased. Auxiliary powered vehicle construction. 2,419,807; Apr. 29.
- Wilcox, George D., assignor of one-half to F. J. Haynes, Detroit, Mich.; F. C. Cook, executor of F. J. Haynes, deceased; J. C. Cook, executor of G. D. Wilcox, deceased. Auxiliary powered vehicle construction. 2,419,929; Apr. 29.
- Wilcox, Howard M., and J. E. Schrameck, Wilkinsburg, and H. J. Webb, Forest Hills, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Automatic and manual reclosing control circuits for polyphase single pole circuit breakers. 2,425,168; Aug. 5.
- Wilcox, Howard M., Wilkinsburg, and R. H. Leltzel, Forest Hills, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,428,482; Oct. 7.
- Wilcox, Isaac L., assignor to Oswego Falls Corporation, Fulton, N. Y. Making containers. 2,415,323; Feb. 4.
- Wilcox, Isaac L., assignor to Oswego Falls Corporation, Fulton, N. Y. Container. 2,425,708; Aug. 12.
- Wilcox, James F.: *See*—  
Muntz, William E., and Wilcox.
- Wilcox, Philip E., New York, N. Y., assignor to The Leavitt Machine Company, Orange, Mass. Valve-seat grinder. 2,416,247; Feb. 18.
- Wilcox, Richard L., assignor to The Waterbury Farrel Foundry & Machine Company, Waterbury, Conn. Making nut blanks. 2,432,844; Dec. 16.
- Wilcox, Thomas W.: *See*—  
Cox, Harold E., and Webster.
- Wilcoxon, Erving M., Centralia, Wash. Shell handling device for trench mortars. 2,427,035; Sept. 9.
- Wilcoxon, Kenneth, assignor to The Visking Corporation, Chicago, Ill. Stripping casings from sausages. 2,424,346; July 22.
- Wilcoxson, Leslie S., Ridgewood, assignor to The Babcock & Wilcox Company, Jersey City, N. J. Method of and apparatus for recovering heat and chemicals. 2,416,462; Feb. 25.
- Wild, Alfred: *See*—  
Busch, Fred, and Wild.
- Wild, Glenn D., assignor of one-half to M. Cissas, Cleveland, Ohio. Machine for finishing metal parts. 2,418,585; Apr. 8.
- Wild, Henry W., assignor to Scovill Manufacturing Company, Waterbury, Conn. Electric socket. 2,424,528; July 22.
- Wilde, Cecil B., Compton, Calif., assignor to Stauffer Chemical Company. Treating alkylation sulfuric acid sludge. 2,418,210; Apr. 1.
- Wilde, Myron T., Wayland, Mich. Locking device for bar knobs. 2,418,147; Apr. 1.
- Wilder, Charlton, Cincinnati, Ohio, assignor of fifty per cent to A. Price, University City, Mo. Coin actuated releasing mechanism. 2,429,148; Oct. 14.
- Wilder, Frank W.: *See*—  
Scribner, Allison K., and Wilder.
- Wilder, Raymond S., Waltham, Mass. Illuminating unit for optical projectors. Re. 22,848; Mar. 4.
- Wilder, Richard S., Elkins Park, assignor to Publicker Industries Inc., Philadelphia, Pa. Preparing metaldehyde. 2,426,961; Sept. 2.
- Wilder, Richard S., Elkins Park, and A. A. Dolnick, assignors to Publicker Commercial Alcohol Company, Philadelphia, Pa. Unsaturated ketone epoxides and producing same. 2,431,718; Dec. 2.
- Wildermann, Emile M., administratrix: *See*—  
Wildermann, Rudolf.
- Wildermann, Rudolf, Mount Vernon, N. Y.; E. M. Wildermann, administratrix of said R. Wildermann, deceased. Control gearing and lever. 2,431,290; Nov. 18.
- Wildermuth, James A., Little Falls, N. Y., assignor to Cherry-Burrell Corporation, Wilmington, Del. Heating system. 2,414,623; Jan. 21.
- Wilders, George, Kegworth, and J. E. Lynam, Mapperley, assignors to William Cotton Limited, Loughborough, England. Patterning mechanism of knitting machines. 2,431,218; Nov. 18.
- Wildhaber, Ernest, Brighton, assignor to Gleason Works, Rochester, N. Y. Varying leverage gears. 2,422,326; June 17.
- Wildhaber, Ernest, Brighton, assignor to Gleason Works, Rochester, N. Y. Producing clutches. 2,427,641; Sept. 16.
- Wildhaber, Ernest, Brighton, assignor to Gleason Works, Rochester, N. Y. Face clutch. 2,429,284; Oct. 21.
- Wildhaber, Ernest, Brighton, assignor to Gleason Works, Rochester, N. Y. Axially engaging positive clutch. 2,431,785; Dec. 2.
- Wilding, Stanley L., Fazakerley, Liverpool, England. Footwear. 2,430,199; Nov. 4.
- Wildman, Benjamin H., assignor of one-half to C. L. Reynolds and R. W. Beach, Seattle, Wash. Photography system. 2,419,978; May 6.
- Wildt and Company Limited, assignee: *See*—  
Holmes, Henry H., and Widdowson.
- Wilen, Charles H., Brooklyn, N. Y. Swimming tail. 2,423,571; July 8.
- Wiler, Edward: *See*—  
Sager, Irving, and Wiler.
- Wiler, Edward M., Belmar, N. J., and R. R. Hallen, Fort Schuyler, N. Y. Rotary spark gap. 2,433,009; Dec. 23.
- Wiley, Averill J., Appleton, Wis. Manufacture of fuel gas from pulp mill wastes. 2,429,589; Oct. 21.
- Wiley, Fred E., assignor to Plax Corporation, Hartford, Conn. Prevention of crazing of flash heated shapes of polystyrene. 2,425,501; Aug. 12.
- Wiley, Lee M., assignor of one-half to Julian T. Lett, Marion, Ind. Expanding forming punch. 2,415,925; Feb. 18.
- Wiley, Lee M., assignor of one-half to J. T. Lett, Marion, Ind. Stacking cups and container for same. 2,420,215; May 6.
- Wiley, Lee M., assignor to one-third to J. T. Lett, and one-third to R. B. Wiley, Marion, Ind. Sheet pulp container dryer, etc. 2,427,036; Sept. 9.
- Wiley, Max R., Wichita, Kans. Clothing guard for office furniture. 2,417,961; Mar. 25.
- Wiley, R. & W., Inc., assignee: *See*—  
Alderman, Harold B.
- Wiley, Reeley B., assignee, et al.: *See*—  
Wiley, Lee M.
- Wiley, Richard H., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Diazonium fluosilicates. 2,423,359; July 1.
- Wiley, Richard H., Lancaster Village, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymers of alpha-methylene cyclic acetals. 2,432,601; Dec. 16.
- Wiley, Rolland P., Kansas City, Mo. Flush tank valve. 2,430,152; Nov. 4.
- Wiley, Thomas R., Saron, Wis. Potato mold. 2,431,530; Nov. 25.
- Wilfert, Karl, Sindelfingen, and B. Barényi, Boblinger, Germany; vested in the Attornei General of the United States. Springing of motor cars with swinging half axles. 2,419,104; Apr. 15.
- Wilhelm, Henry T., Long Island City, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Adjustable compensated standard. 2,430,488; Nov. 11.
- Wilhelm, Kurt E., Providence, R. I., assignor to United States Rubber Company, New York, N. Y. Controlling thread tension. 2,425,909; Aug. 19.
- Wilhelm, Walter J.: *See*—  
Gunn, Townsend M., and Wilhelm.
- Wilhelmy, Lincoln E., Manitowoc, Wis. Fluid clutch for use in automatic transmissions. 2,427,432; Sept. 16.
- Wilkerson, Jefferson R.: *See*—  
Frische, Carl A., Halpert, and Wilkerson.
- Wilkes, Wesley H., assignor to Boeing Aircraft Company, Seattle, Wash. Flare releasing mechanism. 2,432,640; Dec. 16.
- Wilkin, George W., Jr., administrator: *See*—  
Wilkin, George W.
- Wilkin, George W., Spokane, Wash.; G. W. Wilkin, Jr., administrator of said G. W. Wilkin, deceased. Hydraulic power mechanism. 2,431,719; Dec. 2.
- Wilkins, George A.: *See*—  
Wall, William C., and Wilkins.
- Wilkinson, Donald G.: *See*—  
Collie, Benjamin, Giles, and Wilkinson.
- Wilkinson, George F., Warren Point, N. J. Flashlight. 2,416,558; Feb. 25.
- Wilkinson, Kenneth J. R.: *See*—  
Welch, Douglas F., and Wilkinson.



- Wilkinson, Kenneth J. R., and D. F. Welch, Rugby, and F. H. Clough, Clay Cotton, England, assignors to General Electric Company. Ignition system. 2,427,247; Sept. 9.
- Wilkinson, Michael A., assignor to Stakmore Co. Inc., Owego, N. Y. Folding leg construction. 2,432,266; Dec. 9.
- Wilkinson, Wylie S., Bayard, N. Mex. Pump rod and pipe clamp. 2,417,533; Mar. 18.
- Wilkinson, Wylie S., Bayard, N. Mex. Auto window control. 2,417,534; Mar. 18.
- Wilkoft, Howard M., New York, N. Y. Making ignition harness. 2,433,081; Dec. 23.
- Willard, Cora B., executrix: *See—*
- Willard, Waldo W.
- Willard, Waldo W., and Crooke.
- Willard, Gerald W., Fanwood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Optical device for testing crystal sections. 2,419,617; Apr. 29.
- Willard Storage Battery Company, assignee: *See—*
- Smyth, John R.
- Willard, Waldo W., deceased, by C. B. Willard, executrix, Schenectady, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Mechanism for indicating azimuthal movement of a periscope. 2,418,799; Apr. 8.
- Willard, Waldo W., deceased, by C. B. Willard, Schenectady, executrix, and R. E. Crooke, Little Neck, assignors to Ford Instrument Company, Inc., Long Island City, N. Y. Apparatus for gunfire control. 2,424,071; July 15.
- Willauer, Earl E., Cranford, and I. P. Jones, Basking Ridge, N. J., assignors to Standard Oil Development Company. Recovery and regeneration of isobutenes. 2,431,005; Nov. 18.
- Willby, Norman H.: *See—*
- Hanna, Raymond P., and Willby.
- Willcox, Frederick P., U. S. Army, Arlington, Va. Drying apparatus for photographic film. 2,414,502; Jan. 21.
- Willcox, Frederick P., U. S. Army, Arlington County, Va. Film holder. 2,431,356; Nov. 25.
- Willcox & Gibbs Sewing Machine Company, assignee: *See—*
- Van Vorst, James H.
- Willenbacher, August, assignor to L. Rosenfeld & Co., Inc., New York, N. Y. Lighting fixture. 2,424,908; July 29.
- Willenberg, Robert L., Detroit, Mich. Runner for wheeled vehicles. 2,429,737; Oct. 28.
- Willett, Leon E.: *See—*
- Smith, Frank R. E., and Willett.
- Willett, Leon E., and M. Seide, assignors to Chamberlin Company of America, Detroit, Mich. Frameless screen. 2,415,200; Feb. 4.
- Willett, William M., assignor to James Manufacturing Company, Fort Atkinson, Wis. Fire alarm system. 2,433,080; Dec. 23.
- Wiley, Grant S., assignor to United States Gypsum Company, Chicago, Ill. Making pressed decorative lignocellulosic products. 2,431,720; Dec. 2.
- Wiley, Marney B., New Orleans, La., assignor to J. R. McDermott & Co., Inc., Houston, Tex. Underwater foundation and erecting the same. 2,429,952; Oct. 28.
- Willgoos, Andrew V. D.: *See—*
- Hobbs, Leonard S., and Willgoos.
- Willgoos, Andrew V. D., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Air cooling for radial engines. 2,426,872; Sept. 2.
- Willgoos, Andrew V. D., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Radial aircraft engine. 2,426,878; Sept. 2.
- Willgoos, Andrew V. D., and A. L. Highberg, West Hartford, assignors to United Aircraft Corporation, East Hartford, Conn. Radial aircraft engine. 2,426,877; Sept. 2.
- Willhauck, Augustus D., Stoneham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Fastening inserting machine. 2,420,290; May 13.
- Williams, Albert J., Jr.: *See—*
- Dern, Frank E., Jr., and Williams.
- Williams, Albert J., Jr., R. E. Tarpley, and N. C. Johnson, assignors to Leeds and Northrup Company, Philadelphia, Pa. Multiple contact switch. 2,416,972; Mar. 4.
- Williams, Albert J., Jr., Philadelphia, and O. B. Tatman, Narberth, assignors to Leeds and Northrup Company, Philadelphia, Pa. Frictional damping means for galvanometers. 2,425,408; Aug. 12.
- Williams, Alfred L. W., Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Fabricating piezoelectric crystal units. 2,414,574; Jan. 21.
- Williams, Alfred L. W., Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Rotatable magnetic reproducing means. 2,424,295; July 22.
- Williams, Alfred O.: *See—*
- Burrows, Robert J., and Williams.
- Williams, Alfred O., Battle Creek, assignor to Clark Equipment Company, Buchanan, Mich. Wheel. 2,418,002; Mar. 25.
- Williams, Alfred O., Battle Creek, assignor to Clark Equipment Company, Buchanan, Mich. Axle generator drive. 2,426,132; Aug. 19.
- Williams, Allison R., Yazoo City, Miss. Land mine exploder device. 2,425,018; Aug. 5.
- Williams, Allison R., Yazoo City, Miss. Line clamp. 2,431,439; Nov. 25.
- Williams, Allison R., Yazoo City, Miss. Amphibian vehicle. 2,432,107; Dec. 9.
- Williams, Arthur: *See—*
- See Theodore S., Tegarden, Williams, and See.
- Williams, Beverly E., assignor to Industrial Patents Corporation, Chicago, Ill. Treatment of carcasses. 2,430,849; Nov. 11.
- Williams, C. K., & Co., assignee: *See—*
- Ayers, Joseph W.
- Van Doorninck, Frederick H.
- Williams, Calvin C., Philadelphia, Pa. Pump. 2,413,935; Jan. 7.
- Williams, Charles W., assignor to Polaroid Corporation, Cambridge, Mass. Viewing visor. 2,423,539; July 8.
- Williams, Chester, Ypsilanti, Mich. Four wheel trailer. 2,417,338; Mar. 11.
- Williams, Clarence B., Grass Valley, Calif. Assembly for eliminating muzzle climb in automatic firearms. 2,414,250; Jan. 14.
- Williams, Clyde E., and A. S. Henderson, Columbus, Ohio, assignors, by mesne assignments, to Henry L. Crowley & Company, Inc. Producing crystalline iron by the hydrogen reduction of ferrous chloride. 2,418,148; Apr. 1.
- Williams, Curtis M., Phoenix, Ariz. Parking meter box display. 2,421,917; June 10.
- Williams Cut Sole Co., assignee: *See—*
- Williams, Parker.
- Williams, David M., Warrensville Heights, assignor to The Arco Company, Cleveland, Ohio. Testing the adhesion of films of coating material. 2,431,974; Dec. 2.
- Williams Drug Sundries, Ltd., assignee: *See—*
- Schonrock, Bernhard.
- Williams, Duncan R.: *See—*
- Anderson, Frank J., and Williams.
- Williams, Edward F., and W. J. Brayden, Maynard, Mass. Machine for fluid treatment of fabric. 2,426,806; Sept. 2.
- Williams, Edwin A., Jr., Lansdowne, and A. H. Powell, Yeadon, Pa., assignors to General Electric Company. Circuit interrupting device. 2,429,860; Oct. 28.
- Williams, Ferd E., Princeton, N. J., assignor to Radio Corporation of America. Reducing reflection from curved glass surfaces. 2,426,541; Aug. 26.
- Williams, Fred D., Jr., assignor to S. Ruben, New Rochelle, N. Y. Making zinc roll anode for primary cells. 2,422,606; June 17.
- Williams, George, assignee, et al.: *See—*
- Ames, Robert G.
- Williams, George L.: *See—*
- Hasbrouck, Augustus, King, Porter, and Williams.
- Williams, George P., Tampa, Fla. Method and camera for obtaining stereoscopic effects. 2,413,808; Jan. 7.
- Williams, George W., assignee, et al.: *See—*
- Ames, Robert G.
- Williams, Gordon M., Dayton, Ohio, assignor to New Wrinkle, Inc., Wilmington, Del. Polymerization nucleus for wrinkling oils. 2,428,901; Oct. 14.
- Williams, Gordon M., assignor to New Wrinkle, Inc., Dayton, Ohio. Polymerization nucleus for wrinkling oils. 2,431,357; Nov. 25.
- Williams, Harry A., Glenside, Pa., assignor to Bendix Aviation Corporation, Teterboro, N. J. Remote indicating flowmeter. 2,422,762; June 24.
- Williams, Helen S., State College, Pa., assignor to Glass Science, Incorporated, New York, N. Y. Staining glass with copper halide vapors. 2,428,600; Oct. 7.
- Williams, Herbert L., Coconut Grove, Fla. Camera film magazine. 2,427,585; Sept. 16.
- Williams, Howard O., Minneapolis, Minn. Multiple V-belt pulley. 2,427,172; Sept. 9.
- Williams, John G., assignor to British Celanese Limited, London, England. Making cellular cellulose derivatives. 2,418,211; Apr. 1.
- Williams, John G., and L. Krause, assignors to British Celanese Limited, London, England. Production of textile materials which are sensitive towards water. 2,417,535; Mar. 18.
- Williams, John R., Schenectady, N. Y., assignor to General Electric Company. Electric power system. 2,416,601; Feb. 25.
- Williams, Joseph, Santa Rosa, Calif. Lever plow. 2,428,188; Sept. 30.
- Williams, Joseph H., Carshalton, A. E. Stenning, Beckenham, and R. H. Stenning, Thorndene, England. Optical apparatus for determining angles. 2,420,951; May 20.
- Williams, Judson, Philadelphia, Pa. Exhaust port assembly. 2,418,741; Apr. 8.
- Williams, Kenneth P., New York, N. Y., assignor, by mesne assignments, to United Mattress Machinery Company, Incorporated. Tufting button. 2,428,601; Oct. 7.
- Williams, Lawrence S., assignor to Toledo Scale Company, Toledo, Ohio. Induction motor speed control. 2,419,431; Apr. 22.
- Williams, Leo C., assignor to Dexter Folder Company, Pearl River, N. Y. Sheet feeding apparatus. 2,430,093; Nov. 4.
- Williams, Leo G., Sr., Latrobe, Pa. Guide roller. 2,430,417; Nov. 4.



- Williams, Lynn A., Jr., Northfield, assignor to Stewart-Warner Corporation, Chicago, Ill. Anti-icing combustion air scoop. 2,417,185; Mar. 11.
- Williams, Lynn A., Jr., Northfield, assignor to Stewart-Warner Corporation, Chicago, Ill. Airplane heater having pressure differential fuel control. 2,427,758; Sept. 23.
- Williams, Lynn A., Jr., Northfield, and H. J. D. McCollum; said Williams assignor to Stewart-Warner Corporation; T. McCollum, executrix of said H. J. D. McCollum, assignor to Stewart-Warner Corporation, Chicago, Ill. Propeller deicer. 2,418,682; Apr. 8.
- Williams, Marguerite R., assignor to Lily of France Corset Company, Inc., New York, N. Y. Girdle. 2,418,242; Apr. 1.
- Williams, Maurice T.: *See*—  
Naeher, Paul, and Williams.
- Williams, Milton F., Jr.: *See*—  
Clemmer, Julius E., and Williams.
- Williams, Neal L.: *See*—  
Burtiz, Robert S., and Williams.
- Williams, Norman D., Chicago, and W. J. Backoff, Elmhurst, assignors to The Pure Oil Company, Chicago, Ill. Stabilized lubricants. Re. 22,849; Mar. 4.
- Williams, Norman D., Chicago, and W. J. Backoff, Elmhurst, assignors to The Pure Oil Company, Chicago, Ill. Heavy-duty motor oil composition. 2,420,274; May 6.
- Williams, Oliver M., St. Louis, Mo. Overhead boxcar door. 2,424,728; July 29.
- Williams, Parker, Weston, assignor to Williams Cut Sole Co., Boston, Mass. Machine for cutting shoe sole taps. 2,421,731; June 3.
- Williams, Paul H., assignor to The National Cash Register Company, Dayton, Ohio. Indian currency computing and recording calculator. 2,433,679; Dec. 30.
- Williams, Paul H., Berkeley, and S. A. Ballard, Oakland, assignors to Shell Development Company, San Francisco, Calif. Dihydropyran compounds and their preparation. 2,422,648; June 17.
- Williams, Philip E., Tulsa, Okla., assignor to Standard Oil Development Company. Soil gas prospecting. 2,414,913; Jan. 28.
- Williams, Rachel D., New Rochelle, N. Y. Holder or pin cushion. 2,426,329; Aug. 26.
- Williams, Ray S., Orrville, Ohio, assignor to J. M. Hopwood, Mount Lebanon, Pa. Power unit. 2,432,705; Dec. 16.
- Williams, Robert A., Denver, Colo. Spanner wrench for waterproof watches. 2,418,999; Apr. 15.
- Williams, Robert L., Newton, assignor, by mesne assignments, to Submarine Signal Company, Boston, Mass. Apparatus for directional signaling. 2,426,657; Sept. 2.
- Williams, Roger J., Austin, Tex., assignor to Research Corporation, New York, N. Y. Production of pantothenic acid and other related growth promoting substances. 2,414,682; Jan. 21.
- Williams, Roscoe D., Louisville, Ky. Manufacture of fluorescent tubing. 2,421,975; June 10.
- Williams, Royal M., Fort Worth, Tex. Air pump to aerate fish containers. 2,429,441; Oct. 21.
- Williams, Stanley V.: *See*—  
Jones, Douglas E., Ransley, Ryde, and Williams.  
Ransley, Charles E., Ryde, and Williams.
- Williams, Thomas J., assignor to Universal Oil Products Company, Chicago, Ill. Isomerization of normal paraffins. 2,419,667; Apr. 29.
- Williams, William C., Santa Monica, Calif. Fixture. 2,423,164; July 1.
- Williams, William H., R. D. Holmes, and H. F. V. Fruehauf, assignors to The Dow Chemical Company, Midland, Mich. Production of aromatic amines. 2,432,551; Dec. 16.
- Williams, William H., R. D. Holmes, and A. H. Widiger, Jr., assignors to The Dow Chemical Company, Midland, Mich. Production of aromatic amines. 2,432,552; Dec. 16.
- Williams, William T.: *See*—  
Lobley, Frederick A., Williams, and Lowell.
- Williams, William W., assignor to Bell Aircraft Corporation, Buffalo, N. Y. Apparatus for dimpling sheet material and preheating the area to be dimpled. 2,424,643; July 29.
- Williamson, Fred E., Chicago, Ill. Phonographic stylus. 2,418,212; Apr. 1.
- Williamson, Hilding V.: *See*—  
Dunham, Aubra R., and Williamson.
- Williamson, Hilding V., assignor, by mesne assignments, to Cardex Corporation, Chicago, Ill. Method and apparatus for extinguishing fires. 2,414,683; Jan. 21.
- Williamson, John A., assignor to The Carborundum Company, Niagara Falls, N. Y. Abrasive manufacture. 2,418,282; Apr. 1.
- Williamson, Marshall I., assignee: *See*—  
Berg, Edward C.
- Williamson, Marshall I., New Haven, Conn., assignor, by mesne assignments, to National Folding Box Company, Incorporated. Multiple blank paperboard container. 2,416,725; Mar. 4.
- Williamson, Marshall I., assignor, by mesne assignments, to National Folding Box Company, Incorporated, New Haven, Conn. Telescopic container. 2,426,911; Sept. 2.
- Williamson, Marshall I., New Haven, Conn., assignor, by mesne assignments, to National Folding Box Company, Incorporated. Dispensing container. 2,431,786; Dec. 2.
- Williamson, Walter L., Glen Iris, Melbourne, Victoria, Australia. Shuttle and bobbin for looms. 2,420,216; May 6.
- Willis, Charles C., Bound Brook, N. J., assignor to Crown Fastener Corporation, Warren, R. I. Awning structure. 2,426,133; Aug. 19.
- Willis, Clodius H., Princeton, N. J., assignor to General Electric Company. Electronic converter. 2,419,466; Apr. 22.
- Willis, Durward E., Tampa, Fla. Vehicle spring suspension. 2,431,440; Nov. 25.
- Willis, Durward E., Tampa, Fla. Slidable anchorage brake and adjustment. 2,431,441; Nov. 25.
- Willis, Floyd, Jr., Dallas, Tex. Vehicle headlight control system. 2,423,278; July 1.
- Willis, Frank B.: *See*—  
Chambers, Allan C., and Willis.
- Willis, Jerry, Santa Ana, Calif. Combination sheath and reel for leaders. 2,422,870; June 24.
- Williston, Samuel H.: *See*—  
Nichols, Charles R., and Williston.
- Willman, Philip E., Chicago, assignor to McGraw Electric Company, Elgin, Ill. Thermal snap-acting switch. 2,415,546; Feb. 11.
- Willoughby, Eric O., London, W. C. 2, assignor to Standard Telephones and Cables Limited, London, England. Antenna system. 2,423,072; June 24.
- Willoughby, Eric O., London, W. C. 2, assignor to Standard Telephones and Cables Limited, London, England. Electromagnetic wave radiator. 2,423,073; June 24.
- Willoughby, Eric O., London, England, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Adjustable aerial. 2,424,598; July 29.
- Willoughby, Eric O., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Balanced transmission line oscillator. 2,429,656; Oct. 28.
- Wills, Walter P., assignor to The Brown Instrument Company, Philadelphia, Pa. Self-balancing potentiometer mechanism. 2,423,540; July 8.
- Willson, Charles T., Canaan, Conn. Traction device for vehicle wheels. 2,423,806; July 8.
- Willson, Corwin D., Flint, Mich. Space enclosure. 2,427,937; Sept. 23.
- Willys-Overland Motors, Inc., assignee: *See*—  
Hedley, Nicholas B., and Stacey.  
Roos, Delmar G.  
Schassberger, Norman A.
- Wilputte Coke Oven Corporation, assignee: *See*—  
Tweit, Olav M.
- Wilske, Julius E., Alton, A. S. Jackson, Wood River, and F. A. McCormick, Alton, Ill., assignors to Owens-Illinois Glass Company. Partition strip assembling machine. 2,429,007; Oct. 14.
- Wilson, Alford D. G., Buckhurst Hill, England. Lining tunnels. 2,419,329; Apr. 22.
- Wilson, Alford D. G., Buckhurst Hill, England. Means for shield tunnelling. 2,425,169; Aug. 5.
- Wilson, Allen B., Evanston, Ill., and K. Stuart; said Wilson assignor, by mesne assignments, to E. R. B. Stuart, Menasha, Wis. Container. 2,416,364; Feb. 25.
- Wilson, Alton B., Kansas City, Mo. Bung and spigot locking equipment for barrels and containers. 2,426,134; Aug. 19.
- Wilson, Andrew C., Frederick, Colo. Side-loading attachment for shaking conveyors. 2,427,080; Sept. 9.
- Wilson, Arch C., West Palm Beach, Fla. Apparatus for discharging insecticide from airplanes. 2,427,987; Sept. 23.
- Wilson, Arthur P.: *See*—  
Pontius, George W., III, and Wilson.
- Wilson Athletic Goods Mfg. Co. Inc., assignee: *See*—  
Link, Richard A.  
Turner, Archibald J.
- Wilson, Austin F., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Apparatus for testing transmission lines. 2,414,624; Jan. 21.
- Wilson, Broadus, Raleigh, N. C. Closed chamber drier including vertically spaced, horizontal roller conveyors and means for positively circulating drying gases upwardly through the conveyors and about the material supported on the conveyors. 2,418,683; Apr. 8.
- Wilson, Burton E., and H. W. Savercool, Greenville, Calif. Log sawing machine. 2,419,751; Apr. 29.
- Wilson, Carroll J.: *See*—  
McNab, John G., Wilson, and Winning.  
Smith, Warren M., and Wilson.
- Wilson, Cecil E., Baton Rouge, assignor to Independent Grinding Wheel Company, New Orleans, La. Abrasive wheel. 2,425,502; Aug. 12.
- Wilson, Chester E., San Pedro, and M. L. Dodge, Long Beach, assignors to Union Oil Company of California, Los Angeles, Calif. Rust preventive composition. 2,421,672; June 3.
- Wilson, Clarence W., Norco, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Coating fibrous surfaces. 2,414,251; Jan. 14.
- Wilson, Clarence W., Norco, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Increasing retention of fillers in papermaking. 2,415,779; Feb. 11.



- Wilson, Clarence W., Norco, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Clarifying liquids. 2,419,930; Apr. 29.
- Wilson, Clarence W., Norco, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Thickening latex. 2,421,107; May 27.
- Wilson, Clarence W., Norco, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Treating latex. 2,421,108; May 27.
- Wilson, Clarence W., Norco, assignor to California Fruit Growers Exchange, Los Angeles, Calif. Alkylated chalcane derivatives and preparing the same. 2,425,291; Aug. 5.
- Wilson & Company, Inc., assignee: *See*—Hodson, George F., and Campbell.
- Wilson, Cyril D., Metuchen, N. J., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymeric cyanine dyestuffs. 2,425,772; Aug. 19.
- Wilson, Cyril D., Metuchen, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cyanine dyes with recurring cyanine nuclei. 2,425,773; Aug. 19.
- Wilson, Cyril D., Metuchen, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymeric dyestuff intermediates and obtaining the same. 2,425,774; Aug. 19.
- Wilson, Dern M., Burbank, Calif. Machine for automatic development of photographic films. 2,431,442; Nov. 25.
- Wilson, Earl L., Los Angeles, Calif. Cigarette smoking pipe. 2,426,542; Aug. 26.
- Wilson, Edward E., assignee: *See*—Ault, John D.
- Wilson, Edward S., Rochester, and W. K. Schnepf, Webster, assignors to Stromberg-Carlson Company, Rochester, N. Y. Teletype communication system. 2,415,718; Feb. 11.
- Wilson, Frederick R.: *See*—Millard, Emmor H., and Wilson.
- Wilson, Galen J.: *See*—Chollar, Robert G., and Wilson.
- Wilson, Galen J., assignor to The National Cash Register Company, Dayton, Ohio. Molding materials. 2,432,221; Dec. 9.
- Wilson, Gardiner C., Lancaster Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Apparatus for forming molded bodies on articles. 2,433,412; Dec. 30.
- Wilson, Glenn W., Jr.: *See*—Shipley, George H., Jr., and Wilson.
- Wilson, Golder P., Alton, Ill., assignor to Olin Industries, Inc. Electric induction heating apparatus for continuously heating a plurality of metal strips. 2,417,029; Mar. 4.
- Wilson, Golder P., Alton, Ill., assignor to Olin Industries, Inc. Electric induction furnace for continuously heating metal strip. 2,427,485; Sept. 16.
- Wilson, Golder P., and L. E. Goff, Alton, Ill., assignors to Olin Industries, Inc. Electric induction furnace for continuously heating metal strips. 2,417,030; Mar. 4.
- Wilson, Harlan L., San Diego, Calif. Toy airplane. 2,420,510; May 13.
- Wilson, Harry, U. S. Army. Quick-release parachute harness. 2,431,358; Nov. 25.
- Wilson, Harry, Dayton, Ohio, and W. P. Yarborough, Staunton, Va. Harness for parachute delivery of ammunition boxes. 2,416,602; Feb. 25.
- Wilson, Harry, Dayton, Ohio, and W. P. Yarborough, Staunton, Va. Quick opening aerial delivery container. 2,416,603; Feb. 25.
- Wilson, Harry C., Beverly Hills, assignor to Robert H. Clark, Los Angeles, Calif. Toolholder. 2,425,409; Aug. 12.
- Wilson, Harry C., Beverly Hills, assignor to Robert H. Clark, Los Angeles, Calif. Combined drill and cutter. 2,429,382; Oct. 21.
- Wilson, Howard R., Lakewood, Ohio, assignor to National Carbon Company, Inc. Treating iron salt solutions. 2,419,240; Apr. 22.
- Wilson, Howard R., Lakewood, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of sulfamic acid. 2,419,618; Apr. 29.
- Wilson, Jack C., Garden City, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Transformer pickoff. 2,419,979; May 6.
- Wilson, John C., assignor to The Thompson Grinder Company, Springfield, Ohio. Rejournaling spindle shafts. 2,415,324; Feb. 4.
- Wilson, John C., assignor to The Thompson Grinder Company, Springfield, Ohio. Machine tool for cutting surfaces of irregular shape. 2,424,347; July 22.
- Wilson, John C., assignor to The Thompson Grinder Company, Springfield, Ohio. Apparatus for shaping workpieces by grinding. 2,426,807; Sept. 2.
- Wilson, John C., Bayside, N. Y., assignor, by mesne assignments, to Hazeltine Research, Inc., Chicago, Ill. Synchronizing-signal separator. 2,416,424; Feb. 25.
- Wilson, John H., Wichita Falls, Tex. Apparatus for molding and handling concrete slabs. 2,416,559; Feb. 25.
- Wilson, John H., Wichita Falls, Tex. Winch. 2,422,274; June 17.
- Wilson, John M.: *See*—Beam, Vilynn O., Wilson and Cyr. Busse, Francis A., and Wilson.
- Wilson, John M., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Transformer. 2,413,897; Jan. 7.
- Wilson, John M., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Condition controlling apparatus. 2,420,578; May 13.
- Wilson, John M., and F. A. Busse, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Condition controlling apparatus. 2,423,541; July 8.
- Wilson, Johnnie S., Cleveland, Ohio. Sweeping broom. 2,420,158; May 6.
- Wilson-Jones Company, assignee: *See*—Segal, Samuel.
- Wilson, Joseph E.: *See*—Loudenslager, Oscar W., and Wilson.
- Wilson, Kelly, Lookout, Okla. Tractor hitch. 2,425,449; Aug. 12.
- Wilson, Matthew W.: *See*—Compton, Jack, and Wilson.
- Wilson, Milo C., and V. D. Davidson, Corpus Christi, Tex.; said Wilson assignor to said Davidson. Cement retainer. 2,421,399; June 3.
- Wilson, Myron S., Lynn, and F. M. Learned, Malden, Mass., assignors to General Electric Company. Electrical measuring instrument. 2,430,317; Nov. 4.
- Wilson, Nina M., assignee: *See*—Wilson, Winfred E.
- Wilson, Paul B., assignor to H. D. Wolgamot, Portland, Ore. Plastic shuttle. 2,423,917; July 15.
- Wilson, Philip J., Jr.: *See*—Wells, Joseph H., and Wilson.
- Wilson, Philip J., Jr., J. H. Wells, and P. M. Sommerfeld, Pittsburgh, Pa., assignors to Carnegie-Illinois Steel Corporation. Removing sulphur compounds from hydrocarbons. 2,427,988; Sept. 23.
- Wilson, Raymond G., Indianapolis, Ind. Milling cutter. 2,426,382; Aug. 26.
- Wilson, Raymond W., deceased, Glendale, Calif.; W. J. Schworer, administrator. Dishwashing machine. Re. 22,936; Nov. 18.
- Wilson, Robert A., University Heights, and B. H. Matthews, Chagrin Falls, assignors to The Lincoln Electric Company, Cleveland, Ohio. Making an electrical contact member containing commingled copper and steel. 2,427,517; Sept. 16.
- Wilson, Roger T.: *See*—Page, Robert M., Distad, and Wilson.
- Wilson, Ronald M., Devon, assignor, by mesne assignments, to William M. Wilson's Sons, Inc., Lansdale, Pa. Dispensing nozzle or faucet. 2,432,641; Dec. 16.
- Wilson, Ryce H., Roseburg, Ore. Chain saw setting, jointing, and filing device. 2,422,871; June 24.
- Wilson Sporting Goods Company, assignee: *See*—Turner, Archibald J.
- Wilson Supply Company, assignee: *See*—Sutton, William J., and Simpson.
- Wilson, Theodore J.: *See*—Gille, Willis H., Field, and Wilson.
- Wilson, Thomas C., Inc., assignee: *See*—Schott, Donald E., and Crepeau.
- Wilson, Tom: *See*—Stevens, Richard H., and Wilson.
- Wilson, Walter G., Martyr Worthy, Winchester, England. Aerial torpedo. 2,419,866; Apr. 29.
- Wilson, Wayne E., Grant Park, Ill. Tool for removing cartridge core tubes in radiators. 2,420,992; May 20.
- Wilson, Wesley, Chicago, Ill. Radiant heat drying construction. 2,418,283; Apr. 1.
- Wilson, William A., Greensburg, assignor to Elliott Company, Jeannette, Pa. Flexible joint for conduits. 2,418,800; Apr. 8.
- Wilson, William F., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Transmission. 2,422,173; June 10.
- Wilson, William S., Haddonfield, N. J., assignor to Radio Corporation of America. Measurement of time between pulses. 2,426,910; Sept. 2.
- Wilson, William W., Dravosburg, Pa. Interchangeable coil stand. 2,414,130; Jan. 14.
- Wilson, Winfred E., Los Angeles, Calif., assignor of one-half to N. M. Wilson. Lock joint. 2,430,200; Nov. 4.
- Wilson, Wylie G., Elizabeth, assignor to Everlasting Valve Company, Jersey City, N. J. Valve. 2,420,849; May 20.
- Wilson's, William M., Sons, Inc., assignee: *See*—Wilson, Ronald M.
- Wilt, James W., Taft, Calif. Ruling guide. 2,415,926; Feb. 18.
- Wilts, Charles H.: *See*—Anderson, Carl D., Leighton, Wilts, and Melzian.
- Wimmer, Lloyd C., Washington, Mo. Switching arrangement for electrical apparatus. 2,424,529; July 22.
- Wimpy, Edgar K., Fairmont Farms, W. Va., and L. C. Werner, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electron discharge device. 2,429,301; Oct. 21.
- Winberg, Ragnar W., New York, N. Y. Bobbin thread controlled signal for sewing machines. 2,420,275; May 6.
- Wincharger Corporation, assignee: *See*—Mironowicz, Vladimir C.
- Winchel, Henry T., North Hollywood, Calif., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Distance measuring apparatus. 2,422,382; June 17.



- Winchel, Henry T., and J. A. Wippert, North Hollywood, Calif., assignors, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Differential voltage measuring circuit. 2,418,284; Apr. 1.
- Wind, Fred V., Montrose, and M. J. Raimondo, assignors to Pacific Clay Products, Los Angeles, Calif. Producing ceramic articles. 2,431,629; Nov. 25.
- Windeler, Alfred S., Baltimore, Md., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Variable resistance standard. 2,417,099; Mar. 11.
- Windsor, Otis A., Santa Monica, Calif. Junction box. 2,414,575; Jan. 21.
- Windsor, Otis A., Santa Monica, Calif. Resilient self-locking electrical connector. 2,430,593; Nov. 11.
- Wine, William E., Toledo, Ohio. Traction device. 2,431,599; Nov. 25.
- Wineman, Wade H., Michigan City, Ind., assignor to Joy Manufacturing Company. Compressor unloader mechanism. 2,420,159; May 6.
- Winer, Ephraim, Baltimore, assignor to The National Plastic Products Company, Odenton, Md. Waterproof cap protector for connector ends of electric cables. 2,428,323; Sept. 30.
- Wing, Harold R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Flexible bobbin receiver for weft replenishing looms. 2,432,845; Dec. 16.
- Wing, Russell T., Excelsior, Minn. Fountain pen. 2,428,863; Oct. 14.
- Wing, Willis G.: *See*—  
Garbarini, Robert F., and Wing.
- Wingate, James C., Jacksonville, Fla. One-man operated combination wire and marine serving mallet. 2,419,241; Apr. 22.
- Wingert, Paul, Montpelier, Ohio. Magazine stove with gas combustion chamber. 2,430,594; Nov. 11.
- Wingfoot Corporation, assignee: *See*—  
Andresen, Gilbert J. C.  
Boord, Cecil E.  
Bricker, Carl E.  
Bruney, William E.  
Carson, Clarence M.  
Clark, Harold H.  
Clifford, Albert M.  
Clifford, Albert M., and Lichty.  
Clifford, Albert M., and Long.  
Cox, Fred W.  
D'Ianni, James D.  
Hardman, Albert F.  
Jones, Lewis H.  
Kolborn, Karl B.  
Lichty, Joy G.  
Long, John R.  
Loudenslager, Oscar W., and Wilson.  
Mallory, Gerald D.  
McMahan, William W.  
Merrill, James A.  
Purdy, John F.  
Riggs, Herbert E.  
Robinson, Jack D.  
Rogers, Thomas H., Jr., and Vickers.  
Scott, Winfield.  
Sheahan, Daniel E.  
Suloff, Paul D.  
Vincent, Joseph F.  
Young, Foster J.
- Winings, Willie E., Arthur, Ill. Grapple. 2,415,547; Feb. 11.
- Winkeljohn, Thomas H., Wabash, Ind., assignor to The General Tire & Rubber Company, Akron, Ohio. Oil sealing ring. 2,417,390; Mar. 11.
- Winkler, Albert H.: *See*—  
Sutton, Robert W., and Winkler.
- Winkler, Albert H., assignor to Bendix Aviation Corporation, South Bend, Ind. Carburetor. 2,423,059; June 24.
- Winkler, Gunnar, Appelviken, Stockholm, Sweden, assignor to International Standard Electric Corporation, New York, N. Y. Accumulator charging system. 2,423,134; July 1.
- Winkler, Marion R., Hicksville, N. Y., assignor to J. P. Seeburg Corporation, Chicago, Ill. Selector for automatic phonographs. 2,416,463; Feb. 25.
- Winkler, Marion R., Milwaukee, Wis., assignor to J. P. Seeburg Corporation, Chicago, Ill. Automatic phonograph. 2,425,974; Aug. 19.
- Winlund, Edmond S., Moorestown, N. J., assignor to Radio Corporation of America. Reverberation meter. 2,413,936; Jan. 7.
- Winn, Sidney B., Lapeer, Mich. Tractor-trailer combination and trailer prop. 2,431,531; Nov. 25.
- Winnek, Philip S., Riverside, and R. O. Roblin, Jr., Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Sulfonamido pyrimidines. 2,430,439; Nov. 4.
- Winning, Carl: *See*—  
McNab, John G., Wilson, and Winning.
- Winning, Carl, Westfield, and D. T. Rogers, Plainfield, N. J., assignors to Standard Oil Development Company. Compounded lubricating oil. 2,422,275; June 17.
- Winograd, Harold, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Arc discharge device with entire casing shielded from the arc. 2,427,999; Sept. 23.
- Winograd, Harold, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Baffle arrangement for vapor electric devices. 2,428,000; Sept. 23.
- Winsker, Herbert: *See*—  
Curry, Robert S., Jr., Horman, Kircher and Winsker.
- Winslow, Nathaniel M., Lakewood, and George W. Heise, Rocky River, Ohio, assignors to National Carbon Company, Inc. Electrolytic processes. 2,427,433; Sept. 16.
- Winslow, Wiley P., Richmond, Calif. Ship construction. 2,423,670; July 8.
- Winslow, William B., assignor to A. Trask, Chicago, Ill. Resilient piston pin bushing. 2,422,327; June 17.
- Winslow, William D., Vineland, N. J. Combined tube and tooth brush holder. 2,423,669; July 8.
- Winslow, Willis M., Wheatridge, Colo. Translating electrical impulses into mechanical force. 2,417,850; Mar. 25.
- Winston, Philip B., Fairfax, Va. Clothes-washing machine. 2,426,851; Sept. 2.
- Winter, John A.: *See*—  
Holmes, John R., Winter, and Schultz.
- Winterbottom, Robert, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparing sulfonamides. 2,414,403; Jan. 14.
- Winterbottom, Ross C., Washington, D. C. Non correspondence alarm for synchros. 2,428,402; Oct. 7.
- Winterfeld, Elsie G., assignor to Three-In-One Doll Corporation, New York, N. Y. Doll. 2,424,785; July 29.
- Winterkamp, Frederick, Youngstown, Ohio, assignor to Carnegie-Illinois Steel Corporation. Slab marking device. 2,418,213; Apr. 1.
- Winters, Raymond, Portland, Oreg. Slat type spring unit. 2,432,361; Dec. 9.
- Winters, Russell H., assignor to The Larsen Company, Green Bay, Wis. Apparatus for peeling root vegetables and fruit. 2,429,785; Oct. 28.
- Winters, Starling, U. S. Army. Electric arc furnace. 2,427,037; Sept. 9.
- Winther, Anthony, Kenosha, Wis., assignor to M. P. Winther, Waukegan, Ill., as trustee. Eddy-current apparatus. 2,428,104; Sept. 30.
- Winther, Martin P., Waukegan, Ill., assignor to Martin P. Winther, as trustee. Squirrel-cage rotor for induction machines. 2,421,860; June 10.
- Winther, Martin P., assignee, trustee: *See*—  
Winther, Anthony.
- Winthrop Chemical Company, Inc., assignee: *See*—  
Albertson, Noel F., and Archer.  
Lesuk, Alex.  
Meiser, Werner.  
Surrey, Alexander R.
- Winthrop-Stearns Inc., assignee: *See*—  
Huber, Wolfgang.  
Suter, Chester M., and Ruddy.
- Wintle, Thomas D. G.: *See*—  
Hill, Walter E., and Wintle.
- Wintringham, Andrews C.: *See*—  
Weiss, Robert H., and Wintringham.
- Wipff, Frank P.: *See*—  
Rhea, Henry E., and Wipff.
- Wippert, James A.: *See*—  
Winchel, Henry T., and Wippert.
- Wirshing, Ralph J., and F. E. Smith, assignors to General Motors Corporation, Detroit, Mich. Drawing reproduction. 2,427,938; Sept. 23.
- Wirth, Emil O., assignor to Bendix Aviation Corporation, South Bend, Ind. Charge forming device. 2,420,925; May 20.
- Wirth, Otto, assignor to Micafil Ltd., Zurich, Switzerland. Wire tensioning device for coil winding machines. 2,419,808; Apr. 29.
- Wirtz, Emery F., assignor to Zwicker Knitting Mills, Appleton, Wis. Ornamented knitted article. 2,427,891; Sept. 23.
- Wischhusen, John E., and G. D. Dolch, Jr., assignors to Thompson Products, Inc., Cleveland, Ohio. Making composite poppet valves. 2,431,853; Dec. 2.
- Wisconsin Alumni Research Foundation, assignee: *See*—  
Cottrell, Frederick G.  
Daniels, Farrington, Hendrickson, and Wolf.  
Stahmann, Mark A., Ikawa, and Link.
- Wise, Edward W.: *See*—  
Elder, Robert J., Domoj, Wise, and Konikoff.
- Wise, John K.: *See*—  
Schmidt, Marvin T., and Wise.
- Wise, Raleigh J., Dunellen, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. System and apparatus for facsimile telegraphy. Re. 22,827; Jan. 7.
- Wise, Raleigh J., Dunellen, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. System and apparatus for facsimile telegraphy. 2,425,019; Aug. 5.
- Wise, Raymond O., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Object locating and distance measuring systems of the pulse reflection type. 2,428,058; Sept. 30.
- Wiseman, Arthur W., and J. W. Walker, assignors to The Sheffield Corporation, Dayton, Ohio. Gauging device. 2,431,099; Nov. 18.
- Wiseman, Walter S., Detroit, Mich., assignor of fifteen per cent to J. P. Aubin and fifteen per cent to E. M. Zahn. Window lifting and lowering device for motor vehicles. 2,422,456; June 17.



- Wiseman, Woodrow W., and G. K. Terry, Springfield, Mass., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Temperature and liquid level control for refrigeration apparatus. 2,431,721; Dec. 2.
- Wisler, John J., Columbia, assignor to Armstrong Cork Company, Lancaster, Pa. Fluid cooled electrode. 2,416,365; Feb. 25.
- Wislicenus, George F., Summit, assignor to Worthington Pump and Machinery Corporation, Harrison, N. J. Centrifugal compressor. 2,422,763; June 24.
- Wislicenus, George F., Summit, assignor to Worthington Pump and Machinery Corporation, Harrison, N. J. Centrifugal machine casing. 2,430,382; Nov. 4.
- Wisniewski, Edmund S.: *See*—  
Schramm, Roy A., and Wisniewski.
- Wiswell, Ozro N., assignor to Swingspout Measure Co., Los Angeles, Calif. Can puncturing spout. 2,421,589; June 3.
- Witchger, Eugene J., assignor to The Lufkin Rule Company, Saginaw, Mich. Measuring tape. Re. 22,908; Aug. 12.
- Witchger, Eugene J., assignor to The Lufkin Rule Company, Saginaw, Mich. Making measuring tapes. 2,426,962; Sept. 2.
- Witherell, Arthur E., Westhampton, Mass. Tractor boom. 2,417,031; Mar. 4.
- Witherow, William P., assignee: *See*—  
Henderson, Albert.
- Witherspoon, Edith R., Englewood, N. J. Sliding closure for receptacles. 2,432,846; Dec. 16.
- Withey, Cuthbert G. G., assignor to International Marine Radio Company, Limited, London, England. Combined radio transmitter and loud-speaker installation. 2,433,413; Dec. 30.
- Withrow, Lloyd L., assignor to General Motors Corporation, Detroit, Mich. Fuel. 2,427,173; Sept. 9.
- Witken, Isadore, Chicago, Ill. Work trestle. 2,431,898; Dec. 2.
- Witkower, Max, Los Angeles, Calif. Brassière. 2,421,448; June 3.
- Witschonke, Charles R.: *See*—  
Kraus, Charles A., and Lehmann, Morris, and Witschonke.
- Witt, Frank, San Francisco, Calif. Cigarette lighting cap. 2,422,277; June 17.
- Witte, Louis J., Beverly Hills, and B. H. Southland, West Los Angeles, assignors to Twentieth Century-Fox Film Corporation, Los Angeles, Calif. Device for making sound effects. 2,425,975; Aug. 19.
- Wittel, Otto, G. J. Koch, and J. L. Boon, assignors to Eastman Kodak Company, Rochester, N. Y. Instrument for testing and developing the stereoscopic acuity of a person's eyes. 2,420,633; May 13.
- Witten, Leslie B.: *See*—  
Shearer, Alexander P., Witten, and Cubin.
- Wittenberg, Edward H., assignor to National Pressure Cooker Company, Eau Claire, Wis. Pressure indicating and release valve. 2,428,483; Oct. 7.
- Wittenberg, Edward H., assignor to National Pressure Cooker Company, Eau Claire, Wis. Pressure release device. 2,429,149; Oct. 14.
- Witter, Philander F., Kentfield, Calif. Automatic jack rafter bevel square. 2,425,075; Aug. 5.
- Witthoff, Charles H., assignor of forty per cent to J. F. Gohn, Detroit, Mich. Ball bearing. 2,433,499; Dec. 30.
- Wittle, Eugene L.: *See*—  
Marker, Russell E., and Wittle.
- Wittlinger, Leonard M., Flint, assignor to General Motors Corporation, Detroit, Mich. Non-sputtering electrode for mercury arc devices. 2,415,548; Feb. 11.
- Wittnibert, Fred R., Chicago, Ill., assignor to Sperry Products, Inc., Hoboken, N. J. Liquid control gear. 2,416,366; Feb. 25.
- Witzel, Ernst, assignor, by mesne assignments, to Milsteel Products Co., Milwaukee, Wis. Separable sadiron assemblage. 2,418,285; Apr. 1.
- Wochner, Henry, assignor to Bear Manufacturing Company, Rock Island, Ill. Camber correction tool. 2,431,291; Nov. 18.
- Wochos, Wenzel M., Jr.: *See*—  
Ensign, George G., Lawson, Schaefer, and Wochos.
- Woerner, William, Greenbrook Township, Middlesex County, N. J. Production jig vise. 2,414,347; Jan. 14.
- Woerner, William, Greenbrook Township, Middlesex County, N. J. Jig vise. 2,414,348; Jan. 14.
- Wohler, Charles E.: *See*—  
Sherwood, Lewis G., and Wohler.
- Wohler, Charles E., and L. G. Sherwood, assignors to Niagara Searchlight Company, Inc., Niagara Falls, N. Y. Electric lantern. 2,420,634; May 13.
- Wohler, Charles E., and Lewis G. Sherwood, assignors to Niagara Searchlight Company, Inc., Niagara Falls, N. Y. Flashlight. 2,425,274; Aug. 5.
- Wohler, Stanley A., Lansdale, assignor to The Budd Company, Philadelphia, Pa. Fairlead. 2,418,105; Mar. 25.
- Wohler, Stanley A., Lansdale, assignor to The Budd Company, Philadelphia, Pa. Sheave-cable connection. 2,418,565; Apr. 8.
- Wohlforth, Walter W., Honolulu, Territory of Hawaii. Elevating device. 2,414,684; Jan. 21.
- Wohlhieter, Joseph W., East Orange, assignor to The Palnut Company, Irvington, N. J. Nut or bolt lock. 2,423,918; July 15.
- Wohlhieter, Joseph W., East Orange, assignor to The Palnut Company, Irvington, N. J. Cable supporting clamp. 2,426,479; Aug. 26.
- Wojcik, Joseph S.: *See*—  
Clark, Earl K., and Wojcik.
- Wolf, Alexander, Houston, Tex., assignor to The Texas Company, New York, N. Y. Scanning device. 2,417,227; Mar. 11.
- Wolf, Alexander, Houston, Tex., assignor to Texaco Development Corporation, New York, N. Y. Seismic exploration with control of directional sensitivity. 2,431,600; Nov. 25.
- Wolf, Alexander, and G. Herzog, Houston, Tex., assignors to The Texas Company, New York, N. Y. Photronic cell circuit. 2,431,899; Dec. 2.
- Wolf, Claude, New York, N. Y. Combination drawing board. 2,414,183; Jan. 14.
- Wolf, Frank M.: *See*—  
Daniels, Farrington, Hendrickson, and Wolf.
- Wolf, George M., Wyandotte, and T. E. Deger, Grosse Ile, Mich., assignors to Sharples Chemicals Inc., Philadelphia, Pa. Vulcanization of rubberlike butadiene-1,3 polymerizates with phenol sulfides. 2,422,156; June 10.
- Wolf, Harry S., Brooklyn, N. Y. Film hanger. 2,429,499; Oct. 21.
- Wolf, Herman J.: *See*—  
Alexanderson, Howard A., and Wolf.
- Wolf, Howard C., Cleveland, Ohio. Collapsible fin assembly. 2,414,844; Jan. 28.
- Wolf, Jack, Baltimore, Md. Brassière. 2,419,514; Apr. 22.
- Wolf, Lester J., Audubon, N. J., assignor to Radio Corporation of America. Antenna system. 2,433,183; Dec. 23.
- Wolf, Morris H., Cleveland, Ohio. Frame construction. 2,416,659; Feb. 25.
- Wolf, Paul C., Pearl River, N. Y. Game apparatus. 2,415,780; Feb. 11.
- Wolf, Robert W.: *See*—  
D'Ardenne, Walter H. D., Meinel, de Vore, and Wolf.
- Wolfe, Charles M., Covina, assignor to Aerojet Engineering Corporation, Azusa, Calif. Pressure operated resistor. 2,431,006; Nov. 18.
- Wolfe, Harry H., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Pilot door latch and operating means. 2,430,901; Nov. 18.
- Wolfe, Martin E., Lomita Park, assignor to Eitel-McCullough, Inc., San Bruno, Calif. Cooler and exhaust tubulation for external anode electron tubes. 2,422,872; June 24.
- Wolfe, Richard C., Middletown, R. I. Expanding hollow fasteners. 2,421,769; June 10.
- Wolfe, Russell G., assignor to Diamond Chain & Manufacturing Company, Indianapolis, Ind. Sprocket or gear. 2,429,008; Oct. 14.
- Wolfe, William H.: *See*—  
Voelker, Helmut, and Wolfe.
- Wolfert, Edward R.: *See*—  
Hanna, Clinton R., and Wolfert.
- Wolfert, Edward R., Springfield, and J. H. Broadbent, Longmeadow, Mass., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Two-phase servomotor system. 2,429,657; Oct. 28.
- Wolf, George, New York, N. Y. Spot setting device. 2,425,586; Aug. 12.
- Wolf, Irving, Princeton, N. J., assignor to Radio Corporation of America. Recorder for radio locators. 2,415,981; Feb. 18.
- Wolf, Irving, Princeton, N. J., assignor to Radio Corporation of America. Frequency-modulated pulse radio locating system. 2,433,804; Dec. 30.
- Wolf, Irving, Haddonfield, N. J., assignor to Radio Corporation of America. Purification of liquids by subjecting successively confined portions of said liquid to supersonic vibrations and simultaneously bubbling oxygen through said confined portions. 2,417,722; Mar. 18.
- Wolf, Irving, Haddonfield, N. J., assignor to Radio Corporation of America. Distance measuring apparatus. 2,422,157; June 10.
- Wolf, Irving, Merchantville, N. J., assignor to Radio Corporation of America. Apparatus for and method of pulse limitation and amplification. 2,423,671; July 8.
- Wolf, Irving, Merchantville, N. J., and J. L. Hathaway, Manhasett, N. Y., assignors to Radio Corporation of America. Electric altimeter. 2,417,032; Mar. 4.
- Wolf, Irving, Princeton, N. J., and J. L. Hathaway, Manhasett, N. Y., assignors to Radio Corporation of America. Altimeter. 2,417,033; Mar. 4.
- Wolf, Irving, and R. C. Sanders, Jr., Haddonfield, N. J., assignors to Radio Corporation of America. Frequency modulated altimeter or distance indicator. 2,419,046; Apr. 15.
- Wolf, Ivan, New York, N. Y. Wrist watch band. 2,415,781; Feb. 11.
- Wolf, Joachim, London, assignor of one-half to H. Dent, London, N. 6, England. Electromagnetic telephone receiver. 2,419,697; Apr. 29.
- Wolf, Marvin A., Elmhurst, Ill., assignor to Zenith Radio Corporation. Control means for sequentially and selectively adjusting variable reactances over a band of frequencies. 2,433,805; Dec. 30.



- Wolff, Otto E., Chestnut Hill, assignor to the Polaroid Corporation, Cambridge, Mass. Clutch mechanism. 2,433,501; Dec. 30.
- Wolfgang, Lozure G., Bluffton, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Phototube multiplier. 2,433,724; Dec. 30.
- Wolfner, William F., II, Asbury Park, N. J., assignor to Photoswitch Incorporated, Cambridge, Mass. Electrical conductivity cell. 2,422,873; June 24.
- Wolfner, William F., II, Methuen, assignor to Photoswitch Incorporated, Cambridge, Mass. Photoelectric control. 2,429,500; Oct. 21.
- Wolfram, John N., assignor to The Parker Appliance Company, Cleveland, Ohio. Flexible coupling. 2,422,158; June 10.
- Wolfram, John N., assignor to The Parker Appliance Company, Cleveland, Ohio. Flexible coupling. 2,423,745; July 8.
- Wolfram, John N., assignor to The Parker Appliance Company, Cleveland, Ohio. Flexible coupling. 2,425,662; Aug. 12.
- Wolfram, John N., assignor to The Parker Appliance Company, Cleveland, Ohio. Coupling for hose. 2,428,189; Sept. 30.
- Wolfson, Henry: *See*—  
McWhirter, Eric M. S., Wolfson, Dunn, and Shepard.
- Wolfson, Henry, and S. C. Shepard, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Attaching wires to metal surfaces. 2,421,047; May 27.
- Wolfson, Henry, and S. C. Shepard, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Sealing of wires into glass. 2,428,059; Sept. 30.
- Wolfson, Kurt, Newton, N. J. Gravure printing processes and devices. 2,431,359; Nov. 25.
- Wolgamot, Harold D., assignee: *See*—  
Wilson, Paul B.
- Wolgen Company, assignee: *See*—  
Ellenberger, Stanley D.
- Wolk, I. Louis: *See*—  
Hudson, Thomas B., Wolk, and Upham.
- Wolk, I. Louis, Bartlesville, Okla., assignor to Phillips Petroleum Company. Preparation of 1,3-butylene glycol. 2,419,515; Apr. 22.
- Wolk, I. Louis, Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of unsaturated nitriles. 2,433,182; Dec. 23.
- Woll, Harry J., Indianapolis, Ind., assignor to Radio Corporation of America. Indicator circuit for signals below audibility. 2,420,404; May 13.
- Woller, Edward E., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Apparatus for forming and assembling inner spring constructions. 2,420,511; May 13.
- Woller, Edward E., Kenosha, Wis., assignor to Simmons Company. Forming and assembling inner spring constructions. 2,420,512; May 13.
- Woller, Edward E., assignor to Simmons Company, Kenosha, Wis. Lounge chair. 2,423,360; July 1.
- Wollett, Ernest S., Washington, D. C. Wrapping machine. 2,414,282; Jan. 14.
- Wollner, Herbert J., Washington, D. C., assignor, by mesne assignments, to Baird Associates, Inc., Cambridge, Mass. Comparison method of determining foreign matter in wool and other material. 2,427,435; Sept. 16.
- Wolsey, Karl V., Medford, Mass. Removable draping and storage frame for luggage. 2,422,511; June 17.
- Wolsey, Willem H.: *See*—  
Goodchild, Frank D., and Wolsey.
- Wolters, Carl F., Kenmore, assignor to Remington Rand Inc., Buffalo, N. Y. Card index cabinet. 2,423,919; July 15.
- Wolthuis, Enno, Cranford, and J. C. Lawler, Westfield, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Preparing glyoxal sulphate. 2,415,397; Feb. 4.
- Womack, James A., Atlanta, Ga. Stand or holder for Christmas trees or the like. 2,419,183; Apr. 15.
- Womble, Glenn F., Danville, and P. Feldmann, Schoolfield, Va., assignors to Dan River Mills, Incorporated. Dyeing fabrics containing cellulosic material and cellulosic material treated with quaternary nitrogen compounds. 2,430,153; Nov. 4.
- Wonders, Alvin W., Gallup, N. Mex. Mechanically actuated fine point eraser. 2,431,156; Nov. 18.
- Wooch, Herbert J., Alhambra, Calif. Centrifugally casting machine. 2,415,620; Feb. 11.
- Wood, Alden O., Parma, assignor to The Ohio Crankshaft Company, Cleveland, Ohio. Heat treating flanges and the like. 2,419,619; Apr. 29.
- Wood, Alden O., Parma, assignor to The Ohio Crankshaft Company, Cleveland, Ohio. Induction heating means for gear teeth. 2,428,303; Sept. 30.
- Wood, Alfred R., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Thread case and carrier therefor for lock-stitch sewing machines. 2,419,698; Apr. 29.
- Wood, Alfred R., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Thread-cutting mechanism for sewing machines. 2,426,543; Aug. 26.
- Wood, Alfred R., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Hook lubrication for sewing machines. 2,431,292; Nov. 18.
- Wood, Alvin P.: *See*—  
Rohner, Leonard V., and Wood.
- Wood, Arthur R., St. Helens, assignor to Pilkington Brothers Limited, Liverpool, England. Treatment of the surface of glass to reduce the proportion of incident light reflected thereby. 2,417,147; Mar. 11.
- Wood, Charles E., Milwaukee, Wis. Pumping apparatus. 2,431,007; Nov. 18.
- Wood, Charles W., Schenectady, N. Y., assignor to General Electric Company. Directional switch operating mechanism. 2,423,361; July 1.
- Wood, Chester F., Stony Brook, N. Y. Cutter bar. 2,422,942; June 24.
- Wood, Clifford: *See*—  
Haddock, Norman H., and Wood.
- Wood, Davis M., Seattle, assignor to Pacific Car and Foundry Company, Renton, Wash. Friction clutch. 2,422,159; June 10.
- Wood, Edward K.: *See*—  
Carnegie, Herbert S., Welsh, and Wood.
- Wood, Frank J.: *See*—  
Leroy, Louis, and Wood.
- Wood, Frank J., Riverside, assignor to Goodman Manufacturing Company, Chicago, Ill. Flying cutting device for cutting strip metal. 2,415,325; Feb. 4.
- Wood, Frank J., Riverside, assignor to Goodman Manufacturing Company, Chicago, Ill. Continuous pickling and cleaning device for metal. 2,418,386; Apr. 1.
- Wood, Frank J., Riverside, assignor to Goodman Manufacturing Company, Chicago, Ill. Loading and feeding apparatus for coils of strip metal. 2,419,699; Apr. 29.
- Wood, Fredric E.: *See*—  
Johnson, Vincent A., and Wood.
- Wood, Fredric E., Oak Park, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Electromagnetic relay. 2,422,764; June 24.
- Wood, Fredric E., Oak Park, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Relay structure. 2,425,275; Aug. 5.
- Wood, Frederick P., assignor to Simplex Paper Corporation, Adrian, Mich. Package. 2,429,538; Oct. 21.
- Wood, Frederick P., assignor to Simplex Paper Corporation, Adrian, Mich. Paper treating method. 2,429,539; Oct. 21.
- Wood, Frederick P., assignor to Simplex Paper Corporation, Adrian, Mich. Creeping paper. 2,429,706; Oct. 28.
- Wood, Fremont E., Gabbs Valley, Nev. Automatic oil pressure safety switch. 2,418,536; Apr. 8.
- Wood, Gar, Industries, Inc., assignee: *See*—  
Bennett, Robert N.  
Penney, Raymond A.
- Wood, Joseph K., assignor to General Spring Corporation, New York, N. Y. Support. 2,420,276; May 6.
- Wood, Joseph K., assignor to General Spring Corporation, New York, N. Y. Spring device. 2,421,822; June 10.
- Wood, Leon G. S., Quincy, Mass., assignor to United States of America, as represented by the Secretary of the Navy. Apparatus for suppressing reverberation. 2,431,854; Dec. 2.
- Wood, Morris B., Newbury, Mass. Electric circuit breaker. 2,418,537; Apr. 8.
- Wood Newspaper Machinery Corporation, assignee: *See*—  
Roesen, Oscar C., and Ricards.  
Tornberg, Isador, and Ricards.
- Wood, Norman F.: *See*—  
King, Ronald D., and Wood.
- Wood, Pauline E., assignee, et al.: *See*—  
Gudie, Ray W.
- Wood, Remsen V., Baltimore, Md. Punch aligning lens. 2,426,480; Aug. 26.
- Wood, Thomas F., Clifton, N. J., assignor to United States Rubber Company, New York, N. Y. Alpha-cyclopropyl acrylonitrile. 2,433,500; Dec. 30.
- Wood, William A., Minneapolis, Minn. Dispenser with rotary conveyor type trap chamber. 2,424,675; July 29.
- Woodall, George T., San Diego, Calif. Bed lamp. 2,428,105; Sept. 30.
- Woodall Industries Incorporated, assignee: *See*—  
Peltier, Walter J., and Diroff.
- Woodberry, John H., and F. W. Hoewischer, Metuchen, N. J. Cartridge feeder and orienter. 2,419,242; Apr. 22.
- Woodberry, John H., and F. W. Hoewischer, U. S. Army, Metuchen, N. J. Cartridge handling and belt filling machine. 2,433,010; Dec. 23.
- Woodbridge, Richard G., III, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating compositions of polyethylene and applying same. 2,429,861; Oct. 28.
- Woodbury, Clifford A.: *See*—  
Fassnacht, Hartwell H., and Woodbury.
- Woodbury, Stephen E., assignor to Reid Brothers Company, Inc., Beverly, Mass. Table reversing mechanism for grinding machines. 2,416,861; Mar. 4.
- Woodbury, Stephen E., assignor to Reid Brothers Company, Inc., Beverly, Mass. Grinding machine. 2,420,024; May 6.



- Wooddell, Charles E.: *See*—  
Van Nimwegen, Garret, von Deenhoff, and Wooddell.
- Woodgate, Percy W., London, England, assignor to Remington Rand Inc., Buffalo, N. Y. Differential line-spacing mechanism for typewriters. 2,423,430; July 1.
- Woodman, Edward, Seattle, Wash. Garment. 2,419,867; Apr. 29.
- Woodruff & Edwards, Inc., assignee: *See*—  
Hazard, William H.
- Woodruff, George M., assignor to The Procter & Gamble Company, Cincinnati, Ohio. Carton for powdery material. 2,429,540; Oct. 21.
- Woodruff, Harold B.: *See*—  
Foster, Jackson W., and Woodruff.
- Woodruff, Howard C., New York, N. Y. Polyalcohols carrying other linkages and preparing the same. 2,424,424; July 22.
- Woodruff, Jesse A.: *See*—  
Woodruff, John M. and J. A.
- Woodruff, John M. and J. A., Tremonton, Utah. Adjustable combustion chamber for internal-combustion engines. 2,433,639; Dec. 30.
- Woodruff, William N.: *See*—  
Herschede, Walter J. and W. F., and Woodruff.
- Woods, Edgar C., Gravesend, assignor to Henley's Tyre & Rubber Company Limited, Dorking, England. Tyre for vehicles. 2,432,847; Dec. 16.
- Woods, Fred D.: *See*—  
Bauer, Hans A., Woods, and Beckstrom.
- Woods, John A., Wilmington, Calif. Templet for pipe systems. 2,431,100; Nov. 18.
- Woods, John A., Wilmington, Calif. Apparatus for fabricating pipe units and the like. 2,431,101; Nov. 18.
- Woods, Robert J., Grand Island, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Multiple gun training mechanism. 2,414,914; Jan. 28.
- Woods, Robert J., Grand Island, assignor to Bell Aircraft Corporation, Buffalo, N. Y. Rotary wing pitch changing mechanism. 2,427,939; Sept. 23.
- Woodson, Thomas T., Bridgeport, Conn., assignor to General Electric Company. Adjustable cam. 2,429,084; Oct. 14.
- Woodson, Thomas T., Bridgeport, Conn., assignor to General Electric Company. Electric switch for clothes washing machines and the like. 2,432,273; Dec. 9.
- Woodward, Bernard, Jr.: *See*—  
Glennon, James B., Wallace, and Woodward.
- Woodward, Charles F.: *See*—  
Neher, Harry T., and Woodward.
- Woodward, Charles F., Abington, C. O. Badgett, Glenside, and P. G. Haines, Philadelphia, Pa., assignors to the United States of America, as represented by the Secretary of Agriculture. Catalytic vapor phase oxidation of nicotine to 3,2'-nicotyrine. 2,432,642; Dec. 16.
- Woodward, Clarence M., Washington, D. C. Combination door latch and handbag shelf. 2,415,122; Feb. 4.
- Woodward, David W., Wilmington, Del., assignor to E. I. du Pont de Nemours & Company. Hydrophilic colloid color formers and photographic elements containing the same. 2,415,381; Feb. 4.
- Woodward, David W., Wilmington, Del., assignor to E. I. du Pont de Nemours & Company. Photographic elements including hydrophilic color formers. 2,415,382; Feb. 4.
- Woodward, David W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Treatment of polymers with acylamides and aldehydes. 2,420,730; May 20.
- Woodward, David W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Naphtholsulfonamidobenzaldehydes and acetals thereof. 2,423,572; July 8.
- Woodward, Foster N.: *See*—  
Peters, Rudolph A., Stocken, Thompson, Woodward, Millidge, and Gasson.
- Woodward Governor Company, assignee: *See*—  
Drake, George F.
- Woodward, Harold E., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Metal complexes of azo dyes and production. 2,416,248; Feb. 18.
- Woodward, Junior G., Princeton, N. J., assignor to Radio Corporation of America. Oscillograph timing circuit. 2,430,154; Nov. 4.
- Woodward, Oakley M., Jr.: *See*—  
Brown, George H., and Woodward.
- Woodward, Oakley M., Jr., Princeton, N. J., assignor to Radio Corporation of America. Variable reactance device for coaxial lines. 2,422,160; June 10.
- Woodward, Robert E.: *See*—  
O'Kelly, Arlie A., Meadow and Woodward.
- Woodward, Truman, Jr., assignee: *See*—  
Genella, Louis J.
- Woodward, William H., Detroit, Mich. Lamp socket mounting. 2,424,009; July 15.
- Woodworth, Laurin D., Youngstown, Ohio, assignor to Carnegie-Illinois Steel Corporation. Sectional hot top. 2,433,803; Dec. 30.
- Woodworth, N. A., Company, assignee: *See*—  
Hohwart, George.
- Woodyard, John R., Garden City, N. Y., assignor to Sperry Gyroscope Company, Inc. Wave separator. 2,423,866; July 15.
- Woodyard, John R., Garden City, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Radio system for distance and velocity measurement. 2,424,263; July 22.
- Woodyard, Livie D. C., Dayton, G. P. Tyler, Cincinnati, and J. G. Kafer, Jr., Batavia, Ohio. Hair drier. 2,430,751; Nov. 11.
- Woofter, Robert A., Emsworth, and R. H. Smith, Avalon, assignors to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Apparatus for oiling sheet metal. 2,429,862; Oct. 28.
- Wooldridge, Dean E., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Radar tracking device. 2,426,658; Sept. 2.
- Wooldridge, Mack, Oakland, Calif., assignor to American Tractor Equipment Corporation. Hoist. 2,425,663; Aug. 12.
- Wooldridge, Mack, Oakland, Calif., assignor to American Tractor Equipment Corporation. Vehicle mounted loader. 2,426,544; Aug. 26.
- Wooldridge Manufacturing Company, assignee: *See*—  
McIntosh, George R.
- Woolery, Horace E., deceased, St. Paul; M. L. Woolery, executrix, assignor to Woolery Machine Company, Minneapolis, Minn. Railway tie treating apparatus. 2,424,202; July 15.
- Woolery Machine Company, assignee: *See*—  
Woolery, Horace E.
- Woolery, Myra L., executrix: *See*—  
Woolery, Horace E.
- Woolf, Don R.: *See*—  
Lampton, Glen T., and Woolf.
- Woolfolk, Arthur R., Wauwatosa, assignor to Line Material Company, South Milwaukee, Wis. Three phase transformer and making the same. 2,431,155; Nov. 18.
- Woolley, Frederick A., assignor to The Midland Motor Cylinder Company Limited, Birmingham, England. Cupola furnace for melting of finely divided metal particles. 2,429,285; Oct. 21.
- Woolley, Leonora W., Rockville Centre, N. Y. Window ventilator. 2,414,426; Jan. 14.
- Woolley, Rew E., Cleveland Heights, Ohio, assignor to Bailey Meter Company. Recorder with magnetically positioned indicator. 2,417,339; Mar. 11.
- Woolrich, Willis R.: *See*—  
Bartlett, Luis H., Woolrich, and Brown.
- Woolsey, Theodore A., Pasadena, assignor to Marman Products Company, Inc., Inglewood, Calif. Hydraulic coupling. 2,426,423; Aug. 26.
- Woolslayer, Homer J., E. A. Campbell, and C. Jenkins, Tulsa, Okla., assignors to Lee C. Moore & Company, Inc., Pittsburgh, Pa. Skeleton mast having legs circular in cross section. 2,420,059; May 6.
- Woolslayer, Homer J., E. A. Campbell, and C. Jenkins, Tulsa, Okla., assignors, by mesne assignments, to Lee C. Moore Corporation, Pittsburgh, Pa. Adjustable mast leg support. 2,429,009; Oct. 14.
- Woolslayer, Homer J., E. A. Campbell, and C. Jenkins, Tulsa, Okla., assignors, by mesne assignments, to Lee C. Moore Corporation, Pittsburgh, Pa. Derrick substructure. 2,429,010; Oct. 14.
- Woolson, Harry T., and M. L. Carpentier, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Multiple engine power plant. 2,419,305; Apr. 22.
- Wooster Brass Company, The, assignee: *See*—  
Housekeeper, Earl J.
- Worcester Film Corporation, assignee: *See*—  
Ramsdell, Floyd A.
- Worcester Polytechnic Institute, assignee: *See*—  
Rawson, Louis W.
- Worden, R. B., Granger, Wash. Stripper reel. 2,428,324; Sept. 30.
- Work, Robert H.: *See*—  
O'Kelly, Arlie A., Work, and Plucker.
- Workman, Everly J.: *See*—  
Bleakney, Robert M., and Workman.
- Workman, Walter J., Chicago, Ill. Window seat. 2,420,635; May 13.
- Workman, William R., Burlingame, Calif. Knock-out service receptacle. 2,432,848; Dec. 16.
- Workshop Associates, Incorporated, assignee: *See*—  
Greene, Gardiner G., and Abraham.
- World Bestos Corp., assignee: *See*—  
Nanfeldt, William.
- Worn, George A., Greenwich, Conn., and E. A. Bertram, Mount Vernon, assignors to The Lumsum Company, New York, N. Y. Heat exchanger. 2,432,362; Dec. 9.
- Worrell, Robert L.: *See*—  
Scranton, Charles J., and Worrell.
- Worth, Weldon, Dayton, Ohio. Temperature control unit. 2,419,980; May 6.
- Worthington, Edward H., East Stroudsburg, Pa. Lawn mower. Re. 2,2845; Feb. 18.
- Worthington, Emory W., assignor to The Goss Printing Press Company, Chicago, Ill. Rotary printing press. 2,425,218; Aug. 5.
- Worthington, Emory W., assignor to The Goss Printing Press Company, Chicago, Ill. Rotary printing press. 2,429,442; Oct. 21.
- Worthington, Emory W., assignor to Goss Printing Press Company, Chicago, Ill. Divided fountain. 2,431,900; Dec. 2.



Worthington Pump and Machinery Corporation, assignee: *See—*

Dorer, Oscar H.  
Evelyn, Steven F.  
Haerberlein, Max.  
Lawler, Matthew M., and Bahler.  
Lifner, Eric J.  
Sebald, Joseph F.  
Wislicenus, George F.  
Zwickl, Joseph R.

Wortman, Herman B., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Local and remote control system for circuit breakers. 2,432,959; Dec. 16.

Wortman, O. W., assignee: *See—*

Sarver, Emmett F.

Wotring, Clark O., McGregor, Minn. Litter fork blade. 2,432,643; Dec. 16.

Wotring, Gaylord H., Fairfield, Conn., assignor to General Electric Company. Faucet attachment. 2,422,060; June 10.

Wragg, William R.: *See—*

Barber, Harry J., and Wragg.

Wrangell, Kjell F., Ottawa, Ontario, Canada. Chain conveyor. 2,417,723; Mar. 18.

Wrathall, Jay R.: *See—*

Findley, Russell L., and Wrathall.

Wreford, Frederick S., Detroit, Mich. Welding cable. 2,433,588; Dec. 30.

Wren, Gloria B.: *See—*

Sandberg, Carl R., and Patterson.

Wren, Louis C., Dartford, assignor to The General Electric Company, Limited, London, England. Ore reclaiming machine. 2,423,279; July 1.

Wright Aeronautical Corporation, assignee: *See—*

Chilton, Roland.  
Hill, Henry C.  
Jackes, Herman D.  
Kaufman, Morton.  
Keller, George H.  
Lundquist, Wilton G.  
Meyers, Willard F.  
Ninnis, Harry, and Johansson.  
Steiner, Edward C.  
Weigand, Francis J., Stark, and Rowe.  
Zimmer, Eric H.

Wright, Arthur, Forest Hills, N. Y. Sock supporter. 2,415,058; Jan. 28.

Wright-Batchelder Corporation, assignee: *See—*

Wright, Wallace C.

Wright, Bert C., Wichita Falls, Tex. Pipe-line plow. 2,414,994; Jan. 28.

Wright, Daniel K., Cleveland Heights, Ohio, assignor to General Electric Company. Electric projection lamp. 2,419,432; Apr. 22.

Wright, Donald L., Westfield, N. J., assignor to Jasco, Incorporated. High temperature lubricant. 2,426,852; Sept. 2.

Wright, Donald L., Westfield, N. J., assignor to Standard Oil Development Company. Cooling fluid. 2,431,008; Nov. 18.

Wright, Erne A., Santa Barbara, Mexico, assignor to American Smelting and Refining Company, New York, N. Y. Tool dressing apparatus. 2,414,784; Jan. 21.

Wright, Esmond, P. G.: *See—*

Den Hertog, Martinus, and Wright.

Wright, Frank, East Orange, assignor to Breeze Corporations, Inc., Newark, N. J. Engine starter. 2,429,863; Oct. 28.

Wright, Fred J., assignor to The Denison Engineering Company, Columbus, Ohio. Hydraulic apparatus. 2,415,326; Feb. 4.

Wright, George F., Toronto, Ontario, assignor to The Honorary Advisory Council for Scientific and Industrial Research, Ottawa, Canada. Preparation of guanidine nitrate. 2,431,301; Nov. 18.

Wright, George T., Fort Wayne, Ind., assignor to General Electric Company. Centrifugal switch. 2,416,973; Mar. 4.

Wright, Grady E., Waco, Tex. Multiple tire sidewall mold. 2,429,786; Oct. 28.

Wright, Harold R.: *See—*

Taylor, James, and Wright.

Wright, Harold R., and W. J. Donaldson, assignors to Imperial Chemical Industries Limited. Manufacture of mono-nitration products of toluene. 2,416,974; Mar. 4.

Wright, Hubert B., Nashville, Tenn. Oil gauge wiper. 2,422,512; June 17.

Wright, James G. E., Alplaus, N. Y., assignor to General Electric Company. Hydrolyzing dimethyldihalogenosilanes. 2,426,912; Sept. 2.

Wright, John: *See—*

Olin, Henry C., and Wright.

Wright, John, Spondon, near Derby, assignor to British Celanese Limited, London, England. Monoazo dyes. 2,423,542; July 8.

Wright, John C., assignor, by mesne assignments, to H. H. Helbush, Los Angeles, Calif. Tool for applying sheet clamps. 2,433,640; Dec. 30.

Wright, John H., Philadelphia, Pa. Aquatic toy. 2,433,184; Dec. 23.

Wright, John H., Philadelphia, Pa. Humpty Dumpty breakup toy. 2,433,540; Dec. 30.

Wright, Manfred G., Kokomo, Ind., assignor to General Motors Corporation, Detroit, Mich. Dimension gauging means. 2,417,148; Mar. 11.

Wright, Marcus G., assignor of thirty-five one hundredths to T. P. Campbell and thirty-five one hundredths to W. M. Owen, Denver, Colo. Producing drill bits. 2,428,823; Oct. 14.

Wright, Richard N., Blackpool, England. Adjustable seat, particularly for motor vehicles. 2,430,656; Nov. 11.

Wright, Stanley, assignor of one-half to S. R. Pearce, Cabramatta, New South Wales, Australia. Gauging device for use in positioning, marking, and holding timber and for guiding the bit whilst dowel holes are bored. 2,428,730; Oct. 7.

Wright, Wallace C., Brookfield, N. H., assignor to Wright-Batchelder Corporation, Boston, Mass. Welt insole and fibrous sewing rib therefor. 2,415,982; Feb. 18.

Wright, Wortley A., Prospect Park, assignor to Sun Oil Company, Philadelphia, Pa. Lubricant composition. 2,429,905; Oct. 28.

Wrightman, Harry H., Detroit, Mich., and H. W. Opdyke, Montpelier, Ohio. Journal safety device. 2,424,203; July 15.

Wrigley, Harry W., deceased, Manchester, by S. E. Wrigley, executrix, Withington, Manchester, England. Holder for carbon papers. 2,432,363; Dec. 9.

Wrigley, Sarah E., executrix: *See—*

Wrigley, Harry W.

Wrobel, Henry T., Lynn, Mass., assignor to General Electric Company. Photoelectric cell. 2,416,604; Feb. 25.

Wrobley, Matthew B., Kansas City, Mo. Egg grader. 2,415,549; Feb. 11.

Wuehr, William L., Port Arthur, Tex. Internal-combustion engine. 2,428,106; Sept. 30.

Wuest, Heinz M., Upper Montclair, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Preparing secondary poly-hydroxyalkylaryl amines. 2,422,997; June 24.

Wuest, Heinz M., Upper Montclair, and M. Hoffer, assignors to Hoffmann-La Roche, Inc., Nutley, N. J. Isoxazole derivatives of sulfanilamide. 2,430,094; Nov. 4.

Wulff, John, Cambridge, Mass. Producing electrical contact material. 2,426,659; Sept. 2.

Wulffhorst, Elbert J., Greenhills, Ohio. Fuel absorber and revaporizer. 2,430,841; Nov. 11.

Wulsin, Frederick R., Providence, R. I. Wristlet. 2,414,845; Jan. 28.

Wulstein, Charles, assignor to himself and M. Gordon, New York, N. Y. Combined handle and hanger. 2,420,277; May 6.

Wunsch, Aleck H., Galesburg, Ill., assignor to The Oxweld Railroad Service Company. Fabricated crosshead shoe. 2,427,828; Sept. 23.

Wunsch, Karl F., Bridgeport, and J. E. Ferguson, Southbury, assignor to Bridgeport Brass Company, Bridgeport, Conn. Continuous head turning machine. 2,425,170; Aug. 5.

Wurlitzer, Rudolph, Company, The, assignee: *See—*

Christensen, Andrew B.  
Osborne, Fred H.  
Socin, Francis C.  
Walt, Albert J.

Wurster, William A., Portsmouth, Ohio. Pocket check protector. 2,433,502; Dec. 30.

Wurton Machine Company, assignee: *See—*

Touton, Rush D.

Wurzbarger, Paul D., Cleveland, Ohio. Pipe coupling. 2,414,184; Jan. 14.

Wurzbarger, Paul D., Cleveland, Ohio. Pipe coupling. 2,414,995; Jan. 28.

Wurzbarger, Paul D., Cleveland, Ohio. Pipe coupling. 2,417,536; Mar. 18.

Wurzel, Hugo: *See—*

Schaaff, Louis W., Heilmann, and Wurzel.

Wyandotte Chemicals Corporation, assignee: *See—*

Bacon, Leslie R.  
Heard, Joseph R., Jr.  
Kuentzel, Lester E.  
McCoy, Lowell R.  
Reeves, Howard F., Jr.  
Smith, David F.  
Vaughn, Thomas H.  
Wegst, Walter F., Bacon, and Vaughn.  
Wegst, Walter F., Bacon, Vaughn, and Crawford.  
Wegst, Walter F., and Burkard.

Wyatt, Kenneth S., Bronxville, N. Y., assignor to Phelps Dodge Copper Products Corporation, Dover, Del. Gas filled cable. 2,425,851; Aug. 19.

Wyatt, Raymond A.: *See—*

Frank, Clarence E., and Wyatt.

Wyatt, Raymond A., assignor to Briggs Manufacturing Company, Detroit, Mich. Internal-combustion engine. 2,415,155; Feb. 4.

Wyckoff, Nathan D., Sterling, Ill. Amusement apparatus. 2,417,537; Mar. 18.

Wyeth Incorporated, assignee: *See—*

Cooper, Frank B.  
Gyorgy, Paul.  
Hixson, Charles R.  
Snyder, Eric G.

Wykes, Bernard, assignor to David Evans & Company Limited, Crayford, England. Block printing. 2,432,364; Dec. 9.

Wyland, John D., Fresno, Calif. Nut and small object collector. 2,427,486; Sept. 16.



- Wyland, Rae: *See*—  
Altman, Fred E., and Wyland.
- Wyer, Joseph A., assignor to Trojan Powder Company, Allentown, Pa. Preparation of pentaerythritol products. 2,414,576; Jan. 21.
- Wyer, Joseph A., assignor to Trojan Powder Company, Allentown, Pa. Tetrapentaerythritol decanitate and ammonium nitrate explosive. 2,429,573; Oct. 21.
- Wylie, Hamilton N., assignor to Aircraft Hydraulic Appliances Limited, London, England. Pump. 2,429,011; Oct. 14.
- Wyman, Ellsworth: *See*—  
Dalzell, Charles B., and Wyman.
- Wyman, Harold M., Jr.: *See*—  
Lamb, Charles M., Jr., Wyman, and Heywood.
- Wynn, James F.: *See*—  
Cole, Donald F., and Wynn.
- Wynne, Charles G.: *See*—  
Warmisham, Arthur, and Wynne.
- Wynne, Frederick C., Hounslow, England. Self-operating draught excluder. 2,422,607; June 17.
- Wynne, Morgan D., Sr., and T. H., Jr., Griffin, Ga. Costume jewelry. 2,426,571; Aug. 26.
- Wynne, Tillet H., Jr.: *See*—  
Wynne, Morgan D., Sr., and T. H., Jr.
- Wyrick, Clayton E., deceased; M. R. Wyrick, executrix, assignor to Hopkins-Wyrick Laboratories, Inc., Miami, Fla. Quick-change chuck. 2,421,174; May 27.
- Wyrick, Mary R., executrix: *See*—  
Wyrick, Clayton E.
- Wyscaver, Floyd J., assignor of one-half to Henry C. Parker, Washington, D. C. Sleeve puller and inserter. 2,430,201; Nov. 4.
- Wytopich, Stanley A., assignor to Blossom Products Corporation, Allentown, Pa. Stop mechanism for knitting machines. 2,418,444; Apr. 1.
- Xenis, Constantine P., Douglaston, L. A. Pagano, Brooklyn, and H. A. Bauman, Forest Hills, assignors to Consolidated Edison Company of New York, New York, N. Y. Steam metering apparatus. 2,431,722; Dec. 2.
- Xpediter Corporation, assignee: *See*—  
Waters, John L.
- Yacoe, J. Craig, Wilmington, Del. Skirt and trouser hanger. 2,426,330; Aug. 26.
- Yager, George F., assignor to Bunting Brass & Bronze Company, Toledo, Ohio. Spindle structure. 2,422,061; June 10.
- Yager, George F., assignor to The Bunting Brass & Bronze Company, Toledo, Ohio. Spindle structure. 2,430,752; Nov. 11.
- Yager, Harvey J., Sunnyside, Wash. Riveting tool. 2,430,383; Nov. 4.
- Yale, Harry L., and G. W. Hearne, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Preparation of alicyclic aldehydes. 2,429,501; Oct. 21.
- Yale & Towne Manufacturing Company, The, assignee: *See*—  
Framhein, Herbert J.  
Heyer, Frederic K.  
Johnstone, Theodore H.  
Kendrick, Albert S.  
Quayle, George.  
Roper, Charles G.  
Schroeder, Charles S.  
Spain, Roy C.
- Yamamoto, Edward M., Spokane, Wash. Smoking pipe. 2,428,824; Oct. 14.
- Yamamoto, Hideo, Yokohama, Japan; vested in the Attorney General of the United States. Apparatus for manufacturing strainless glass sheets. 2,422,640; June 17.
- Yanchenko, Basil J., assignor, by mesne assignments, to G. A. Braun, Inc., Syracuse, N. Y. Timer for riveters. 2,423,920; July 15.
- Yankus, John V., Hyde Park, Mass. Automobile top lining. 2,418,918; Apr. 15.
- Yant, Chester W.: *See*—  
Rosenston, David, and Yant.
- Yant, William P.: *See*—  
Sharbaugh, William J., and Yant.
- Yarborough Vivvian L., San Francisco, Calif. Building heating and cooling panel system. 2,425,775; Aug. 19.
- Yarborough, William P.: *See*—  
Wilson, Harry, and Yarborough.
- Yard, Charles R., Nowata, Okla. Water conditioning machine for an oil well operated by water flowing from said well for feeding reagent to the water. 2,422,062; June 10.
- Yardeny, Michel N., New York, N. Y. Continuous control apparatus with linear motion. 2,416,274; Feb. 18.
- Yardeny, Michel N., New York, N. Y. Dual-remote control apparatus. 2,420,026; May 6.
- Yardeny, Michel N., New York, N. Y. Antiarcing electric motor control apparatus. 2,428,403; Oct. 7.
- Yardeny, Michel N., and R. Bernas, New York, N. Y., said Bernas assignor to said Yardeny. Stroboscopic load position indicator. 2,414,916; Jan. 28.
- Yardeny, Michel N., and R. Bernas, New York, N. Y.; said Bernas assignor to said Yardeny. Electrical impulse transmitting device. 2,416,275; Feb. 18.
- Yardeny, Michel N., R. Bernas, and L. Kardorff, New York, N. Y.; said Bernas and said Kardorff assignors to said Yardeny. Auxiliary device for stopping motors. 2,417,795; Mar. 18.
- Yardeny, Michel N., and R. Bernas, New York, and C. Prindle, Long Island City, assignors to Consolidated Development and Improvements Corp., New York, N. Y. Indicating device for remote-control systems. 2,430,902; Nov. 18.
- Yarosh, Stanley, New York, N. Y. Stereoscopic effect motion-picture film device. 2,415,550; Feb. 11.
- Yates, De Witt E., Chippewa Falls, Wis., assignor to W. S. Darley & Company, Chicago, Ill. Pumping apparatus. 2,428,256; Sept. 30.
- Yates, Harry R., Pawtucket, R. I. Mechanical tension and stop motion. 2,432,960; Dec. 16.
- Yates, Jake, Paso Robles, Calif. Egg sheller. 2,424,425; July 22.
- Yates, Robert E., assignor to Drying Systems, Inc., Chicago, Ill. Burner safety control. 2,431,158; Nov. 18.
- Yawitz, Murray: *See*—  
Kott, Hermann, and Yawitz.
- Yeager, Henry M., and S. O. McCoy, Baltimore, Md. Dental wax spatula with heat dissipating handle and telescoping fuel supply. 2,418,214; Apr. 1.
- Yeandle, Ralph S., Schoharie, N. Y., assignor to General Electric Company. Frequency responsive network. 2,422,513; June 17.
- Yechout, Josephine F., Omaha, Nebr. Skirt marker. 2,433,082; Dec. 23.
- Yellin, Edward, Chicago, Ill. Curtain ring. 2,417,623; Mar. 18.
- Yelm, Charles W., assignor to The Gates Rubber Company, Denver, Colo. Curing V-type belts. 2,420,278; May 6.
- Yendall, Edward F., Kenmore, N. Y., assignor to The Linde Air Products Company. Process and apparatus for separating gas mixtures. 2,423,543; July 8.
- Yeomans Brothers Company, assignee: *See*—  
Jeffery, Harold T.
- Yeomans, Lucien I., and D. Clausen, assignors to Lucien I. Yeomans, Inc., Chicago, Ill. Machine tool and constructing the same. 2,415,269; Feb. 4.
- Yeomans, Lucien I., and R. P. Frye, assignors to Lucien I. Yeomans, Inc., Chicago, Ill. Machine tool. 2,419,868; Apr. 29.
- Yeomans, Lucien I., Inc., assignee: *See*—  
Yeomans, Lucien I., and Clausen.  
Yeomans, Lucien I., and Frye.
- Yerkes, Leland A. Boulder City, Nev. Electrolytic method for producing magnesium alloys. 2,431,723; Dec. 2.
- Yerzley, Felix L., Newark, N. J. Shock and vibration insulator. 2,415,983; Feb. 18.
- Yeschick, Alex, Thief River Falls, Minn. Ceiling box holder. 2,429,443; Oct. 21.
- Yett, James, Artemus, Ky. Grapple. 2,429,444; Oct. 21.
- Yetter, Edward W., assignor to Leeds and Northrup Company, Philadelphia, Pa. Measurement of distance by frequency-modulated carrier wave. 2,418,538; Apr. 8.
- Ygnis, S. A., assignee: *See*—  
Singy, Ernest.
- Yingling, Frank B., Hamilton, Ohio. Connecting rod assembly. 2,428,602; Oct. 7.
- Yntema, Leonard F., Waukegan, Ill., assignor to President & Board of Trustees of St. Louis University, St. Louis, Mo. Electrodeposition of molybdenum-cobalt alloys. 2,428,404; Oct. 7.
- Yochim, George J.: *See*—  
Huenerfauth, George E., Green, and Yochim.
- Yockey, Hubert P., Oakland, and J. M. Nuding, Berkeley, Calif., assignors to the United States of America, as represented by the Atomic Energy Commission. Welding carbon to molybdenum. 2,431,975; Dec. 2.
- Yoder Company, The, assignee: *See*—  
Ridder, Joseph U.
- Yoder, David M.: *See*—  
Hiltabedel, Charles E., and Yoder.
- Yoder, Stanley W., Los Angeles, Calif. Sprinkler. 2,417,228; Mar. 11.
- Yogan, Bart P., Moses Lake, Wash. Illuminated toy. 2,428,133; Sept. 30.
- Yohn, Albert, Buffalo, N. Y. Fire alarm. 2,428,107; Sept. 30.
- Yondorf, Emil, Chicago, Ill. Pencil pointer. 2,423,280; July 1.
- Yonkers, Edward H., Chicago, Ill. Alternating current generator. 2,416,560; Feb. 25.
- Yonkers, John L., Evanston, assignor to Joslyn Manufacturing and Supply Company, Chicago, Ill. Fuse link. 2,429,906; Oct. 28.
- York Corporation, assignee: *See*—  
Leeson, Meldon G.  
Soling, Samuel P.
- York-Shipley, Inc., assignee: *See*—  
Ruff, Alonzo W.
- Yorks, Gerald A., Moline, Ill. Composite bolt structure for semiautomatic rifles. 2,424,264; July 22.
- Yost, Henry, Kenton, Ohio. Safe smoke pipe holder. 2,422,765; June 24.
- Yost, Karl M., assignor to Warner Electric Brake Manufacturing Company, Beloit, Wis. Brake. 2,426,135; Aug. 19.
- Yothers, Robert A., Lodi, Ohio. Detachable step for ladders. 2,415,327; Feb. 4.
- Youel, John M., Baton Rouge, La., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Selenium ruby glass. 2,418,684; Apr. 8.



- Youhouse, Joseph, Fairfield, assignor to Casco Products Corporation, Bridgeport, Conn. Switch device. 2,415,858; Feb. 18.
- Youker, Mortimer A., Cragmere, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Butadiene emulsion polymerization in the presence of water soluble complex metal cyanides. 2,417,034; Mar. 4.
- Young, Arthur A.: *See—*  
Johansson, Ernest G., and Young.
- Young, Arthur M., Buffalo, N. Y. Captive helicopter-kite means. 2,429,502; Oct. 21.
- Young, Arthur M., Buffalo, N. Y. Aircraft with pusher type propeller for stabilizing and steering. 2,433,641; Dec. 30.
- Young, Austin E., Syracuse, assignor to Syracuse Chilled Plow Co., Inc., New York, N. Y. Power lift device. 2,417,579; Mar. 18.
- Young, Austin E., assignor to Syracuse Chilled Plow Co., Inc., Syracuse, N. Y. Potato digger with power lift. 2,417,580; Mar. 18.
- Young, Austin E., assignor to Syracuse Chilled Plow Co., Inc., Syracuse, N. Y. Potato digger and clutch therefor. 2,426,545; Aug. 26.
- Young, Charles A., Springfield, Ohio. Ejector and cocking mechanism for firearms. 2,418,611; Apr. 8.
- Young, Charles J., Ardmore, Pa., assignor to Radio Corporation of America. Facsimile apparatus. 2,415,229; Feb. 4.
- Young, Charles J., Ardmore, Pa., assignor to Radio Corporation of America. Facsimile recorder. 2,420,457; May 13.
- Young, Charles J., Ardmore, Pa., assignor to Radio Corporation of America. Facsimile receiver. 2,421,673; June 3.
- Young, Charles J., Princeton, N. J., assignor to Radio Corporation of America. Secret facsimile system. 2,425,076; Aug. 5.
- Young, Charles J., Princeton, N. J., assignor to Radio Corporation of America. Speed control system. 2,427,175; Sept. 9.
- Young, Charles M.: *See—*  
Lawson, Archibald, and Young.
- Young, Clair I., assignor to Harbison-Walker Refractories Company, Pittsburgh, Pa. Block pressing apparatus. 2,429,286; Oct. 21.
- Young, Clinton J. T., assignor to Polaroid Corporation, Cambridge, Mass. Laminated polarizer and birefringent layers. 2,420,279; May 6.
- Young, Clinton J. T., assignor to Polaroid Corporation, Cambridge, Mass. Polarized headlighting system for automotive vehicles. 2,433,503; Dec. 30.
- Young, David W.: *See—*  
Berk, Henry, and Young.  
Calfee, John D., and Young.  
Evans, Hector C., and Young.  
Sparks, William J., and Young.
- Young, David W., Roselle, and J. D. Calfee, Westfield, N. J., assignors to Standard Oil Development Company. Lubricating oil composition. 2,422,278; June 17.
- Young, De Walt S., Kingsport, Tenn., and J. H. Pearson, Manhasset, assignors to General Chemical Company, New York, N. Y. Manufacture of boron trifluoride. 2,416,133; Feb. 18.
- Young, Donald P.: *See—*  
Drewitt, James G. N., and Young.  
Monerleiff, Robert W., and Young.
- Young, Ervin M., East Orange, N. J., assignor to The Patent and Licensing Corporation, New York, N. Y. Concealing siding panel joint. 2,419,047; Apr. 15.
- Young, Farrile S., assignor to Panhandle Eastern Pipe Line Company, Kansas City, Mo. Field compressor. 2,424,010; July 15.
- Young, Farrile S., assignor to Panhandle Eastern Pipe Line Company, Kansas City, Mo. Method and apparatus for treating gas. 2,428,643; Oct. 7.
- Young, Forrest J., Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Rotary machine. 2,422,383; June 17.
- Young, Foster J., Kent, assignor to Wingfoot Corporation, Akron, Ohio. Stretching and laminating film. 2,429,177; Oct. 14.
- Young, Frank W., Medfield, Mass. Foam control in brown stock washing. 2,431,009; Nov. 18.
- Young, Fred M., Racine, Wis. Heat exchanger. 2,421,362; May 27.
- Young, George G., Bridgeport, Conn., assignor to General Electric Company. Oscillation generator. 2,419,869; Apr. 29.
- Young, George O., Robesonia, assignor to Vanity Fair Mills, Inc., Reading, Pa. Knitting machine. 2,428,405; Oct. 7.
- Young, Harland H.: *See—*  
Holloway, Donald F., and Young.
- Young, Harland H., assignor to Industrial Patents Corporation, Chicago, Ill. Glucosides as plasticizers for water-soluble animal and vegetable adhesives. 2,422,328; June 17.
- Young, Harland H., Chicago, Ill., and D. Rubinstein, Brookline, Mass., assignors to Industrial Patent Corporation, Chicago, Ill. Reaction products of primary and secondary alkylolamines. 2,429,445; Oct. 21.
- Young, Henry S., Jr.: *See—*  
Midtlyng, Carl R., and Young.
- Young, Henry S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,420,579; May 13.
- Young, Howard A., Westfield, N. J., assignor to United States Rubber Company, New York, N. Y. Treating fabrics. 2,421,363; May 27.
- Young, Howard E.: *See—*  
Vecchio, Luigi, and Young.
- Young, Irvin L.: *See—*  
Sonnenberg, Rudolph, and Young.
- Young, James H., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing a therapeutic zinc peroxide composition. 2,429,971; Oct. 28.
- Young, James H., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of sodium ferrocyanide. 2,431,601; Nov. 25.
- Young, John, Hagerstown, Md., assignor to Duramold Aircraft Corporation, New York, N. Y. Apparatus for molding wood or the like material. 2,414,917; Jan. 28.
- Young, John, Hagerstown, Md., assignor to Duramold Aircraft Corporation, New York, N. Y. Fluid-pressure apparatus for fabricating laminated assemblies. 2,425,450; Aug. 12.
- Young, John A., Beaumont, Tex. Ceiling and wall cleaning brush. 2,425,852; Aug. 19.
- Young, Leo F.: *See—*  
King, John M., Young, Reinhard, and Schultze.
- Young, Leo F., Wharton, N. J. Fuse. 2,419,981; May 6.
- Young, Leonard W., Northwood, England. Padlock. 2,428,902; Oct. 14.
- Young, Lloyd L., Patchogue, N. Y., assignor to Radio Corporation of America. Meter mounting device. 2,426,424; Aug. 26.
- Young, Marvin O., Media, Pa. Valve. 2,429,658; Oct. 28.
- Young, Norman H., Jr., Jackson Heights, N. Y., assignor to Federal Telephone and Radio Corporation. Pulse generating system. 2,416,367; Feb. 25.
- Young, Norman H., Jr., Jackson Heights, N. Y., assignor to Federal Telephone and Radio Corporation. Controlling high-frequency oscillators. 2,416,368; Feb. 25.
- Young, Norman H., Jr., Jackson Heights, N. Y., assignor to Federal Telephone and Radio Corporation. Obstacle detection apparatus. 2,419,620; Apr. 29.
- Young, Norman H., Jr., Jackson Heights, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Interference reducing radio system. 2,425,020; Aug. 5.
- Young, Norman H., Jr., Jackson Heights, N. Y., assignor to Federal Telephone and Radio Corporation, Newark, N. J. Duplicate transmission. 2,429,787; Oct. 28.
- Young Radiator Company, assignee: *See—*  
Brinen, Howard F.  
Shaw, Joe C.
- Young, Raymond C., Manitowoc, Wis. Feather trimmer. 2,419,184; Apr. 15.
- Young, Serenus H. A., Geneva, Ill., assignor, by mesne assignments, to Hawley Products Company. Selective impregnation of accreted fibrous plastic articles. 2,417,851; Mar. 25.
- Young, Victor J.: *See—*  
Proskauer, Richard, and Young.
- Young, Walker F., Bogota, Colombia, assignor of eighteen and three-fourths per cent to A. Ramsay, eighteen and three-fourths per cent to E. G. Ramsay, eighteen and three-fourths per cent to M. Ramsay, and twenty-five per cent to H. D. Spencer, New York, N. Y. Process and apparatus for orienting crystals. 2,430,969; Nov. 18.
- Young, Wayne W., Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa. Vibration recorder. 2,420,025; May 6.
- Young, William, Washington, D. C. Door sealing arrangement. 2,421,400; June 3.
- Young, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Wide-angle optical system. 2,430,595; Nov. 11.
- Young, William R., Jr., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraph switching system. 2,413,741; Jan. 7.
- Young, William R., and P. K. Turner, Fairfield, Conn., assignors to General Electric Company. Apparatus for starting discharge lamps. 2,417,724; Mar. 18.
- Young, William S., assignor to The Atlantic Refining Company, Philadelphia, Pa. Lubricant and producing same. 2,430,842; Nov. 11.
- Younger, Alexander R., Edgware, England. Electric hair-dryer. 2,425,056; Aug. 5.
- Youngtown Foundry and Machine Company, The, assignee: *See—*  
Thomas, Lloyd R.
- Youngtown Sheet and Tube Company, The, assignee: *See—*  
Mirfield, George E., and Connor.
- Youngtown Steel Door Company, The, assignee: *See—*  
Beauchamp, Wilfred A.  
Ditchfield, Frank.  
Madland, Thorvald.
- Youngtown Welding & Engineering Co., The, assignee: *See—*  
Stroecker, Henry R., and Hall.
- Youngworth, Joseph E., assignee: *See—*  
Youngworth, Louis F.



- Youngworth, Louis F., assignor to J. E. Youngworth, Clifton, N. J. Quick-acting and self-locking wheel retainer. 2,416,605; Feb. 25.
- Yother, John D., Vernon, Tex. Doorstop. 2,414,404; Jan. 14.
- Yuba Manufacturing Company, assignee: *See*—Macaulay, Walter B.
- Yukob, Peter, Lynn, assignor to Kistler, Lesh & Company, Incorporated, Boston, Mass. Cutting soles and the like. 2,422,063; June 10.
- Yule, John A. C., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic masking. 2,420,636; May 13.
- Yule, John S., Chicago, and H. L. Molr, Skokie, assignors to The Pure Oil Company, Chicago, Ill. Lubricant and making same. 2,420,280; May 6.
- Yule, William H. D., London, England, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Electromagnetic relay. 2,423,135; July 1.
- Yundt, Michael, Company, assignee: *See*—Goldacker, Edward H.
- Yuster, Samuel T., State College, assignor to The Bradford District Pennsylvania Oil Producers Association, Bradford, Pa. Well torpedo. 2,416,077; Feb. 18.
- Yuza, Rudolph, assignor to A. Dalkin Company, Chicago, Ill. Dispensing apparatus for dispensing beverages of mixed liquids. 2,415,571; Feb. 11.
- Yuza, Rudolph, assignor to A. Dalkin Company, Chicago, Ill. Mixing faucet for dispensing beverages. 2,420,850; May 20.
- Z Pack Corporation, assignee: *See*—Welling, Charles H., and Reiman.
- Z & W Machine Products, Inc., assignee: *See*—Kelley, Zar W.
- Zabel, Frederick R., New York, assignor of thirty-three and one-third per cent to P. Ullman, Bronx, N. Y. Riveting device. 2,431,901; Dec. 2.
- Zabel, William P., Cleveland Heights, Ohio, assignor to General Electric Company. Coating apparatus. 2,422,457; June 17.
- Zacks, Florence B., Columbus, Ohio. Shoulder pad. 2,422,161; June 10.
- Zade, Hans P.: *See*—Halm, Georg, and Zade.
- Zademach, Erich R., Elizabeth, and W. W. Clarke, Summit, assignors, by mesne assignments, to Metalwash Machinery Company, Newark, N. J. Article washing machine. 2,413,853; Jan. 7.
- Zademach, Erich R., Elizabeth, and W. W. Clarke, Summit, assignors, by mesne assignments, to Metalwash Machinery Company, Newark, N. J. Sectional nozzle structure for driers. 2,413,937; Jan. 7.
- Zademach, Erich R., Hillside, and W. W. Clarke, Summit, assignors to Metalwash Machinery Company, Irvington, N. J. Rotary conveyor. 2,415,201; Feb. 4.
- Zademach, Erich R., Hillside, W. W. Clarke, Summit, N. J., and K. L. Ford, Horseheads, N. Y., assignors to Metalwash Machinery Company, Irvington, N. J. Apparatus for treating contents of sealed containers. 2,415,782; Feb. 11.
- Zaeslin, Hans H.: *See*—Martin, Henry, Zaeslin, Hirt, and Staub.
- Zahl, Harold A.: *See*—Golay, Marcel J. E., and Zahl.
- Zahn, George G., Buffalo, assignor to Hurd Corporation, New York, N. Y. Evaporation and concentration of liquids. 2,423,746; July 8.
- Zahn, George G., Buffalo, assignor to Hurd Corporation, New York, N. Y. Evaporation and concentration of liquids. 2,423,747; July 8.
- Zahn, Eric H., Pound Ridge, and R. C. Feagin, assignors to Austinal Laboratories, Inc., New York, N. Y. Making patterns and use thereof. 2,420,851; May 20.
- Zahn, Ernest M., assignee, et al.: *See*—Wiseman, Walter S.
- Zahodiakin, Victor F., Short Hills, N. J. Piston ring. 2,421,175; May 27.
- Zahodiakin, Victor F., Short Hills, N. J. Machine for setting and ejecting preformed spiral studs. 2,424,296; July 22.
- Zahodiakin, Victor F., Short Hills, N. J. Piston ring. 2,432,602; Dec. 16.
- Zaiger, Max, assignee: *See*—Nesson, Israel.
- Zaino, Corradino R.: *See*—Salt, Lloyd B., and Zaino.
- Zakel, Paul, Stockton, Calif. Carrying scraper. 2,425,664; Aug. 12.
- Zalesak, William A., assignee et al.: *See*—Harding, Lloyd E.
- Zaleski, John F., Queens Village, N. Y., assignor to Sperry Gyroscope Company, Inc. Ultra high frequency energy coupling. 2,433,011; Dec. 23.
- Zalcovitz, Morris, Philadelphia, Pa. Resilient constructions for use in furniture. 2,433,012; Dec. 23.
- Zalkind, Benjamin J., Saco, Maine, assignor to Saco-Lowell Shops, Boston, Mass. Long staple drafting mechanism. 2,426,425; Aug. 26.
- Zalkind, Philip, New York, N. Y. Laminated sheet. 2,418,612; Apr. 8.
- Zallea Brothers & Johnson, assignee: *See*—Johnson, Herbert G.
- Tobey, Solomon, Mank, and Zallea.
- Zallea, Sol: *See*—Tobey, Solomon, Mank, and Zallea.
- Zanardo, Peter J., Chicago, Ill. Single delivery cigarette dispenser. 2,431,219; Nov. 18.
- Zar, Jacob L., Orange, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Telemeter. 2,418,685; Apr. 8.
- Zarkin, Charles, New York, N. Y. Hydraulically controlled graining machine manipulating device. 2,413,898; Jan. 7.
- Zarkin, Charles, New York, N. Y. Graining machine dumper. 2,413,899; Jan. 7.
- Zaro, Henry C., New York, N. Y. Colostomy appliance. 2,423,060; June 24.
- Zarobsky, Charles A., assignor to The Parker Appliance Company, Cleveland, Ohio. Machine tool. 2,418,387; Apr. 1.
- Zaroodny, Serge J., Aberdeen, Md. Stereoscopic gun sight having fixed oculars and objectives movable with the gun. 2,422,710; June 24.
- Zavarella, Arthur, Agawam, Mass., assignor to The United States of America as represented by the Secretary of War. Apparatus for producing tapered electrodeposits. 2,425,359; Aug. 12.
- Zavarella, Raphael, Pittsburgh, Pa. Wheel suspension. 2,425,853; Aug. 19.
- Zaverl, Anthony, East Cleveland, Ohio. Spring motor regulator. 2,429,040; Oct. 14.
- Zbar, Marcus J., Tampa, Fla. Diving mask. 2,420,281; May 6.
- Zech, Alfred, Detroit, assignor to Industrial Wire Cloth Products Corporation, Wayne, Mich. Fluid strainer construction. 2,427,320; Sept. 9.
- Zeeh, Henry A., Brooklyn, and R. A. Vacher, Lake View, assignors to Rockwood & Co., Brooklyn, N. Y. Control apparatus. 2,421,861; June 10.
- Zega, Frank, Bridgeport, Conn. Roller screen. 2,428,644; Oct. 7.
- Zeidler, Eugene R.: *See*—Bonawit, David J., and Zeidler.
- Zeidler, Reinhold C., Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Clutch cover and operating lever assembly. 2,417,035; Mar. 4.
- Zeidler, Reinhold C., Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Fluid coupling. 2,428,134; Sept. 30.
- Zeidler, Reinhold C., Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Fluid coupling. 2,429,503; Oct. 21.
- Zeidler, Reinhold C., Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Rotary fluid coupling shaft retaining means. 2,431,855; Dec. 2.
- Zeler, Frederick F., Stratfield, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine. 2,428,762; Oct. 7.
- Zeler, Frederick F., Stratfield, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Presser-bar mechanism for sewing machines. 2,430,440; Nov. 4.
- Zeller, Frank, Brooklyn, N. Y., assignor to The Rokor Company, Norwalk, Conn. Clamping means for mirror devices and the like. 2,419,306; Apr. 22.
- Zeischke, Wolfgang M.: *See*—Davis, Harold S., Lechtenwalter, and Zeischke.
- Zeitlin, Alexander, and L. Robbins, New York, N. Y. Oil separator. 2,425,410; Aug. 12.
- Zelenko, Robert B., New York, N. Y. Automobile hanger. 2,417,036; Mar. 4.
- Zelinka, Wenzel, Port Nelson, Ontario, Canada, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electron device and radiator. 2,431,157; Nov. 18.
- Zellweger A. G. Apparate- und Maschinenfabriken Uster, assignee: *See*—Meier, Heinrich.
- Zellweger, Carl, Zurich, and H. H. Durheim, Berne, Switzerland, assignors to International Standard Electric Corporation, New York, N. Y. Switching apparatus with periodically operated contacts. 2,429,659; Oct. 28.
- Zener, Clarence M., Newton Center, and D. M. Van Winkle, Newtonville, Mass. Method and apparatus for stress-strain testing. 2,423,867; July 15.
- Zenith Radio Corporation, assignee: *See*—Adler, Robert, and Prentiss.
- Brakel, Leslie, and Thompson.
- Gustafson, Gilbert E.
- Kelsey, Elizabeth L.
- Prentiss, John G.
- Wandrey, Clarence W.
- Wolff, Marvin A.
- Zenlea, Benjamin J.: *See*—Jones, Wallace T., and Zenlea.
- Zenlea, Benjamin J., Ozone Park, assignor to Rockwood & Co., Brooklyn, N. Y. Obtaining theobromine and other products from cocoa materials. 2,422,874; June 24.
- Zenner, Raymond E.: *See*—Camras, Marvin, and Zenner.
- Vagtborg, Harold A., Camras, and Zenner.
- Zenor, Hughes M., Tulsa, Okla., assignor to Sperry Gyroscope Company, Inc. Sweep circuit. 2,426,256; Aug. 26.
- Zentner, Margaret R., Newark, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Soluble compounds of riboflavin and manufacture thereof. 2,423,074; June 24.
- Zenzes, Alexander M.: *See*—Schloessinger, William, and Zenzes.



- Zenzen, Alexander M., New York, N. Y. Fruit flavored food brick. 2,414,131; Jan. 14.
- Zenzen, Alexander M., New York, N. Y. Treatment of vegetable matter and product obtained. 2,426,076; Aug. 19.
- Zenzen, Alexander M., New York, N. Y. Fruit flavored raw sugar bricks. 2,429,251; Oct. 21.
- Zenzen, Alexander M., New York, N. Y. Pectinized sugar composition. 2,429,660; Oct. 28.
- Zenzen, Alexander M., New York, N. Y. Edible liquids loaded onto fibrous vehicles in dry, free running, stable form. 2,430,797; Nov. 11.
- Zenzen, Alexander M., New York, N. Y. Fruit flavored raw can sugars. 2,430,903; Nov. 18.
- Zenzen, Alexander M., and W. Schloessinger, New York, N. Y. Dehydrated food product. 2,432,222; Dec. 9.
- Zerkle, Lawrence C., Cleveland, Ohio. Foot corrector. 2,417,852; Mar. 25.
- Zern, Warren B., Pottstown, Pa. Work clamp and template holder for hinge-seat cutting. 2,427,081; Sept. 9.
- Zerner, Ernest: See—  
Stossel, Ernest, and Zerner.
- Zesch, Eugene M., Shillington, assignor to Rosedale Knitting Company, Laureldale, and K. Lieberknecht, Inc., Reading, Pa. Heel fashioning mechanism for straight knitting machines. 2,432,108; Dec. 9.
- Zeun, Louis H., assignor to Peter Paul, Inc., Naugatuck, Conn. Abrading disc skin removing machine. 2,428,903; Oct. 14.
- Zeun, Louis H., assignor to Peter Paul, Inc., Naugatuck, Conn. Treating coconuts to release the meat from the shell. 2,431,602; Nov. 25.
- Zickrick, Lyall: See—  
Adams, Roy L., and Zickrick.
- Ziebold, Eugene H.: See—  
Mahan, Louis F., Hasselhorn, and Ziebold.
- Ziebold, Herbert, assignor to Askania Regulator Company, Chicago, Ill. Apparatus for controlling primary and secondary fuels. 2,418,388; Apr. 1.
- Ziebold, Herbert, assignor, by mesne assignments, to Electronbeam Ltd., Chicago, Ill. Electronic regulator. 2,428,747; Oct. 7.
- Ziebold, Herbert, assignor to Askania Regulator Company, Chicago, Ill. Control means for power generating systems. 2,433,725; Dec. 30.
- Ziegler, Byron J., West Dudley, assignor to American Optical Company, Southbridge, Mass. Forming lenses. 2,433,013; Dec. 23.
- Ziegler, Edwin S., York, Pa. Binder for periodicals. 2,414,007; Jan. 7.
- Ziegler, John A., Camas, Wash. Combined roller and spool mounting for paper machines. 2,431,856; Dec. 2.
- Ziegler, Marc, Buenos Aires, Argentina, assignor to Hartford National Bank and Trust Company, Hartford, Conn., trustee. Frequency counter. 2,416,078; Feb. 18.
- Ziegler, Marc, Buenos Aires, Argentina, assignor to Hartford National Bank and Trust Company, Hartford, Conn. Frequency modulation network. 2,429,504; Oct. 21.
- Ziegler, Paul F.: See—  
Morrison, Dana E., and Ziegler.
- Ziegler, Paul F., Winnetka, Ill., assignor to The Kendall Company, Boston, Mass. Pressure sensitive adhesive and adhesive tape. 2,426,257; Aug. 26.
- Ziegler, Walter H., Kansas City, Mo., assignor to Crystal Products Company. Tape dispenser. 2,414,915; Jan. 28.
- Ziels, Norbert W., Leonia, and W. H. Schmidt, Grantwood, N. J., assignors to Lever Brothers Company, Cambridge, Mass. Shortening having an extended plastic range. 2,430,596; Nov. 11.
- Zienty, Ferdinand B.: See—  
Kyrides, Lucas P., and Zienty.
- Kyrides, Lucas P., Zienty, and Stephenson.
- Zierer, Wallace E.: See—  
Ball, Thomas M., and Zierer.
- Zigenbein, Clarence R., Dallas, Tex. Apparatus and method for producing hollow piles. 2,429,012; Oct. 14.
- Zilly, Herbert C., Michigan City, Ind. Compressor system. 2,432,553; Dec. 16.
- Zim Manufacturing Company, assignee: See—  
Berkman, Herbert A.
- Zimmer, Eric H., Wyckoff, N. J. Antiskid device. 2,429,738; Oct. 28.
- Zimmer, Eric H., Wyckoff, N. J., assignor to Wright Aeronautical Corporation. Radius forming tool. 2,422,279; June 17.
- Zimmer, John C.: See—  
Beerbower, Alan, and Zimmer.
- Duncan, Gordon W., and Zimmer.
- Morway, Arnold J., and Zimmer.
- Wasson, Jones I., and Zimmer.
- Zimmer, John C., Union, N. J., assignor to Standard Oil Development Company. Soluble cutting oil. 2,431,010; Nov. 18.
- Zimmer, John C., and G. M. McNulty, Union, N. J., assignors to Standard Oil Development Company. Lubricant. 2,417,283; Mar. 11.
- Zimmer, John C., Union, and J. G. McNab, Cranford, N. J., assignors to Standard Oil Development Company. Extreme pressure lubricants. 2,424,204; July 15.
- Zimmer, John C., Union, and E. W. Carlson, Mountinside, N. J., assignors to Standard Oil Development Company. Petroleum wax coating composition. 2,429,150; Oct. 14.
- Zimmer, John C., and G. M. McNulty, Union, N. J., assignors to Standard Oil Development Company. Corrosive inhibited additive for mineral lubricating oil composition. 2,431,011; Nov. 18.
- Zimmer Manufacturing Company, assignee: See—  
Ettlinger, Joe J.
- Zimmer, Myron J., Wood Dale, assignor to Ekco Products Company, Chicago, Ill. Pressure cooker closure. 2,429,151; Oct. 14.
- Zimmerlein, William G., and L. C. Siebert, Mendota, Ill. Posthole digger. 2,416,036; Feb. 18.
- Zimmerman, Arthur G., Indianapolis, Ind., assignor to Radio Corporation of America. Film driving mechanism. 2,416,606; Feb. 25.
- Zimmerman, Arthur G., Indianapolis, Ind., assignor to Radio Corporation of America. Pad roller assembly. 2,418,545; Apr. 8.
- Zimmerman, Charles H., Nichols, Conn. Helicopter flying apparatus. 2,417,896; Mar. 25.
- Zimmerman, Charles H., Nichols, assignor to United Aircraft Corporation, East Hartford, Conn. Airplane of low aspect ratio. 2,431,293; Nov. 18.
- Zimmerman, Gordon B., assignor to Universal Oil Products Company, Chicago, Ill. Separation of isobutene from a mixture of C<sub>4</sub> hydrocarbons. 2,421,229; May 27.
- Zimmerman, Naoma, Chicago, Ill. Kaleidoscopic toy. 2,430,318; Nov. 4.
- Zimmerman, Robert F., assignor to Lathrop-Hoge Construction Co., Cincinnati, Ohio. Backing-up element for welding. 2,430,266; Nov. 4.
- Zimmermann, Frederick J., and M. Kayner, Wausau, assignors to Salvo Chemical Corporation, Rothschild, Wis. Flavoring composition. 2,429,907; Oct. 28.
- Zimmermann, Hans J., Canton, Ohio. Pants hanger. 2,418,106; Mar. 25.
- Zimmermann, Herbert P., Amityville, N. Y., assignor to Pennsylvania Railroad, Philadelphia, Pa. Collapsible infant berth. 2,433,504; Dec. 30.
- Zindrick, Edward J., Chicago, Ill. Wood cutting device. 2,423,807; July 8.
- Zingg, Werner: See—  
Pudelko, Richard, Meier, and Zingg.
- Zingsheim, Edward W.: See—  
Peterson, Carl D., Deimel, and Zingsheim.
- Zink, George W., Bridgeport, Conn., assignor to Phelps Dodge Copper Products Corporation, Dover, Del. Segmental cable. 2,432,603; Dec. 16.
- Zink, William L., Plano, V. O. Hauswirth, Kankakee, and J. M. Gelstwhite, Chebanse, assignors to Sears, Roebuck & Co., Chicago, Ill. Weight construction. 2,425,057; Aug. 5.
- Zinn, Fred W., Battle Creek, Mich. Identification tag. 2,433,185; Dec. 23.
- Zipp Fastener Company Limited, assignee: See—  
Fruengel, Hermann R.
- Zipser, James A., New York, N. Y., assignor to Polyphase Machine Company. Locking device. 2,432,059; Dec. 2.
- Ziska, Adam, Wauwatosa, Wis. Pump. 2,430,753; Nov. 11.
- Ziskind, Edward E., New York, N. Y. Glove presser. 2,426,331; Aug. 26.
- Zisman, William A., Washington, D. C., H. R. Baker, Mount Rainier, Md., and C. M. Murphy, Jr., Washington, D. C. Break-in fuel. 2,432,109; Dec. 9.
- Zito, Elisa, Middletown, N. Y. Infant wrap. 2,431,603; Nov. 25.
- Zitza, Curt L.: See—  
Miller, Leslie T., Salmon, and Zitza.
- Zock, August E., Sault Ste. Marie, Mich. Cotton harvesting. 2,430,202; Nov. 4.
- Zoeller, Herman J.: See—  
Macke, Robert A., and Zoeller.
- Zolleis, John G., Philadelphia, Pa. Coupling. 2,430,657; Nov. 11.
- Zoller, Ronald E., London, England, assignor to The Babcock & Wilcox Company, Newark, N. J. Boiler. 2,415,123; Feb. 4.
- Zonis, Sydney, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Cooling and lubricating means for sewing machines. 2,417,403; Mar. 11.
- Zonis, Sydney, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Convertible flat-bed and cylinder-arm sewing machines. 2,424,872; July 29.
- Zottu, Paul D., assignor to The Girdler Corporation, Louisville, Ky. High frequency switching system. 2,419,307; Apr. 22.
- Zottu, Paul D., Indian Hills, assignor to The Girdler Corporation, Louisville, Ky. High frequency tuning coil. 2,425,411; Aug. 12.
- Zschokke, Arthur J., Huntington Park, assignor to Lane-Wells Company, Los Angeles, Calif. Contact electrically operated well tools. 2,427,377; Sept. 16.
- Zuber, John G., Chicago, Ill. Hardness measuring instrument. 2,421,449; June 3.
- Zubler, Camp M., Drexel Hill, Pa. Throwout bearing. 2,424,530; July 22.
- Zuck, Daniel R., San Diego, Calif. Combined flight and ground control for airplanes. 2,417,725; Mar. 18.
- Zuck, Daniel R., Los Angeles, Calif. Directional propeller control. 2,420,764; May 20.
- Zucker, Gottlieb F., Chicago, Ill. Chimney ventilator. 2,423,672; July 8.



- Zucker, Gottlieb F., Chicago, Ill. Vehicle stop device. 2,430,319; Nov. 4.
- Zuckerman, Joseph S., assignor to Mell-O-Chime and Signal Corporation, Chicago, Ill. Electric chime signal. 2,417,037; Mar. 4.
- Zuckerman, Joseph S., assignor to Mell-O-Chime and Signal Corporation, Chicago, Ill. Electric chime system. 2,431,787; Dec. 2.
- Zuckerman, Roscoe C., Stockton, Calif. Beet harvester. 2,428,904; Oct. 14.
- Zucrow, Maurice J.: *See*—  
Large, Charles B., Zucrow, and Hirsch.
- Zühlsdorff, Gerhard: *See*—  
Inhoffen, Hans H., and Zühlsdorff.
- Zuljiveh, Jeri, Fresno, Calif. Cylinder cooling means. 2,427,759; Sept. 23.
- Zull, Ray H., Detroit, Mich. Direction signal for motor vehicles. 2,433,252; Dec. 23.
- Zumbuhl, Gottfried F., San Francisco, Calif. Beam compass. 2,419,752; Apr. 29.
- Zuponic, John, Los Angeles, assignor to Ted Nelson, San Leandro, Calif. Chuck. 2,432,604; Dec. 16.
- Zuravsky, Gerasim A., Cleveland, Ohio. Fishhook. 2,425,587; Aug. 12.
- Zurcher, Paul, Ponca City, Okla. Paint. 2,427,082; Sept. 9.
- Zurcher, Paul, Ponca City, Okla., assignor to Continental Oil Company. Paint. 2,414,427; Jan. 14.
- Zuschlag, Theodore, West Englewood, N. J., assignor to Magnetic Analysis Corporation, Long Island City, N. Y. Testing of magnetic materials. 2,418,686; Apr. 8.
- Zuschlag, Theodore, West Englewood, N. J., assignor to Magnetic Analysis Corporation, Long Island City, N. Y. Electromagnetic testing. 2,429,336; Oct. 21.
- Zwicker Knitting Mills, assignee: *See*—  
Wirtz, Emery F.
- Zwickl, Joseph R., East Orange, assignor to Worthington Pump and Machinery Corporation, Harrison, N. J. Oil separator in a refrigeration system. 2,418,962; Apr. 15.
- Zwicky, Fritz: *See*—  
Rutishauser, Hans, Brumfield, and Zwicky.
- Zworykin, Vladimir K., Princeton, N. J., assignor to Radio Corporation of America. Television system. 2,415,059; Jan. 28.
- Zwoyer, Walter R., Maywood, N. J., assignor to Transparent-Wrap Machine Corporation, New York, N. Y. Automatic packaging machine. 2,419,982; May 6.



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## LIST OF DESIGN PATENTEEES

- Abel, Myer, Hamilton County, Ohio. Doll. 147,948; Nov. 25.
- Abramson, Nathan, New York, N. Y., assignor to Presto Electric Co., Union City, N. J. Chime signal. 146,550; Apr. 5.
- Accumatool Co., Inc., assignee: *See*—Bentzman, Louis.
- Acme Aluminum Mfg. Co., assignee: *See*—Cohen, Henry B.
- Adams, Louis D., and N. Poplin, Ponca City, Okla., assignors to Pachner & Koller, Inc., Chicago, Ill. Fish lure. 147,101; July 15.
- Adams, Louis D., and N. G. Poplin, Ponca City, Okla., assignors to Pachner & Koller, Inc., Chicago, Ill. Fish lure. 147,102; July 15.
- Adams, Wilbur H., Millcreek Township, Erie County, Pa. Food dispenser. 146,551; Apr. 8.
- Adams, William E., assignor to Herring-Hall-Marvin Safe Company, Hamilton, Ohio. Combined bank vault door and frame. 146,459; Mar. 18.
- Adel Precision Products Corp., assignee: *See*—Morehouse, Eugene M.  
Storm, Frederick K.
- Adler, Allan, Burbank, Calif. Spoon or similar article. 146,165; Jan. 7.
- Admiral Corporation, assignee: *See*—Zeller, Albert, Jr.
- Advance Lamp Co., assignee: *See*—Frontier, Albert E.
- Airquipment Company, assignee: *See*—Olivarez, John L.
- Alamo Pottery, Inc., assignee: *See*—Homan, Harold T.
- Alan, Richard, Inc., assignee: *See*—Glaser, Alex.
- Albrecht, G. F., assignee et al.: *See*—Brickson, Obert H.
- Albrecht, P. K., assignee, et al.: *See*—Brickson, Obert H.
- Aleks, Vytant, assignor to Ebaloy, Incorporated, Rockford, Ill. Juice extractor. 147,483; Sept. 16.
- Aleks, Vytant, assignor to Ebaloy, Incorporated, Rockford, Ill. Meat tendering device. 148,005; Dec. 2.
- Allen, John S., Montgomery, Ala. Bottle or article of similar nature. 147,630; Oct. 14.
- Allen, Paul E., Skokie, and E. W. Beatty, assignors to Baby's Pal Company, Chicago, Ill. Lamp or similar article. 147,774; Nov. 4.
- Allied Plastics Company, assignee: *See*—Crane, Walton B.
- Allison, Walter D., Montrose, Colo. Saddle. 146,398; Feb. 25.
- Alpers, William F., Los Angeles, Calif. Desk. 147,523; Sept. 23.
- Altherr, Gilbert H., and N. E. Nelson, Dayton, Ohio. Airplane. 147,171; July 22.
- American Bankers Association, The, assignee: *See*—Mach, John B., Jr.
- American Blower Corporation, assignee: *See*—Koch, John B.
- American Car and Foundry Company, assignee: *See*—Kuhler, Otto.
- American Chicle Co., assignee: *See*—Everett, Julian G.
- American Coach and Body Company, The, assignee: *See*—Holan, James H., Jr., and Troche.
- American Gas Machine Company, assignee: *See*—Schory, Kenneth P.
- American Greeting Publishers Inc., assignee: *See*—Stone, Morris S.
- American Metalcraft Corporation, assignee: *See*—Wheeler, John D.
- American Optical Company, assignee: *See*—Armbruster, John T., and Barton.  
Gagnon, Louis L.  
Splaine, Edward M.
- American Safety Razor Corporation, assignee: *See*—Landwehr, Richard F.
- American Type Founders, Incorporated, assignee: *See*—Hacker, Fred A.
- Analyte Instruments, Inc., assignee: *See*—Gould, Albert.
- Anderson, Arnold L., Attleboro, Mass. Extensible chain for a bracelet or similar article. 147,484; Sept. 16.
- Anderson, Olof V., Cowesett, R. I. Tie holder. 146,758; May 13.
- Anderson, Olof V., Cowesett, R. I. Tie holder. 146,842; June 3.
- Anderson, Olof V., Cowesett, R. I. Tie holder. 146,843; June 3.
- Anderson, Robert I., Grand Haven, and B. Hoeker, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill. Combined score table and score projector or similar article. 147,211; July 29.
- Anderson, Robert I., Grand Haven, and B. Hoeker, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill. Billiard table or the like. 148,119; Dec. 23.
- Anderson, Robert I., Grand Haven, and B. Hoeker, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill. Billiard table or the like. 148,120; Dec. 23.
- Anderson, Robert I., Grand Haven, and B. Hoeker, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill. Bowling ball rack or the like. 148,121; Dec. 23.
- Anderson, Robert I., Grand Haven, and B. Hoeker, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill. Bowling ball rack or the like. 148,122; Dec. 23.
- Anderson, Roger, Seattle, Wash. Surgical table. 147,741; Oct. 28.
- Anderson, Theresa: *See*—Jacobs, Alexander H., and Anderson.
- Andreau, Jean E., Daurat, near Leogman, France. Automobile. 146,206; Jan. 14.
- Anemostat Corporation of America, assignee: *See*—Phillips, Leonard R.
- Apex Electrical Manufacturing Co., The, assignee: *See*—Chapman, David.
- Apicella, Anthony, New York, N. Y. Lapel button or similar article. 147,389; Sept. 2.
- Appel, Robert, New York, N. Y. Lady's handbag or similar article. 147,631; Oct. 14.
- Appell, Lewis and N., New York, N. Y. Occasional table. 147,775; Nov. 4.
- Appell, Nathaniel: *See*—Appell, Lewis and N.
- Appling, Charles E.: *See*—Kalnitz, Nelson, and Appling.
- Aquilino, Antonio, Providence, R. I. Brooch. 146,552; Apr. 8.
- Aquilino, Antonio, Providence, R. I. Brooch. 146,553; Apr. 8.
- Aquilino, Antonio, Providence, R. I. Brooch. 146,635; Apr. 22.
- Arakelian, K. Inc., assignee: *See*—Hollander, Eugene.
- Arenberg, Albert L., Highland Park, assignor to Patent License Corporation, Chicago, Ill. Combined luggage rack and lighting fixture. 148,208; Dec. 30.
- Armbruster, John T., Niagara Falls, N. Y. Trundle toy. 146,332; Feb. 11.
- Armbruster, John T., Niagara Falls, N. Y., assignor to American Optical Company, Southbridge, Mass. Surgical lamp. 147,312; Aug. 19.
- Armbruster, John T., Niagara Falls, N. Y., and C. W. Barton, Fort Erie, Ontario, Canada, assignors to American Optical Company, Southbridge, Mass. Microscope. 148,123; Dec. 23.
- Armbruster, John T., Niagara Falls, N. Y., and C. W. Barton, Fort Erie, Ontario, Canada, assignors to American Optical Company, Southbridge, Mass. Microscope. 148,124; Dec. 23.
- Armour Research Foundation, assignee: *See*—Nichols, Wendfrey C.
- Arneemann, Arthur W., Chicago, Ill. Toy bank. 147,714; Oct. 21.
- Arnold, Elmer K., assignor to The One Knatt Company, Inc., La Porte, Ind. Christmas decoration. 148,209; Dec. 30.
- Arpels, Claude, New York, N. Y. Jewelry finding. 146,844; June 3.
- Arpels, Claude, New York, N. Y. Combined wrist watch and bracelet. 147,103; July 15.
- Arpels, Claude, New York, N. Y. Brooch or similar article. 147,390; Sept. 2.
- Arpels, Claude, New York, N. Y. Brooch or similar article. 147,391; Sept. 2.
- Arpels, Claude, New York, N. Y. Earring. 147,392; Sept. 2.
- Arpels, Claude, New York, N. Y. Necklace. 147,393; Sept. 2.
- Arpels, Claude, New York, N. Y. Necklace. 148,042; Dec. 9.
- Arrow Manufacturing Company, Incorporated, assignee: *See*—Guttman, John B.
- Ash, Charles S., Milford, Mich. Motor vehicle cab. 147,632; Oct. 14.



- Associated Products, Inc., assignee: *See*—  
 Jones, Richard C.  
 Asteroff, J. Leah, New York, N. Y. Dress. 147,949; Nov. 25.  
 Atchison, Albert A., assignor of one-half to H. D. Glascock, Hercules, Calif. Smoking pipe. 147,172; July 22.  
 Atlantic Greyhound Corporation, assignee: *See*—  
 Hightower, John P.  
 Atlas Supply Company, assignee: *See*—  
 Folk, Irvin W.  
 Augenstein, Karl C., Cranston, assignor to Speidel Corporation, Providence, R. I. Bracelet or the like. 148,125; Dec. 23.  
 Austin, Harold J., Scarsdale, assignor to Liebmann Breweries, Inc., Brooklyn, N. Y. Tap knob or similar article. 147,033; July 8.  
 Axel, Alfred, New York, N. Y. Brooch pin or similar article. 146,425; Mar. 4.  
 Ayres, Francis L.: *See*—  
 Fossum, Erling G., and Ayres.  
 Ayres, Francis L., assignor to Stewart-Warner Corporation, Chicago, Ill. Oil bar. 147,359; Aug. 26.  
 Ayres, Samuel, Jr., Marblehead, assignor to Towle Manufacturing Company, Newburyport, Mass. Fork or analogous article. 146,207; Jan. 14.  
 Aztec Supply Co., assignee: *See*—  
 Goddard, Raymond J., and Dalkoff.  
 B & V New Products Company, assignee: *See*—  
 Walker, George W., and Baldwin.  
 Baby's Pal Company, assignee: *See*—  
 Allen, Paul E., and Beatty.  
 Baby World Company, Inc., assignee: *See*—  
 Daniels, Alan.  
 Bach, Alfons, Stamford, Conn., assignor to National Manufacturing Corporation, New York, N. Y. Kitchen table. 146,845; June 3.  
 Bach, Alfons, Stamford, Conn., assignor to National Manufacturing Corporation, New York, N. Y. Kitchen table. 146,846; June 3.  
 Bach, Alfons, Stamford, Conn., assignor to Syracuse Ornamental Co., Inc., Syracuse, N. Y. Tray. 147,360; Aug. 26.  
 Bach, Alfons, Stamford, Conn., assignor to Syracuse Ornamental Co. Inc., Syracuse, N. Y. Bowl. 148,006; Dec. 2.  
 Bach, Alfons, Stamford, Conn., assignor to Syracuse Ornamental Co. Inc., Syracuse, N. Y. Candle base. 148,043; Dec. 9.  
 Bach, Alfons, Stamford, Conn., assignor to Syracuse Ornamental Co. Inc., Syracuse, N. Y. Box. 148,044; Dec. 9.  
 Bachmann Bros., Inc., assignee: *See*—  
 McNeill, Albert G.  
 Wilson, Arthur W.  
 Backelman, Murray M., New York, N. Y. Crib toy or similar article. 147,776; Nov. 4.  
 Badger Glove and Slipper Company, assignee: *See*—  
 Klenzie, Raymond J.  
 Vogl, John J.  
 Bagur, Pierre S., Sr., New Orleans, La. Ash tray or similar article. 146,166; Jan. 7.  
 Bailey, Candus R., Lewiston, Idaho. Toy cat or the like. 146,892; June 10.  
 Bain, Angus D., Glen Ellyn, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Bottom for bowling ball bags or the like. 147,777; Nov. 4.  
 Balcrank, Inc., assignee: *See*—  
 Lange, Homer A.  
 Baldwin, Basil G.: *See*—  
 Walker, George W., and Baldwin.  
 Ballard, Wade E., assignor to Modern Plastic Co., Los Angeles, Calif. Condiment dispenser set. 146,275; Jan. 28.  
 Ballard, Wade E., assignor to Modern Plastic Co., Los Angeles, Calif. Condiment dispenser set. 146,733; May 6.  
 Bamberger, Alfred A., Flushing, assignor to Speedo Manufacturing Co., Inc., New York, N. Y. Rotary tool chuck head or similar article. 148,210; Dec. 30.  
 Bamberger, Alfred A., Flushing, assignor to Speedo Manufacturing Co., Inc., New York, N. Y. Rotary tool chuck head or similar article. 148,211; Dec. 30.  
 Banner Products Company, assignee: *See*—  
 Panik, Joseph J.  
 Bannister, Harry T., Royal Oak, assignor to Chrysler Corporation, Highland Park, Mich. Automobile bumper guard. 147,606; Oct. 7.  
 Bannister, Harry T., Royal Oak, assignor to Chrysler Corporation, Highland Park, Mich. Automobile grille bar. 146,893; June 10.  
 Bannister, Harry T., Royal Oak, assignor to Chrysler Corporation, Highland Park, Mich. Lens housing. 147,104; July 15.  
 Bannister, Harry T., Royal Oak, assignor to Chrysler Corporation, Highland Park, Mich. Lamp lens. 147,573; Sept. 30.  
 Bannister, Harry T., Royal Oak, assignor to Chrysler Corporation, Highland Park, Mich. Automobile grille bar. 147,607; Oct. 7.  
 Baranow, Lewis, Los Angeles, Calif. Finger ring. 146,783; May 20.  
 Barberian, Robert V., Seattle, Wash. Pipe. 147,034; July 8.  
 Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Brooch or similar article. 147,485; Sept. 16.  
 Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Brooch or similar article. 147,574; Sept. 30.  
 Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Brooch or similar article. 147,575; Sept. 30.  
 Barbieri, Nicholas, Providence, R. I., assignor to Uncas Manufacturing Company. Brooch or similar article. 147,576; Sept. 30.  
 Bardach, Paul, Providence, R. I. Jewelry clasp. 148,126; Dec. 23.  
 Barlett, John E., Los Angeles, Calif. Watch support. 147,002; July 1.  
 Barlow, George W., Aberdeen, Wash. Combined poker chip holder and coaster. 147,524; Sept. 23.  
 Barrett, Howard J., Philadelphia, Pa. Sled. 146,934; June 17.  
 Barrios, Elvira B., New York, N. Y. Perfume bottle or similar article. 147,313; Aug. 19.  
 Bartlett, Ivan, Long Beach, Calif., assignor to Edgar C. Hyman Co., New York, N. Y. 146,821; May 27.  
 Barton, Charles W.: *See*—  
 Armbruster, John T., and Barton.  
 Baskette, Ernest W.: *See*—  
 Spies, Bert E., and Baskette.  
 Basso, Rudolph V., Medical Lake, Wash. Clock case. 146,208; Jan. 14.  
 Bates, Irven B., Los Angeles, Calif. Food tray or similar article. 146,697; Apr. 29.  
 Batko, Emanuel T., assignor to Roxy Manufacturing Company, Chicago, Ill. Walker. 147,633; Oct. 14.  
 Baubie, Rex O., and V. J. McKendry, assignors to Florida Rod and Manufacturing Co., Detroit, Mich. Fishing rod handle. 146,636; Apr. 22.  
 Bauer, William, assignor to The Tappan Stove Company, Mansfield, Ohio. Cooking range. 147,486; Sept. 16.  
 Bausch & Lomb Optical Company, assignee: *See*—  
 Flint, Edward F.  
 Baxter, Ernest W., Bradford, Pa. Smoking pipe. 146,209; Jan. 14.  
 Beacon Products Corporation, assignee: *See*—  
 Richmond, Solomon S.  
 Beard, Charles L., Lancaster, Pa. Germicidal lamp. 146,244; Jan. 21.  
 Beatty, Edward W.: *See*—  
 Allen, Paul E., and Beatty.  
 Beck, William A., Itasca, Ill., assignor to Ekco Products Company. Cooking utensil. 146,734; May 6.  
 Becker, Rodger F., Kalamazoo, Mich. Flashlight. 147,258; Aug. 12.  
 Beckwith, Edwin L., West Newton, Mass. High chair. 147,828; Nov. 11.  
 Beckwith, Edwin L., West Newton, Mass., assignor to Beckwith Manufacturing Company, Dover, N. H. Ash tray. 147,829; Nov. 11.  
 Beckwith Manufacturing Company, assignee: *See*—  
 Beckwith, Edwin L.  
 Howard, Edwin A.  
 Beder, Samuel L., New York, N. Y. Pounding toy. 146,245; Jan. 21.  
 Beder, Samuel L., Bronx, N. Y. Matching toy. Re. 146,296; Feb. 4.  
 Bell & Howell Company, assignee: *See*—  
 Knutson, Norman T.  
 Reinecke, Jean O.  
 Belle, Barbara, New York, N. Y. Music information chart. 147,314; Aug. 19.  
 Belliveau, Arthur J.: *See*—  
 Davidio, Chester A., and Belliveau.  
 Bellville, Bernard, St. Louis, Mo. Child's rocker. 146,894; June 10.  
 Belz, Walter H.: *See*—  
 Harris, Sidney, and Belz.  
 Bendix Aviation Corporation, assignee: *See*—  
 Bingman, Robert E.  
 Burton, Frank C.  
 Erskine, Donald G.  
 Glover, James F.  
 Benninghofen, Paul, assignee, trustee, et al.: *See*—  
 Katz, Russell.  
 Bentley, Fred, Lansing, Mich. Shuttlecock. 146,460; Mar. 18.  
 Benton, Bernard M., assignee: *See*—  
 McCormack, Roy L.  
 Bentzinger, William E., Sioux Falls, S. Dak., assignor to General Time Instruments Corporation, New York, N. Y. Wall clock. 147,361; Aug. 26.  
 Bentzman, Louis, assignor to Accumatool Co., Inc., New York, N. Y. Tripod or similar article. 146,167; Jan. 7.  
 Benz, Cyril C., Los Angeles, Calif. Smoking pipe. 147,315; Aug. 19.  
 Benzel, Howard A., assignor to Scott Aviation Corporation, Lancaster, N. Y. Airplane control wheel. 147,608; Oct. 7.  
 Berger, Jakob, assignee: *See*—  
 Gottfried, Louis.  
 Berger, Martin, New York, N. Y. Toy rabbit. 146,428; Mar. 4.  
 Berger, Martin, assignor to Metro Toy Company, New York, N. Y. Toy dog. 146,426; Mar. 4.  
 Berger, Martin, assignor to Metro Toy Company, New York, N. Y. Toy horse. 146,427; Mar. 4.  
 Bernstein, Leo, assignor to Porto-Products, Inc., Chicago, Ill. Combination radio and smoking stand. 147,609; Oct. 7.



- Best, John H., & Sons, Inc., assignee: *See*—  
Best, Leon H.
- Best, Leon H., assignor to John H. Best & Sons, Inc., Galva, Ill. Combination article carrying and display device. 146,784; May 20.
- Better Packages Incorporated, assignee: *See*—  
Hillmer, Herman H.  
Krueger, Theodore H.
- Blenen, Herbert, New York, N. Y. Handbag. 147,487; Sept. 16.
- Billings, Everett W., Jr., Los Angeles, Calif. Tripod. 146,785; May 20.
- Blindman, Stanley, assignor to Noma Electric Corporation, New York, N. Y. Electrical connector plug. 147,634; Oct. 14.
- Binford, Julien, Fine Creek Mills, Va. Textile fabric. 146,590; Apr. 15.
- Binford, Julien, Fine Creek Mills, Va. Textile fabric. 146,591; Apr. 15.
- Binford, Julien, Fine Creek Mills, Va. Textile fabric. 147,715; Oct. 21.
- Bingman, Robert E., Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Radio cabinet or the like. 147,316; Aug. 19.
- Bingman, Robert E., Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Radio cabinet or the like. 148,045; Dec. 9.
- Birkhahn, Marguerite, New York, N. Y. Figurine. 147,635; Oct. 14.
- Birkhahn, Marguerite, New York, N. Y. Figurine. 147,716; Oct. 21.
- Birmingham Small Arms Company Limited, The, assignee: *See*—  
Taylor, William H.
- Birtman Electric Company, assignee: *See*—  
Karstadt, Clarence.
- Bitter, Dorothy, New York, N. Y. Chair or similar article. 146,343; Feb. 18.
- Bitter, Dorothy, New York, N. Y., assignor to Co-Pilot Corp. Child's car seat or similar article. 147,884; Nov. 18.
- Blake, Charles B., Pelham Manor, N. Y., assignor to Tiffany & Company. Spoon or analogous article. 146,494; Mar. 25.
- Blakeman, Guy J., Knob Lick, Ky. Pencil. 147,885; Nov. 18.
- Blanding Corporation, assignee: *See*—  
Sposith, Joseph A.
- Blandino, Maria, Brooklyn, N. Y. Raincoat or similar article. 148,127; Dec. 23.
- Blazey, Lawrence, Cleveland, assignor to The Enterprise Aluminum Company, Massillon, Ohio. Bun warmer. 147,950; Nov. 25.
- Blickle, Charles R., North Haven, Conn. Christmas tree ornament. 146,399; Feb. 25.
- Blickle, Charles R., North Haven, Conn. Christmas tree ornament. 146,400; Feb. 25.
- Blickle, Charles R., North Haven, Conn. Christmas tree ornament. 146,401; Feb. 25.
- Blickle, Charles R., North Haven, Conn. Christmas tree ornament. 146,402; Feb. 25.
- Blickle, Charles R., North Haven, Conn. Christmas tree ornament. 146,403; Feb. 25.
- Blickle, Charles R., North Haven, Conn. Christmas tree ornament. 146,424; Feb. 25.
- Block, Murray, New York, N. Y. Combined wallet and key holder. 147,225; Aug. 5.
- Blossom Manufacturing Co., assignee: *See*—  
Shulman, Matthew H.
- Blume, Pauline, New York, N. Y. Combined holder for decanter and glasses. 146,592; Apr. 15.
- Boeing Aircraft Company, assignee: *See*—  
Wells, Edward C.
- Bogoff, Herman, Chicago, Ill. Bracelet. 147,778; Nov. 4.
- Bogoff, Herman, Chicago, Ill. Bracelet. 147,779; Nov. 4.
- Bogoff, Herman, Chicago, Ill. Bracelet. 147,780; Nov. 4.
- Bogoff, Herman, Chicago, Ill. Bracelet. 147,886; Nov. 18.
- Boileau, Arthur H., Cedar Rapids, Iowa, assignor to Cherry-Burrell Corporation, Chicago, Ill. Valve. 148,102; Dec. 16.
- Boles Pen Co., Inc., assignee: *See*—  
Burge, Harry W.
- Bond Bonham, assignee: *See*—  
Steel, Edwin S.
- Bonkiewicz, Joseph S., Jr.: *See*—  
Tullgren, Lester C., and Bonkiewicz.
- Borders, William G., Bell, Calif. Toy tractor. 147,717; Oct. 21.
- Borg, George W., Corporation, The, assignee: *See*—  
Richardson, Rodney G.
- Borg-Warner Corporation, assignee: *See*—  
Keller, Leonard.
- Borst, Robert O., Pasadena, Calif. Mobile service vehicle. 147,105; July 15.
- Boston Wire Stitcher Company, assignee: *See*—  
Lindstrom, Charles M.
- Boucher, Marcel, New York, N. Y. Pin or similar article. 146,276; Jan. 28.
- Boucher, Marcel, New York, N. Y. Clip or similar article. 147,394; Sept. 2.
- Boucher, Marcel, New York, N. Y. Earring. 147,395; Sept. 2.
- Boucher, Marcel, New York, N. Y. Pin or similar article. 147,396; Sept. 2.
- Boucher, Marcel, New York, N. Y. Clip or similar article. 147,397; Sept. 2.
- Boucher, Marcel, New York, N. Y. Pin or similar article. 147,398; Sept. 2.
- Boucher, Marcel, New York, N. Y. Pin or similar article. 147,399; Sept. 2.
- Boucher, Marcel, New York, N. Y. Pin. 147,525; Sept. 23.
- Boucher, Marcel, New York, N. Y. Pin or similar article. 147,830; Nov. 11.
- Boucher, Marcel, New York, N. Y. Pin. 147,887; Nov. 18.
- Boucher, Marcel, New York, N. Y. Pin or similar article. 147,951; Nov. 25.
- Boucher, Marcel, New York, N. Y. Pin or similar article. 147,952; Nov. 25.
- Boucher, Marcel, New York, N. Y. Pin or similar article. 147,953; Nov. 25.
- Boucher, Marcel, New York, N. Y. Pin or similar article. 147,954; Nov. 25.
- Bowers, Bailey T., Chicago, Ill. Combined calendar, clock, and desk unit. 147,742; Oct. 28.
- Boyce, Alfred O., assignor to one-third to H. A. Downing, Minneapolis, Minn. Combination refrigerator and food freezing unit. 148,212; Dec. 30.
- Boyce, Eugene L., assignor to H. Goldberg, Chicago, Ill. Lawn mower head. 146,333; Feb. 11.
- Bradford, Arthur J., Wilmette, assignor to Motion Picture Engineering Corporation, Chicago, Ill. Picture projector. 146,935; June 17.
- Bradford, Arthur J., Wilmette, Ill., assignor to Motion Picture Engineering Corporation. Projection machine. 147,831; Nov. 11.
- Bradford, Arthur J., Wilmette, Ill., assignor to Motion Picture Engineering Corporation. Projection machine. 147,832; Nov. 11.
- Bradshaw, Herbert L., Seattle, Wash. Game board. 146,344; Feb. 18.
- Bradstock, Philip, Elyria, and S. S. Maier, Lorain, assignors to Guaranteed Products, Wellington, Ohio. Housing for electrical apparatus. 147,106; July 15.
- Brady, George B., Stamford, Conn. Playing card holder. 147,718; Oct. 21.
- Braeman, Aaron, Minneapolis, Minn. Combination automobile and airplane. 146,847; June 3.
- Brandt, Henry E., North St. Paul, Minn. Sprayer. 147,226; Aug. 5.
- Bratt, Bert J., Chicago, Ill. Game board. 147,610; Oct. 7.
- Braun, Carl C., Stamford, Conn., assignor to Smith Metal Arts Company, Inc., Buffalo, N. Y. Combined desk lamp and pencil tray. 147,636; Oct. 14.
- Braver, Allen: *See*—  
Lester, Morris I., Braver, and Lester.
- Breen, Cydney E., Los Angeles, Calif. Photographic printer or the like. 147,317; Aug. 19.
- Breitenstein, Charles T., assignor, by mesne assignments, to Holly Pen Corporation, Chicago, Ill. Fountain pen. 147,107; July 15.
- Brenner, Alexander E., Columbus, Ohio. Bar cabinet. 147,611; Oct. 7.
- Brickson, Obert H., assignor of one-third to G. F. Albrecht, one-third to P. K. Albrecht, and one-third to A. A. Kreutzer, Madison, Wis. Milk truck or similar article. 146,848; June 3.
- Brilhart, Arnold, Ltd., assignee: *See*—  
Galehouse, Clark F.
- Bristol Steel & Iron Works, Inc., assignee: *See*—  
Ferguson, Robert O.
- Brockman, Arthur W., Villa Park, assignor to J. P. Seeburg Corporation, Chicago, Ill. Speaker unit cabinet. 147,833; Nov. 11.
- Brockriede, Charles I., Columbiaville, Mich. Milk truck. 147,637; Oct. 14.
- Brogan, Frank, Cincinnati, Ohio. Scooter or similar article. 148,046; Dec. 9.
- Brohard, Montie M., Jr., Cincinnati, Ohio. Shirt. 146,895; June 10.
- Brooks, Harry W., Fountain City, assignor to Harry W. Brooks Company, Knoxville, Tenn., a co-partnership consisting of H. W. Brooks and L. Hurley. Lamp or similar article. 146,297; Feb. 4.
- Brooks, Harry W., Company, assignee: *See*—  
Brooks, Harry W.
- Brotman, Hyman D., assignee: *See*—  
Walker, George W.
- Brottman, Samuel G., Minneapolis, Minn. Shopping cart. 148,128; Dec. 23.
- Brown, Albert D., Atlanta, Ga. Disposable razor. 146,759; May 13.
- Brown, Alexander P., Beechhurst, N. Y. Case for piano or the like. 146,345; Feb. 18.
- Brown, Alexander P., Beechhurst, Long Island, N. Y. Piano or similar article. 146,637; Apr. 22.
- Brown, Alexander P., Beechhurst, Long Island, N. Y. Piano or similar article. 146,638; Apr. 22.
- Brown, Alexander P., Beechhurst, Long Island, N. Y. Piano or similar article. 146,639; Apr. 22.
- Brown, Alexander P., Beechhurst, Long Island, N. Y. Piano or similar article. 147,426; Sept. 9.
- Brown, Frank L., Lawrence, Kans. Game board. 147,955; Nov. 25.
- Brown, Fred R., Dallas, Tex. Drafting instrument. 147,526; Sept. 23.



- Brown, George F., Salamanca, assignor to Diamond Craft of America, New York, N. Y. Jewelry box or similar article. 146,346; Feb. 18.
- Brown, Susan S.: *See*—  
Mitchell, Jeanette F., and Brown.
- Brown, Violet, Wrentham, Mass., assignor to R. M. Jordan & Company, Inc. Figurine or the like. 147,834; Nov. 11.
- Brown, Violet, Wrentham, Mass., assignor to R. M. Jordan & Company, Inc. Figurine or the like. 147,835; Nov. 11.
- Brunetti, Joseph, Carlstadt, assignor to Plastic Art Toy Corporation of America, Rutherford, N. J. Teapot or similar article. 146,593; Apr. 15.
- Brunswick-Balke-Collender Company, The, assignee: *See*—  
Anderson, Robert I., and Hoeker.  
Bain, Angus D.
- Bryant, A. Hager, Jr., assignee: *See*—  
Doss, John E., Jr.
- Buck, Joshua E., Revere, Mass. Combined cigarette and match container. 146,169; Jan. 7.
- Buczkowski, Paul, Detroit, Mich. Teeter-totter. 146,168; Jan. 7.
- Buda, Benjamin: *See*—  
Stevens, Linda, and Buda.
- Budlong, Robert D., Skokie, Ill., assignor to Zenith Radio Corporation. Radio cabinet. 146,170; Jan. 7.
- Budlong, Robert D., Skokie, Ill., assignor to Zenith Radio Corporation. Radio cabinet. 146,210; Jan. 14.
- Budlong, Robert D., Skokie, Ill., assignor to Zenith Radio Corporation. Radio cabinet. 146,404; Feb. 25.
- Budlong, Robert D., Skokie, Ill., assignor to Zenith Radio Corporation. Radio cabinet. 146,640; Apr. 22.
- Bundy, William C., West Los Angeles, Calif. Covered receptacle. 146,405; Feb. 25.
- Bunting Glider Company, assignee: *See*—  
Roth, Andrew.
- Burck, George R., Washington, D. C. Rosary. 147,956; Nov. 25.
- Bureau, Achille G., Forest Hills, assignor to Ranger-Tennere, Inc., New York, N. Y. Combined coaster set and holder therefor. 146,246; Jan. 21.
- Burge, Harry W., Overland, assignor to Boles Pen Co., Inc., St. Louis, Mo. Fountain pen. 148,129; Dec. 23.
- Burger, Charles H., assignor to Dermetics, Inc., New York, N. Y. Combined bottle and cap. 148,047; Dec. 9.
- Burger, Charles H., assignor to Dermetics, Inc., New York, N. Y. Combined bottle and holder. 148,048; Dec. 9.
- Burns, Edward J., Pittsfield, Vt. Andiron. 147,957; Nov. 25.
- Burton, Edward F., Los Angeles, and C. C. Wood, Brentwood Heights, assignors to Douglas Aircraft Company, Inc., Santa Monica, Calif. Airplane. 147,836; Nov. 11.
- Burton, Frank C., Grand Rapids, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Radio cabinet or the like. 146,641; Apr. 22.
- Burton, Frank C., Grand Rapids, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Radio cabinet or the like. 146,849; June 3.
- Busker, Frank D., Libertyville, Ill. Combined toothbrush and tumbler holder. 147,638; Oct. 14.
- Butterworth, Frank, Belmont, assignor to Spencer Shoe Corporation, Boston, Mass. Store front. 146,554; Apr. 8.
- Byrne, Francis D.: *See*—  
Rosenberg, Joseph, and Byrne.
- Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Lamp lens. 146,247; Jan. 21.
- Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Lens housing. 146,248; Jan. 21.
- Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Lens housing. 146,249; Jan. 21.
- Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Lens housing. 146,250; Jan. 21.
- Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Lamp housing. 146,251; Jan. 21.
- Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Lamp lens. 146,252; Jan. 21.
- Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Lens housing. 146,253; Jan. 21.
- Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Lamp lens. 146,254; Jan. 21.
- Cadwallader, Robert, Detroit, Mich. Lens housing. 146,255; Jan. 21.
- Cadwallader, Robert, Detroit, Mich. Automobile trim bar. 146,534; Apr. 1.
- Cadwallader, Robert, Detroit, Mich. Automobile grille bar. 146,535; Apr. 1.
- Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Lens housing. 147,108; July 15.
- Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Automobile radiator grille bar. 147,527; Sept. 23.
- Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Automobile grille panel. 147,528; Sept. 23.
- Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Fender. 147,529; Sept. 23.
- Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Fender. 147,530; Sept. 23.
- Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Fender. 147,531; Sept. 23.
- Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Fender. 147,532; Sept. 23.
- Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Lamp lens. 147,577; Sept. 30.
- Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Lamp lens. 147,578; Sept. 30.
- Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Automobile bumper guard. 147,612; Oct. 7.
- Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Combined automobile headlamp lens housing and grille. 147,837; Nov. 11.
- Cadwallader, Robert, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Automobile grille panel. 147,838; Nov. 11.
- Cain, Thelma: *See*—  
Mason, Roslyn S., and Cain.
- Caldwell, Leo, Los Angeles, Calif. Knife. 148,049; Dec. 9.
- California Research Corporation, assignee: *See*—  
Jaehne, Alfred H.
- Cambron, John R., Dayton, Ohio. Draftsman's templet. 147,743; Oct. 28.
- Camerino, Ernest, New York, N. Y. Oil burner housing. 147,888; Nov. 18.
- Camerino, Ernest and W. R., New York, N. Y. Oil burner housing. 147,488; Sept. 16.
- Camerino, William R.: *See*—  
Camerino, Ernest and W. R.
- Cameron, Donald W. A., Musbury, Axminster, England. Combined electric lampstand and clock. 147,533; Sept. 23.
- Campfield Manufacturing Company, assignee: *See*—  
Jackson, George McS.
- Camp, Dewey W., Jackson, and O. B. Loper, Hattiesburg, Miss. Game board. 146,786; May 20.
- Campbell, Laurie J., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Jewelry pin or similar article. 146,896; June 10.
- Campbell, Laurie J., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Lip rouge make-up unit. 147,259; Aug. 12.
- Campbell, Laurie J., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Jewelry pin or similar article. 147,362; Aug. 26.
- Campbell, Laurie J., Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Combined lipstick holder and perfume holder. 147,579; Sept. 30.
- Capitani, Luciano, Aliquippa, Pa. Ash tray stand. 147,958; Nov. 25.
- Carbonara, Victor E., Manhasset, N. Y., assignor to Square D Company, Detroit, Mich. Binocular. 148,130; Dec. 23.
- Carlson, David E., assignor to Carlson & Mikkola, Inc., Minneapolis, Minn. Finger ring. 148,213; Dec. 30.
- Carlson & Mikkola, Inc., assignee: *See*—  
Carlson, David E.
- Carnegie-Illinois Steel Corporation, assignee: *See*—  
Zavada, Frank J.
- Carpenter, Augustus, Company, The, assignee: *See*—  
Carpenter, Ernest S.
- Carpenter, Edgar O., Van Nuys, Calif. Cheese cutter. 148,131; Dec. 23.
- Carpenter, Ernest S., Shaker Heights, assignor to The Augustus Carpenter Company, Cleveland, Ohio. Motion-picture projector. 146,171; Jan. 7.
- Carpenter, Harry L., Kalamazoo, Mich., assignor to Crystal Manufacturing Co., Inc. Merchandise display case. 147,719; Oct. 21.
- Carpenter, James M., Atlantic City, N. J. Shoe. 147,318; Aug. 19.
- Carpenter, John R., assignor to Price Industries Corporation, New York, N. Y. Portable developing tank. 146,760; May 13.
- Carpenter, Thelma M., Brentwood, Pa. Slipper. 146,735; May 6.
- Carr, Sydney R., Palo Alto, Calif. Dog statuette. 146,298; Feb. 4.
- Carter, Cecil F., New York, N. Y. Bracelet. 147,227; Aug. 5.
- Carter, Jess W., and A. E. Saunders, Los Angeles, Calif. Marble-game toy. 146,787; May 20.
- Carter, John F., Bryan, Ohio. Radiator faucet or similar article. 147,889; Nov. 18.
- Century Scientific Products, Inc., assignee: *See*—  
Shields, Robert W.
- Chalk, Benjamin, New York, N. Y. Coat. 148,132; Dec. 23.
- Chalom, Maurice, assignor to Gloria Vanderbilt Corporation, New York, N. Y. Lipstick case. 146,172; Jan. 7.



- Chambers, Howard E., Seattle, Wash. Waffle iron. 147,782; Nov. 4.
- Chambers, Paul A., assignor of one-half to L. E. Harris, Santa Monica, Calif. Combined signal light and rear view mirror. 147,639; Oct. 14.
- Chamness, James F., Dwight, Ill. Electric lamp stand or the like. 146,555; Apr. 8.
- Chamness, James F., Dwight, Ill. Electric lamp stand or the like. 146,556; Apr. 8.
- Chaplain, Urleene, Los Angeles, Calif. Shoe or similar article. 147,003; July 1.
- Chapman, Dave, assignor to Club Aluminum Products Co., Chicago, Ill. Tea kettle. 147,781; Nov. 4.
- Chapman, Dave, assignor to Club Aluminum Products Co., Chicago, Ill. Tea kettle. 147,959; Nov. 25.
- Chapman, David, Chicago, Ill., assignor to The Apex Electrical Manufacturing Co., Cleveland, Ohio. Washing machine casing. 146,334; Feb. 11.
- Chapman, Howard D., Tulsa, Okla. Permanent wave machine. 147,319; Aug. 19.
- Char-Lynn Co., assignee: *See—*  
Darr, Harold W.
- Chase, Jacob C., assignee: *See—*  
Driscoll, Desmond J.
- Chazin, Louis, Brooklyn, N. Y. Table caster. 146,850; June 3.
- Cheney, Rose A., Savannah, Ga. Hooded storm coat for dogs. 146,698; Apr. 29.
- Chernow, Michael, New York, N. Y. Bracelet or the like. 146,299; Feb. 4.
- Chernow, Michael, New York, N. Y. Brooch or similar article. 146,461; Mar. 18.
- Chernow, Michael, New York, N. Y. Link chain for a bracelet or similar article. 146,462; Mar. 18.
- Chernow, Michael, New York, N. Y. Link chain for a bracelet or similar article. 146,463; Mar. 18.
- Chernow, Michael, New York, N. Y. Earring or similar article. 146,464; Mar. 18.
- Chernow, Michael, New York, N. Y. Earring or similar article. 146,495; Mar. 25.
- Chernow, Michael, New York, N. Y. Earring or similar article. 146,496; Mar. 25.
- Chernow, Michael, New York, N. Y. Earring or similar article. 146,699; Apr. 29.
- Chernow, Michael, New York, N. Y. Bracelet or the like. 146,761; May 13.
- Chernow, Michael, New York, N. Y. Earring or the like. 146,762; May 13.
- Chernow, Michael, New York, N. Y. Earring or similar article. 146,851; June 3.
- Chernow, Michael, New York, N. Y. Jewelry finding. 146,852; June 3.
- Chernow, Michael, New York, N. Y. Earring or similar article. 146,936; June 17.
- Chernow, Michael, New York, N. Y. Bracelet or similar article. 147,004; July 1.
- Chernow, Michael, New York, N. Y. Bracelet or similar article. 147,005; July 1.
- Chernow, Michael, New York, N. Y. Earring or similar article. 147,109; July 15.
- Chernow, Michael, New York, N. Y. Jewelry finding or similar article. 147,400; Sept. 2.
- Chernow, Michael, New York, N. Y. Earring or similar article. 147,580; Sept. 30.
- Chernow, Michael, New York, N. Y. Bracelet or the like. 147,839; Nov. 11.
- Chernow, Michael, New York, N. Y. Link chain for a bracelet or similar article. 147,840; Nov. 11.
- Chernow, Michael, New York, N. Y. Bracelet or similar article. 148,007; Dec. 2.
- Chernow, Michael, New York, N. Y. Bracelet or similar article. 148,008; Dec. 2.
- Chernow, Michael, New York, N. Y. Earring or similar article. 148,133; Dec. 23.
- Chernow, Michael, New York, N. Y. Earring or similar article. 148,134; Dec. 23.
- Chernow, Michael, New York, N. Y. Earring or similar article. 148,135; Dec. 23.
- Chernow, Michael, New York, N. Y. Earring or similar article. 148,136; Dec. 23.
- Chernow, Michael, New York, N. Y. Earring or similar article. 148,137; Dec. 23.
- Chernow, Michael, New York, N. Y. Earring or similar article. 148,138; Dec. 23.
- Chernow, Michael, New York, N. Y. Earring or similar article. 148,139; Dec. 23.
- Chernow, Michael, New York, N. Y. Earring or similar article. 148,140; Dec. 23.
- Chernow, Michael, New York, N. Y. Earring or similar article. 148,141; Dec. 23.
- Chernow, Michael, New York, N. Y. Earring or similar article. 148,142; Dec. 23.
- Chernow, Michael, New York, N. Y. Brooch or similar article. 148,143; Dec. 23.
- Chernow, Michael, New York, N. Y. Jewelry finding. 148,144; Dec. 23.
- Cherry-Burrell Corporation, assignee: *See—*  
Boileau, Arthur H.
- Chicago Printed String Co., assignee: *See—*  
Olsen, Clarence S.
- Chifari, Andrew D., Brooklyn, N. Y. Combined wrist watch and holder therefor. 146,300; Feb. 4.
- Childs, Woodrow M., Oakland, Calif. Game board. 146,736; May 6.
- Christensen, Albert E., Cleveland, Ohio. Pipe. 147,035; July 8.
- Chrysler Corporation, assignee: *See—*  
Bannister, Harry T.  
Cadwallader, Robert.
- Cincinnati Metalcrafts, Inc., assignee: *See—*  
Kratz, Clinton H.
- Clairmonte, Clive M.: *See—*  
Clairmonte, Edward H. and C. M.
- Clairmonte, Edward H. and C. M., London, England. Baby's chair. 146,347; Feb. 18.
- Clark, Robert A., Jr., Chicago, Ill. Lamp fixture. 146,897; June 10.
- Clarke Sanding Machine Company, assignee: *See—*  
Clausen, De Witt.
- Clausen, De Witt, Akron, Ohio, assignor to Clarke Sanding Machine Company, Muskegon, Mich. Floor polisher. 147,890; Nov. 18.
- Clingan, Frank H.: *See—*  
Pretzer, Bert C., and Clingan.
- Clippard, Sophie W., Columbia, S. C. Palette unit. 146,348; Feb. 18.
- Club Aluminum Products Co., assignee: *See—*  
Chapman, Dave.
- Clymer, Jay P.: *See—*  
Schwan, August R., and Clymer.
- Coca-Cola Company, assignee: *See—*  
Loewy, Raymond.
- Coca-Cola Company, The, assignee: *See—*  
Lehman, James W.
- Cocke, Harold E., Oakland, Calif. Butter cutter. 146,822; May 27.
- Coe, Herbert A., Port Washington, N. Y. Cosmetic container. 147,110; July 15.
- Coe, Herbert A., Port Washington, N. Y. Clock. 147,111; July 15.
- Coe, Herbert A., Port Washington, N. Y. Clock. 147,112; July 15.
- Cohen, Henry B., assignor to Acme Aluminum Mfg. Co., New York, N. Y. Butter slicer or the like. 147,401; Sept. 2.
- Cohen, Sidney, New York, N. Y. Suit. 147,784; Nov. 4.
- Cohen, Sidney, New York, N. Y. Suit. 148,050; Dec. 9.
- Cohn, Gustave, Hartsdale, N. Y. Slipper. 146,700; Apr. 29.
- Cohn, Gustave, Hartsdale, N. Y. Slipper. 146,701; Apr. 29.
- Cohn, Gustave, Hartsdale, N. Y. Slipper. 146,702; Apr. 29.
- Colangelo, Vincent, New York, N. Y. Piano or similar article. 147,427; Sept. 9.
- Cole of California Inc., assignee: *See—*  
Laszlo, Margit F.
- Collura, Francesco: *See—*  
Polivka, John N., and Collura.
- Collura, Francesco, New York, N. Y. Electric iron. 146,256; Jan. 21.
- Colomy, Roy H., Springdale, Conn., assignor to E. Hyman, New York, N. Y. Fountain pen. 146,335; Feb. 11.
- Columbia Protektosite Company, Inc., assignee: *See—*  
Lux, Eugene J.
- Columbia Protektosite Co., Inc., assignee: *See—*  
Utley, Lewis S.
- Columbian Rope Company, assignee: *See—*  
Cook, Charles S., and Wilson.  
Prem, Helen E.
- Communication Equipment and Engineering Company, assignee: *See—*  
Phelps, George.
- Congoleum-Nairn Inc., assignee: *See—*  
Stephenson, Charles E.
- Conner, Frank E., Jr.: *See—*  
Gibbs, Thomas F., Conner, and Donahue.
- Conner, Robert W., East Brookfield, Mass. Vegetable and storage cabinet. 147,640; Oct. 14.
- Consolidated Molded Products Corporation: *See—*  
Jones, William T.  
Sanders, Louis.
- Consolidated Razor Blade Co. Inc., assignee: *See—*  
Hornung, Clarence P.
- Consolidated Vultee Aircraft Corporation, assignee: *See—*  
Smith, Kenneth E., and Tsongas.
- Cook, Charles S., and E. L. Wilson, assignors to Columbian Rope Company, Auburn, N. Y. Chaise longue. 147,489; Sept. 16.
- Cooley, Chester C.: *See—*  
Du Mais, Leo J., and Cooley, and Heck.
- Cooper, Earl H., Chicago, Ill. Cigarette holder. 146,301; Feb. 4.
- Cooper, Virgil K., North Hollywood, Calif. Clothespin or similar article. 146,937; June 17.
- Co-Pilot Corp., assignee: *See—*  
Bitter, Dorothy.
- Coro, Inc., assignee: *See—*  
Katz, Adolph.  
Verrecchio, Gene.
- Cosme, Peter A., assignor to Sears, Roebuck and Co., Chicago, Ill. Playground apparatus. 146,557; Apr. 8.
- Cosme, Peter A., assignor to Sears, Roebuck and Co., Chicago, Ill. Playground apparatus. 147,006; July 1.
- Coulter, Conrad R., Kansas City, Mo. Combination chair and table or like article. 147,581; Sept. 30.
- Couse, Kibbey W., Newark, N. J. Service motor truck. 147,841; Nov. 11.
- Cox, William F., Dallas, Tex. Belt. 147,744; Oct. 28.



- Crane, Claude B., Kansas City, Mo. Combined ash tray and holder for smokers' articles. 146,788; May 20.
- Crane Co., assignee: *See*—  
Skewils, William H.
- Crane, Edith F., Poughkeepsie, N. Y. Color harmony palette. 148,103; Dec. 16.
- Crane, Walton B., Beverly Hills, assignor to Allied Plastics Company, Los Angeles, Calif. Compact. 146,594; Apr. 15.
- Crane, Walton B., Beverly Hills, assignor to Allied Plastics Company, Los Angeles, Calif. Compact. 146,595; Apr. 15.
- Crane, Walton B., Beverly Hills, assignor to Allied Plastics Company, Los Angeles, Calif. Compact. 146,938; June 17.
- Cravaritis, Andrew, Roslyn, N. Y. Cocktail shaker. 147,113; July 15.
- Crawford, John R., Los Angeles, Calif. Lamp standard. 146,642; Apr. 22.
- Crawford, Maynard C., Los Angeles, Calif. Door pull. 147,892; Nov. 18.
- Crawford, Vera J., Washington, D. C. Dining bar. 147,891; Nov. 18.
- Cresale Incorporated, assignee: *See*—  
Kelly, Miles J.
- Crosby, Stephen A., and P. Zasadny, Chicago, Ill., assignors to Sterling Tool Products Company. Electric portable rubbing machine or the like. 147,783; Nov. 4.
- Crowley, Daniel J., Grosse Pointe, Mich. Combined lamp and radio receiving set. 147,428; Sept. 9.
- Crowley, Daniel J., Grosse Pointe, Mich. Combined lamp and radio receiving set. 147,429; Sept. 9.
- Crowley, Daniel J., Grosse Pointe, Mich. Combined lamp and radio receiving set. 147,430; Sept. 9.
- Crowley, Daniel J., Grosse Pointe, Mich. Combined lamp and radio receiving set. 147,431; Sept. 9.
- Crumb, Edgar A., Washington, D. C. Water pistol. 147,893; Nov. 18.
- Cruver Manufacturing Company, assignee: *See*—  
Henderson, David C.  
Lawson, James P.
- Crystal Manufacturing Co., Inc., assignee: *See*—  
Carpenter, Harry L.
- Cuccio, John D., Los Angeles, Calif. Baby walker or similar article. 147,320; Aug. 12.
- Curtis, Erland L., Ferndale, Mich. Doll. 148,214; Dec. 30.
- Curtiss-Wright Corporation, assignee: *See*—  
Wedberg, Frank A., and Steele.
- Cushing, George W., Newark, N. J., assignor to Krakauer Bros., New York, N. Y. Piano. 148,145; Dec. 23.
- Cushing, George W., Newark, N. J., assignor to Krakauer Bros., New York, N. Y. Piano. 148,146; Dec. 23.
- Cutrow, Leonard A., Los Angeles, Calif. Table. 147,114; July 15.
- Cutrow, Leonard A., Los Angeles, Calif. Table. 147,534; Sept. 23.
- Cwik, Joseph L., Chicago, Ill. Figurine. 148,147; Dec. 23.
- Dailey, Donald E., Philadelphia, Pa. Adhesive tape dispenser. 146,277; Jan. 28.
- Dailey, Donald E., Philadelphia, Pa. Adhesive tape dispenser. 147,582; Sept. 30.
- Dailey, Donald E., Bryn Mawr, assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Refrigerator cabinet. 146,789; May 20.
- Da-Lite Screen Co., Inc., assignee: *See*—  
Du Mais, Leo J., and Cooley, and Heck.
- Dalkoff, Leonard: *See*—  
Goddard, Raymond J., and Dalkoff.
- Dallas Engineering Company, assignee: *See*—  
Hoople, Warner W.
- D'Angelo, Carmelo, Buffalo, N. Y. Tooth brush holder. 146,173; Jan. 7.
- Daniel, Vada A., Fort Worth, Tex. Boutonniere. 147,535; Sept. 23.
- Daniels, Alan, assignor to Baby World Company, Inc., New York, N. Y. Comb. 146,823; May 27.
- Daniels, Alan, assignor to Baby World Company, Inc., New York, N. Y. Hairbrush frame. 147,536; Sept. 23.
- Daniels, Alan, assignor to Baby World Company, Inc., New York, N. Y. Hairbrush frame. 147,537; Sept. 23.
- Daniels, Amy J., North Wilbraham, Mass. Medallion or similar article. 147,228; Aug. 5.
- Daniels, Elmer H., Pasadena, assignor to The Plomb Tool Company, Los Angeles, Calif. Handle for screwdrivers and the like. 146,898; June 10.
- Daniels, Elmer H., Pasadena, assignor to The Plomb Tool Company, Los Angeles, Calif. Hammer head. 146,899; June 10.
- Danilowicz, Frank J., Cleveland, Ohio. Tobacco smoking pipe. 147,363; Aug. 26.
- Danilowicz, Frank J., Cleveland, Ohio. Tobacco pipe. 147,960; Nov. 25.
- Dannemann, Eugene, New York, N. Y. Glass holder or similar article. 147,583; Sept. 30.
- Darr, Harold W., assignor to Char-Lynn Co., Minneapolis, Minn. Combined tire support and inspection light. 147,115; July 15.
- Darr, Harold W., assignor to Char-Lynn Co., Minneapolis, Minn. Portable tire spreader. 147,116; July 15.
- Darvie, Bernard, New York, N. Y. Brooch or similar article. 146,211; Jan. 14.
- Darvie, Bernard, New York, N. Y. Brooch or similar article. 146,212; Jan. 14.
- Darvie, Bernard, New York, N. Y. Brooch or similar article. 146,443; Mar. 11.
- Darvie, Bernard, New York, N. Y. Brooch or similar article. 147,490; Sept. 16.
- Darvie, Bernard, New York, N. Y. Brooch or similar article. 147,491; Sept. 16.
- Darvie, Bernard, New York, N. Y. Brooch or similar article. 147,894; Nov. 18.
- Darvie, Bernard, New York, N. Y. Brooch or similar article. 147,895; Nov. 18.
- David, Dorin A., Bakersfield, Calif. Scoring tee. 147,260; Aug. 12.
- Davis, Gladys R., New York, N. Y. Textile fabric. 146,596; Apr. 15.
- Davis, Gladys R., New York, N. Y. Scarf or similar article. 146,643; Apr. 22.
- Davis, Gladys R., New York, N. Y. Textile fabric. 146,644; Apr. 22.
- Davis, Isidore, New York, N. Y. Nutcracker. 148,148; Dec. 23.
- Davis, Richard: *See*—  
Symons, Mervin O., and Davis.
- Davis, Russell E., assignor to Hussmann-Ligonier Company, St. Louis, Mo. Refrigerated display case. 146,558; Apr. 8.
- Davock, Alfred M., Birmingham, assignor to The Jam Handy Organization, Inc., Detroit, Mich. Photographic film projector. 147,212; July 29.
- Dawer, Sigmund, New York, N. Y. Ear clip or similar article. 147,213; July 29.
- Dawer, Sigmund, New York, N. Y. Ear clip or similar article. 147,214; July 29.
- Day, Thomas E., Sullivan Station, British Columbia, Canada. Garden weeder. 148,215; Dec. 30.
- Day-Brite Lighting, Inc., assignee: *See*—  
Meyer, Carl X.  
Picker, Earl N.
- Dean, Ernest C., Detroit, Mich. Ash tray. 147,720; Oct. 21.
- Dean, Robert L., El Cerrito, Calif. Table lamp. 148,009; Dec. 2.
- Deardorff, Neva R., New York, N. Y. Lap-engaging child's chamber. 148,149; Dec. 23.
- Deckard, Therin J., Joplin, Mo. Font of type. 147,117; July 15.
- Decker, George H., Beaumont, Calif. Ash tray. 146,703; Apr. 29.
- Decker, James W., New York, N. Y. Art projector. 147,118; July 15.
- Defiance Machine Works, Inc., assignee: *See*—  
Little, John M.
- Del Valle, Guillermo A., Merchantville, N. J., assignor to Radio Corporation of America. Combined sound motion picture projector, amplifier, and loudspeaker. 146,704; Apr. 29.
- Denning, Maurice J., St. Charles, assignor to The Emerson Electric Manufacturing Company, St. Louis, Mo. Electric sadoron. 146,705; Apr. 29.
- Dennis, John F., Toledo, Ohio. Drug bottle or similar article. 148,216; Dec. 30.
- Derham, Philip A., Rosemont, Pa., assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Container cap. 146,497; Mar. 25.
- Derham, Philip A., Rosemont, Pa., assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Container cap. 146,536; Apr. 1.
- Derham, Philip A., Rosemont, Pa., assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Container cap. 147,261; Aug. 12.
- Dermetics, Inc., assignee: *See*—  
Burger, Charles H.
- De Sarro, Marion S., New York, N. Y. Combined ash tray and playing card receptacle. 146,302; Feb. 4.
- De Sarro, Rodney, New York, N. Y. Figurine or the like. 147,432; Sept. 9.
- Desiderio, Dominic M., McKees Rock, Pa. Balancing toy. 147,961; Nov. 25.
- Designers for Industry, Inc., assignee: *See*—  
Mankki, Onnie.
- Deutscher, Emanuel, New York, N. Y. Combined watch case and brooch or similar article. 147,962; Nov. 25.
- Devlin, Leo J.: *See*—  
Heinemann, Edward H., and Devlin.
- De Young, Jack, Grand Haven, Mich., assignor to Zenith Radio Corporation. Radio cabinet. 146,537; Apr. 1.
- De Young, Jack, Grand Haven, Mich., assignor to Zenith Radio Corporation. Radio cabinet. 148,010; Dec. 2.
- Diamond Craft of America, assignee: *See*—  
Brown, George F.
- Diamond, Freda, New York, assignor to Syracuse Ornamental Co., Inc., Syracuse, N. Y. Wall bracket. 147,119; July 15.
- Diamond, Freda, New York, assignor to Syracuse Ornamental Co. Inc., Syracuse, N. Y. Book end. 147,433; Sept. 9.
- Diamond, Freda, New York, assignor to Syracuse Ornamental Co. Inc., Syracuse, N. Y. Book end. 147,434; Sept. 9.
- Diamond, Freda, New York, assignor to Syracuse Ornamental Co. Inc., Syracuse, N. Y. Box. 147,492; Sept. 16.
- Diamond, Freda, New York, assignor to Syracuse Ornamental Co. Inc., Syracuse, N. Y. Sconce. 147,538; Sept. 23.



- Diamond, Freda, New York, assignor to Syracuse Ornamental Co. Inc., Syracuse, N. Y. Wall bracket. 148,051; Dec. 9.
- Diamond, Freda, New York, assignor to Syracuse Ornamental Co. Inc., Syracuse, N. Y. Wall bracket. 148,052; Dec. 9.
- Diamond, Freda, New York, assignor to Syracuse Ornamental Co. Inc., Syracuse, N. Y. Wall pocket. 148,053; Dec. 9.
- Diamond, Freda, New York, assignor to Syracuse Ornamental Co. Inc., Syracuse, N. Y. Wall bracket. 148,150; Dec. 23.
- Dibble, Robert F., assignor to The Royal Corporation, New York, N. Y. Display box or similar article. 147,364; Aug. 26.
- Diesbach, Eleanor C., assignee, trustee, et al.: See—Katz, Russell.
- Dietrich, Oscar E., Lawrence, Mass. Combined cigar case and humidifier. 147,120; July 15.
- Dietze, George E., assignor of one-half to H. J. and L. Wald, Pittsburgh, Pa. Font of type or similar article. 146,498; Mar. 25.
- Dillon, Bernard C., New Haven, assignor to E. T. McGuinness, Hamden, Conn. Restaurant building or the like. 147,641; Oct. 14.
- Dimick, Henry N., assignor to Hyster Company, Portland, Oreg. Straddle truck. 146,559; Apr. 8.
- Dimick, Henry N., assignor to Hyster Company, Portland, Oreg. Highway straddle truck. 146,560; Apr. 8.
- Dingman, Margaret C., Indiana, Pa. Wallet. 146,278; Jan. 28.
- Dix, Winfield S., Myerstown, Pa. Boat. 147,036; July 8.
- Dixon-Bartlett Company, assignee: See—Henkel, John.
- Dixon, George F., West Point, N. Y. Clothes hanger. 146,597; Apr. 15.
- Dixon, George F., West Point, N. Y. Clothes hanger. 146,598; Apr. 15.
- Doak Aircraft Co., Inc., assignee: See—Doak, Edmond R., and Grace.
- Doak, Edmond R., and N. E. Grace, Los Angeles, assignors to Doak Aircraft Co., Inc., Torrance, Calif. Toy automobile. 146,465; Mar. 18.
- Doblin, Jay B., Laureton, N. Y., assignor, by mesne assignments, to Reconstruction Finance Corporation, Kansas City, Mo. Loud-speaker casing. 148,151; Dec. 23.
- Dobrin, Edward P., assignor to Wexler Thermometer Corporation, New York, N. Y. Thermometer casing. 147,539; Sept. 23.
- Dohm, Daniel, Jr., assignor to Dohm & Nelke, Inc., St. Louis, Mo. Bone cutting saw or similar article. 146,737; May 6.
- Dohm & Nelke, Inc., assignee: See—Dohm, Daniel, Jr.
- Donahue, William E.: See—Gibbs, Thomas F., Conner, and Donahue.
- Donalson, Joseph E., Kansas City, Mo. Vehicle. 146,645; Apr. 22.
- Dorr, Walter, Scranton, Pa. Walking pull toy. 148,054; Dec. 9.
- Dorrlor, Philip G., Malverne, assignor to Republic Aviation Corporation, near Farmingdale, N. Y. Portable passenger loading platform. 147,745; Oct. 28.
- Doss, John E., Jr., Newark, assignor to A. H. Bryant, Jr., Upper Montclair, N. J. Razor. 148,152; Dec. 23.
- Douglas Aircraft Company, Inc., assignee: See—Burton, Edward F., and Wood.
- Heinemann, Edward H., and Devlin.
- Dovido, Chester A., and A. J. Belliveau, Leominster, Mass. Hairpin. 146,349; Feb. 18.
- Dow, Dewey M., Verona, N. J. Nursery block. 146,174; Jan. 7.
- Downing, Helen A., assignee: See—Boyce, Alfred O.
- Dralle, Elizabeth M., New York, N. Y. Ice crusher. 147,435; Sept. 9.
- Draper, George, International Falls, Minn., and B. F. Warner, Fort Frances, Ontario, Canada, assignors to Minnesota and Ontario Paper Company, Minneapolis, Minn. Roll turntable top. 147,842; Nov. 11.
- Draper, Harold W., West Orange, N. J., assignor to United States of America, as represented by the Secretary of War. Badge or similar article. 147,896; Nov. 18.
- Draper, Harold W., West Orange, N. J., assignor to United States of America, as represented by the Secretary of War. Medallion or similar article. 147,897; Nov. 18.
- Dreher, Godfrey L., Seattle, Wash. Key holder. 147,642; Oct. 14.
- Drell, William, New York, N. Y. Button or similar article. 146,790; May 20.
- Drell, William, New York, N. Y. Button or similar article. 146,791; May 20.
- Dreyfuss, Henry, New York, N. Y., assignor to The Hoover Company, North Canton, Ohio. Brush for a suction cleaner or similar article. 147,215; July 29.
- Driscoll, Desmond J., Baldwin, N. Y., assignor of one-half to J. C. Chase, Long Beach, Calif. Moulding. 148,153; Dec. 23.
- Druban, Renee J., Starke, Fla. Belt buckle. 146,706; Apr. 29.
- Du Bois, Arthur E.: See—Jones, Thomas H., and Du Bois.
- Du Mais, Leo J., Chicago, C. C. Cooley, and J. T. Heck, Elmhurst, assignors to Da-Lite Screen Co., Inc., Chicago, Ill. Casing for picture projection screen. 147,898; Nov. 18.
- Dunn, Kathryn M., Hammond, Ind. Jewelry pin. 146,350; Feb. 18.
- Dunn, William D., Linden, N. J. Shoeshine cabinet. 147,262; Aug. 12.
- Dunn, William J., Winnetka, Ill., and R. R. Richolt, Tujunga, Calif., assignors to General American Transportation Corporation, Chicago, Ill. Child's toilet seat. 147,321; Aug. 19.
- Dunner, Abraham, New York, N. Y. Shirt. 148,217; Dec. 30.
- Dunnoch, John L., assignor to Swindell Brothers, Incorporated, Baltimore, Md. Bottle. 146,351; Feb. 18.
- Duplex Printing Press Company, The, assignee: See—Steele, George R.
- D'Ver, Morris, New York, N. Y. Combined perfume bottle and holder. 147,493; Sept. 16.
- Eames, Charles, West Los Angeles, Calif., assignor to Evans Products Company, Detroit, Mich. Table. 147,613; Oct. 7.
- Eames, Charles, West Los Angeles, Calif., assignor to Evans Products Company, Detroit, Mich. Stool. 147,614; Oct. 7.
- Eames, Charles, West Los Angeles, Calif., assignor to Evans Products Company, Detroit, Mich. Chair. 147,615; Oct. 7.
- Earl, Paul D., Malone, N. Y. Boot or similar article. 146,763; May 13.
- Earle, Guyon L. C., Forest Hills, N. Y., assignor to H. S. Wertz, trustee of Earle Patents Trust. Cabinet for a combination kitchen unit or similar article. 147,616; Oct. 7.
- Earle Patents Trust: See—Earle, Guyon L. C.
- Ebaloy, Incorporated, assignee: See—Aleks, Vytant.
- Eberhard Faber Corporation, assignee: See—Lippincott, Joshua G.
- Edelstein, David, New York, N. Y. Lace. 146,561; Apr. 8.
- Edwards, Earl, Monrovia, Calif. Gameboard. 146,429; Mar. 4.
- Eisele, Harry E., South Pasadena, Calif. Child's bicycle and sidecar combination. 147,229; Aug. 5.
- Eisenberg, Ben, Larchmont, and O. B. Schwarz, New York, N. Y., assignors to Lelstra Laboratories, Inc. Foot pedal control for electric circuits. 147,322; Aug. 19.
- Eisner, Emma, New York, N. Y. Shopping bag or the like. 147,494; Sept. 16.
- Ekco Products Company, assignee: See—Beck, William A.
- Glass, Henry P.
- Hvale, James L.
- Hvale, James L., and Murray.
- Murray, Robert A.
- Ellmore Silver Co., Inc., The, assignee: See—Malinowski, Harry A.
- Moran, William F.
- Elzinga, Clarence A., Kalamazoo, Mich. Easel. 146,738; May 6.
- Emde, Kurt, Itasca, and G. B. Vernier, assignors to Zenith Radio Corporation, Chicago, Ill. Phonograph pickup arm. 146,562; Apr. 8.
- Emerson Electric Manufacturing Company, The, assignee: See—Denning, Maurice J.
- Emlee Sales Corp., assignee: See—Schmidt, Herbert D.
- Empire Designing Corporation, assignee: See—Gallo, Carl.
- Endicott Johnson Corporation, assignee: See—Hickey, James J.
- Engelberg, Goldie: See—Engelberg, Markus and G.
- Engelberg, Markus and G., Brooklyn, N. Y. Adjustable high chair. 147,540; Sept. 23.
- Enterprise Aluminum Company, The, assignee: See—Blazey, Lawrence.
- Erickson, Clarence G., Chicago, Ill., assignor to Erickson-Johnson Machine Co. Combined flashlight and key chain. 146,257; Jan. 21.
- Erickson-Johnson Machine Co., assignee: See—Erickson, Clarence G.
- Ericsson, Nils, New York, N. Y. Table lamp base. 147,721; Oct. 21.
- Erlanger, Helmut, San Francisco, Calif. Desk type cigarette lighter. 147,323; Aug. 19.
- Erskine, Donald G., Baltimore County, assignor to Bendix Aviation Corporation, Towson, Md. Radio cabinet or the like. 146,954; June 24.
- Erskine, Donald G., Baltimore, assignor to Bendix Aviation Corporation, Towson, Md. Radio cabinet or the like. 147,643; Oct. 14.
- Etc., Inc., assignee: See—Musser, Charles W.
- Ethelle, Inc., assignee: See—Thompson, Ethelle.
- Etkin, Simon, New York, N. Y. Jacket. 146,792; May 20.
- Eubank, Judson C., St. Augustine, Fla. Bicycle. 148,055; Dec. 9.



- Evans, Etta, New York, N. Y. Dress. 147,230; Aug. 5.  
 Evans, Evan G., assignee: *See*—  
   Evans, Orin F.  
 Evans, Orin F., assignor to E. G. Evans, Cincinnati, Ohio. Wall flowerpot holder. 146,466; Mar. 18.  
 Evans Products Company, assignee: *See*—  
   Eames, Charles.  
   Schueder, George, and Teague.  
 Everett, Julian G., Dobbs Ferry, assignor to American Chiclé Co., Long Island City, N. Y. Counter display case. 147,231; Aug. 5.  
 Executive Jewelers Purchasing Corp., assignee: *See*—  
   Jacobson, Sam.  
 Exner, Virgil M., and V. E. Gardner, assignors to The Studebaker Corporation, South Bend, Ind. Combined handle, license plate holder, and lamp housing. 148,011; Dec. 2.  
 Failing, Marvin L., Los Angeles, Calif. Portable cooker. 148,154; Dec. 23.  
 Falk, Rolf J., assignor to Shawnee Pottery Company, Zanesville, Ohio. Teapot. 147,436; Sept. 9.  
 Falk, Rolf J., assignor to Shawnee Pottery Company, Zanesville, Ohio. Pitcher. 147,541; Sept. 23.  
 Falk, Rolf J., assignor to Shawnee Pottery Company, Zanesville, Ohio. Condiment shaker. 147,899; Nov. 18.  
 Falk, Rolf J., assignor to Shawnee Pottery Company, Zanesville, Ohio. Child's feeding set. 148,012; Dec. 2.  
 Falk, Rolf J., assignor to Shawnee Pottery Company, Zanesville, Ohio. Child's feeding set. 148,013; Dec. 2.  
 Falk, Rolf J., assignor to Shawnee Pottery Company, Zanesville, Ohio. Child's feeding set. 148,014; Dec. 2.  
 Falk, Rolf J., assignor to Shawnee Pottery Company, Zanesville, Ohio. Milk pitcher. 148,056; Dec. 9.  
 Fanelli, Walter, South Euclid, Ohio, assignor to Faries Manufacturing Company, Decatur, Ill. Lamp or similar article. 147,542; Sept. 23.  
 Fanelli, Walter, South Euclid, Ohio, assignor to Faries Manufacturing Company, Decatur, Ill. Lamp or similar article. 147,722; Oct. 21.  
 Fanelli, Walter, South Euclid, Ohio, assignor to Faries Manufacturing Company, Decatur, Ill. Portable adjustable lamp or similar article. 147,900; Nov. 18.  
 Fanelli, Walter, South Euclid, and C. A. Laystrom, Chicago, assignors to Faries Manufacturing Company, Decatur, Ill. Front for radio cabinet or similar article. 147,785; Nov. 4.  
 Faor, Vassile, Fort Wayne, Ind. Clockcase. 146,406; Feb. 25.  
 Farbstien, Sydney, Union, N. J. Bottle stopper. 146,853; June 3.  
 Faries Manufacturing Company, assignee: *See*—  
   Fanelli, Walter.  
   Fanelli, Walter, and Laystrom.  
 Farmer, Thomas, Larchmont, N. Y. Individual hand party tray. 147,543; Sept. 23.  
 Fearn, George E., assignor to Hess-Appel, New York, N. Y. Brooch or similar article. 146,467; Mar. 18.  
 Fearn, George E., assignor to Hess-Appel, New York, N. Y. Brooch or similar article. 146,468; Mar. 18.  
 Fearn, George E., assignor to Kaufman-Ruderman Co. Inc., New York, N. Y. Pin or similar article. 146,900; June 10.  
 Fedanzo, Robert C., and Andrew S. Gagliardo, Chicago, Ill. Toothbrush holder. 147,843; Nov. 11.  
 Feder, Oscar, New York, N. Y. Pull toy chassis. 147,544; Sept. 23.  
 Federal Razor Blade Co., Inc., assignee: *See*—  
   Karstens, Herman W.  
 Federal Telephone and Radio Corporation, assignee: *See*—  
   Kniep, Louis, Jr.  
 Fenlason, Donna L., Scarsdale, N. Y. Buoyant soap dish. 147,495; Sept. 16.  
 Fenton, Ronald, Hollywood, Fla. Chair. 146,213; Jan. 14.  
 Ferar, Montgomery A.: *See*—  
   Money, Roland H., and Ferar.  
 Ferguson, Robert O., Bristol, Tenn., assignor of one-half to Bristol Steel & Iron Works, Inc., Bristol, Va.-Tenn. Combined syringe bag and tube support. 147,402; Sept. 2.  
 Ferreira, Anthony, Detroit, Mich. Bathing spray paddle. 147,844; Nov. 11.  
 Fiedler, Seymour, New York, N. Y. Combined pencil and cigarette lighter. 148,218; Dec. 30.  
 Figaro Company, Inc., The, assignee: *See*—  
   McKee, Mack J.  
 Figatner, Alan, Brooklyn, N. Y. Memorial tablet. 147,403; Sept. 2.  
 Findlay, Thomas A., Minocqua, Wis. Fish bait. 147,901; Nov. 18.  
 Fine, Morris, New York, N. Y. Book rack. 147,845; Nov. 11.  
 Pink, Jacques, New York, N. Y. Handbag. 147,037; July 8.  
 Fink, Louis F., assignor to International Meters, Inc., New York, N. Y. Parking meter casing. 146,469; Mar. 18.  
 Finkelstein, Solomon, New York, N. Y. Clip or similar article. 146,764; May 13.  
 Finn, John F., Burbank, assignor, by mesne assignments, to F. K. Storm, Jr., Los Angeles, Calif. Molded handle for sweepers, vacuum cleaners and similar articles. 146,499; Mar. 25.  
 Fiorio, Ciro A., Northfield, Ill. Birdbath. 146,901; June 10.  
 Fischer, Jack J., assignee: *See*—  
   Reich, Ludovico.  
 Fisher, Frederic H., assignor to Syracuse Ornamental Co. Inc., Syracuse, N. Y. Mirror frame or the like. 146,765; May 13.  
 Fisher, Frederic H., assignor to Syracuse Ornamental Co. Inc., Syracuse, N. Y. Pipe rack. 147,216; July 29.  
 Fisher, Frederic H., assignor to Syracuse Ornamental Co. Inc., Syracuse, N. Y. Bookend. 147,496; Sept. 16.  
 Fisher, Frederic H., assignor to Syracuse Ornamental Co. Inc., Syracuse, N. Y. Wall bracket. 147,497; Sept. 16.  
 Fisher, Frederic H., assignor to Syracuse Ornamental Co. Inc., Syracuse, N. Y. Wall bracket. 147,746; Oct. 28.  
 Fisher, Frederic H., assignor to Syracuse Ornamental Co. Inc., Syracuse, N. Y. Ash tray. 147,963; Nov. 25.  
 Fisher, Frederic H., assignor to Syracuse Ornamental Co. Inc., Syracuse, N. Y. Box. 148,155; Dec. 23.  
 Fisher, Frederic H., assignor to Syracuse Ornamental Co. Inc., Syracuse, N. Y. Box. 148,156; Dec. 23.  
 Fister, Bertram V., Jamaica, N. Y. Shoe. 146,303; Feb. 4.  
 Fister, Bertram V., New York, N. Y. Shoe or similar article. 148,219; Dec. 30.  
 Fitter, Emil H., Woodside, assignor to Fitter Valve Division of the Tumppane Company, Long Island City, N. Y. Water faucet. 147,404; Sept. 2.  
 Fitter Valve Division of the Tumppane Company, assignee: *See*—  
   Fitter, Emil H.  
 Fitzgerald, Albert J., Syracuse, N. Y., assignor to General Electric Company. Woven metal fabric or the like. 146,707; Apr. 29.  
 Fitzgerald, Albert J., Syracuse, N. Y., assignor to General Electric Company. Woven metal fabric or the like. 146,708; Apr. 29.  
 Fitzgerald, Albert J., Syracuse, N. Y., assignor to General Electric Company. Woven metal fabric or the like. 146,709; Apr. 29.  
 Fitzgerald, Albert J., Syracuse, N. Y., assignor to General Electric Company. Woven metal fabric or the like. 146,710; Apr. 29.  
 Fitzgerald, Albert J., Syracuse, N. Y., assignor to General Electric Company. Woven metal fabric or the like. 148,057; Dec. 9.  
 Fitzgerald, Elsie L., San Antonio, Tex. Vase. 147,121; July 15.  
 Flajole, William, Detroit, Mich. Combination electric toaster, storage compartment, and sugar and cream containers. 147,498; Sept. 16.  
 Flajole, William, Detroit, Mich. Sled. 148,016; Dec. 2.  
 Flajole, William, assignor of one-half to I. Goldsmith, Detroit, Mich. Single runner sled. 148,015; Dec. 2.  
 Flanagan, Tyne D., Chicago, Ill. Fountain pen or the like with safety guard. 147,263; Aug. 12.  
 Flannigan, Robert S., Skaneateles, N. Y. Sled equipped tank for vacuum cleaners. 147,644; Oct. 14.  
 Fleischer, Joseph, New York, N. Y. Finger ring or similar article. 147,264; Aug. 12.  
 Fleischer, Joseph, New York, N. Y. Finger ring or similar article. 147,786; Nov. 4.  
 Fletcher Aviation Corp., assignee: *See*—  
   Fletcher, Frank P.  
 Fletcher, Frank P., assignor to Fletcher Aviation Corp., Pasadena, Calif. Desk. 148,058; Dec. 9.  
 Fletcher, Frank P., assignor to Fletcher Aviation Corp., Pasadena, Calif. Desk. 148,059; Dec. 9.  
 Flickinger, Bruce N., Glendale, Calif. Ash tray. 147,122; July 15.  
 Flint, Edward P., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Telescope or the like. 148,017; Dec. 2.  
 Florence Stove Company: *See*—  
   Kruck, R. E.  
 Florian, Gordon W., Long Hill, Conn. Wagon. 147,645; Oct. 14.  
 Florian, Gordon W., Trumbull, Conn., assignor to Reeves-Ely Laboratories, Inc., New York, N. Y. Coffee maker. 146,352; Feb. 18.  
 Florida Rod and Manufacturing Co., assignee: *See*—  
   Baubie, Rex C., and McKendry.  
 Florman, Irving, New York, N. Y. Fountain pen. 146,214; Jan. 14.  
 Florman, Irving, New York, N. Y. Fountain pen. 146,215; Jan. 14.  
 Floss, Norbert P., assignee, et al.: *See*—  
   Keller, Clarence H.  
 Flynn, Floyd W.: *See*—  
   Shapiro, Lazarus C., and Flynn.  
 Foer, Joseph, Brooklyn, N. Y. Container for poker chips. 148,220; Dec. 30.  
 Folk, Irvin W., Belleville, assignor to Atlas Supply Company, Newark, N. J. Motor analyzer cabinet. 147,437; Sept. 9.  
 Footlik, Irving M., Chicago, Ill. Disposal receptacle. 147,646; Oct. 14.  
 Fortgang, Benjamin: *See*—  
   Greenberg, Jack, and Fortgang.  
 Fosgood Corporation, assignee: *See*—  
   Foster, Joseph C.  
 Fossum, Erling G., assignor to Stewart-Warner Corporation, Chicago, Ill. Oil bar. 146,647; Apr. 22.  
 Fossum, Erling G., assignor to Stewart-Warner Corporation, Chicago, Ill. Dispensing unit for an oil bar. 146,648; Apr. 22.



- Fossum, Erling G., and F. L. Ayres, assignor to Stewart-Warner Corporation, Chicago, Ill. Oil bar. 146,646; Apr. 22.
- Fossum, Erling G., and F. L. Ayres, assignors to Stewart-Warner Corporation, Chicago, Ill. Service station write-up desk or similar article. 146,939; June 17.
- Foster & Davies, Inc., assignee: *See*—Schwartz, Frederick.
- Foster, Joseph C., assignor to Fosgood Corporation, Leominster, Mass. Tie tray or the like. 148,221; Dec. 30.
- Foster, Walter O., Los Angeles, Calif. Boat luggage trailer. 147,038; July 8.
- Fournier, George E., Pawtucket, R. I. Link chain for a bracelet or similar article. 146,854; June 3.
- Frascano, Mario, New York, N. Y. Suit. 146,766; May 13.
- Frascano, Mario, New York, N. Y. Coat. 146,855; June 3.
- Frazier, Orville Z., Elkhart, Ind., assignor of one-half to R. J. St. Louis, Detroit, Mich. Miniature racing car. 147,039; July 8.
- Frazita, Josephine, New York, N. Y. Dress. 147,647; Oct. 14.
- Frederics, Fred, New York, N. Y. Bar of soap. 147,438; Sept. 9.
- Free, Henry T., Shawnee, Kans., and J. P. Robertson, and S. Merz, Kansas City, Mo. Wheelbarrow. 148,018; Dec. 2.
- Freedman, Jules, New York, N. Y. Coat. 146,216; Jan. 14.
- Freedman, Jules, New York, N. Y. Suit. 146,217; Jan. 14.
- Freedman, Jules, New York, N. Y. Suit. 146,218; Jan. 14.
- Freedman, Jules, New York, N. Y. Suit. 146,219; Jan. 29.
- Freedman, Jules, New York, N. Y. Coat. 146,711; Apr. 29.
- Freedman, Jules, New York, N. Y. Coat. 146,712; Apr. 29.
- Freedman, Jules, New York, N. Y. Suit. 146,767; May 13.
- Freedman, Jules, New York, N. Y. Coat. 146,793; May 20.
- Freedman, Jules, New York, N. Y. Coat. 146,856; June 3.
- Freedman, Jules, New York, N. Y. Suit. 146,902; June 10.
- Freedman, Jules, New York, N. Y. Suit. 148,060; Dec. 9.
- Freedman, Jules, New York, N. Y. Coat. 148,157; Dec. 23.
- Free, Albert E., Tallahassee, Fla. Global time dial or similar article. 146,500; Mar. 25.
- Frei, Otto, New York, N. Y. Lace or similar article. 147,324; Aug. 19.
- Frei, Otto, New York, N. Y. Lace or similar article. 147,325; Aug. 19.
- French, Joseph A.: *See*—Rommel, Philip V., and French.
- Fresco, Jacques, Los Angeles, Calif. Draftsman's instrument rack. 146,470; Mar. 18.
- Frez-O-Mat Sales Corporation, assignee: *See*—Rifkin, Milton.
- Friedman, Beatrice, New York, N. Y. Embroidered trimming or the like. 146,903; June 10.
- Friedman, Beatrice, New York, N. Y. Embroidered trimming or the like. 146,904; June 10.
- Friedman, Dave, Hightstown, N. J., assignor to Native Laces & Textiles, Incorporated, New York, N. Y. Lace or similar article. 148,158; Dec. 23.
- Fritz Gegauf's Sonne Aktiengesellschaft, assignee: *See*—Gegauf, Fritz.
- Frohman, Arthur, New York, N. Y. Xylophone or similar article. 148,019; Dec. 2.
- Frontier Aircraft Corp., assignee: *See*—Salisbury, Frank M.
- Frontier, Albert E., Des Plaines, assignor to Advance Lamp Co., Chicago, Ill. Table lamp or the like. 147,040; July 8.
- Fuller, Paul M., Buffalo, N. Y., assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Phonograph cabinet. 146,175; Jan. 7.
- G-M Laboratories, Inc., assignee: *See*—Palma, Joseph, Jr.
- G. & M. Screw Products Co., assignee: *See*—Gittleson, Henry J.
- Gagliardo, Andrew S.: *See*—Fedanzo, Robert C., and Gagliardo.
- Gagnon, Louis L., assignor to American Optical Company, Southbridge, Mass. Spectacle frame or the like. 146,538; Apr. 1.
- Gaige, Richard T., assignor to Volupte, Inc., New York, N. Y. Vanity case or similar article. 146,649; Apr. 22.
- Gaige, Richard T., assignor to Volupte, Inc., New York, N. Y. Vanity case or similar article. 146,650; Apr. 22.
- Galehouse, Clark F., Manhasset, assignor to Arnold Brilhart Ltd., Great Neck, N. Y. Lampstand or similar article. 148,222; Dec. 30.
- Galehouse, Clark F., Manhasset, assignor to Arnold Brilhart Ltd., Great Neck, N. Y. Lampstand or similar article. 148,223; Dec. 30.
- Galehouse, Clark F., Manhasset, assignor to Arnold Brilhart Ltd., Great Neck, N. Y. Lampstand or similar article. 148,224; Dec. 30.
- Galehouse, Clark F., Manhasset, assignor to Arnold Brilhart Ltd., Great Neck, N. Y. Lampstand or similar article. 148,225; Dec. 30.
- Galehouse, Clark F., Manhasset, assignor to Arnold Brilhart Ltd., Great Neck, N. Y. Lampstand or similar article. 148,226; Dec. 30.
- Galehouse, Clark F., Manhasset, assignor to Arnold Brilhart Ltd., Great Neck, N. Y. Lampstand or similar article. 148,227; Dec. 30.
- Galehouse, Clark F., Manhasset, assignor to Arnold Brilhart Ltd., Great Neck, N. Y. Lampstand or similar article. 148,228; Dec. 30.
- Galehouse, Clark F., Manhasset, assignor to Arnold Brilhart Ltd., Great Neck, N. Y. Lampstand or similar article. 148,229; Dec. 30.
- Galehouse, Clark F., Manhasset, assignor to Arnold Brilhart Ltd., Great Neck, N. Y. Lampstand or similar article. 148,230; Dec. 30.
- Galehouse, Clark F., Manhasset, assignor to Arnold Brilhart Ltd., Great Neck, N. Y. Lampstand or similar article. 148,231; Dec. 30.
- Galehouse, Clark F., Manhasset, assignor to Arnold Brilhart Ltd., Great Neck, N. Y. Lampstand or similar article. 148,232; Dec. 30.
- Galehouse, Clark F., Manhasset, assignor to Arnold Brilhart Ltd., Great Neck, N. Y. Lampstand or similar article. 148,233; Dec. 30.
- Galehouse, Clark F., Manhasset, assignor to Arnold Brilhart Ltd., Great Neck, N. Y. Lampstand or similar article. 148,234; Dec. 30.
- Galehouse, Clark F., Manhasset, assignor to Arnold Brilhart Ltd., Great Neck, N. Y. Lampstand or similar article. 148,235; Dec. 30.
- Gallo, Carl, Riverdale, assignor to Empire Designing Corporation, New York, N. Y. Radio cabinet. 147,648; Oct. 14.
- Gallo, Frederick, Mineola, N. Y., assignor to K. Strotkemper and S. Riolo. Costume jewelry pin or similar article. 146,444; Mar. 11.
- Gans, Robert S., Birmingham, assignor to Oxford Engineering Corporation, Oxford, Mich. Photographic tripod head. 146,258; Jan. 21.
- Gardiner, Carl W., Short Hills, assignor to Schnefel Bros. Corporation, Newark, N. J. Container for nail polish or similar article. 147,265; Aug. 12.
- Gardner, Vincent E.: *See*—Exner, Virgil M., and Gardner.
- Gargano, Frank J., Providence, R. I. Brooch. 146,563; Apr. 8.
- Gargano, Frank J., Providence, R. I. Brooch. 146,564; Apr. 8.
- Gargano, Frank J., Providence, R. I. Brooch. 146,565; Apr. 8.
- Gargano, Frank J., Providence, R. I. Brooch. 146,651; Apr. 22.
- Gargano, Frank J., Providence, R. I. Brooch. 146,652; Apr. 22.
- Gargano, Frank J., Providence, R. I. Brooch. 146,653; Apr. 22.
- Gargano, Frank J., Providence, R. I. Brooch. 147,266; Aug. 12.
- Gargano, Frank J., Providence, R. I. Brooch. 147,267; Aug. 12.
- Gargano, Frank J., Providence, R. I. Clip. 147,268; Aug. 12.
- Gargano, Frank J., Providence, R. I. Brooch. 147,326; Aug. 19.
- Garman, Leo H.: *See*—Mullen, Edward, Garman, and Jordan.
- Garris, James E., Washington, D. C. Beauty shop pole. 147,723; Oct. 21.
- Garrison, George F., Providence, R. I. Brooch or similar article. 147,545; Sept. 23.
- Gartner, George C.: *See*—Keener, Harry J., and Gartner.
- Gates, Andrew, New York, N. Y. Wrist watch case. 147,546; Sept. 23.
- Gearhart, Louis, Springfield, Ohio. Chair frame. 147,649; Oct. 14.
- Gegauf, Fritz, assignor to Fritz Gegauf's Sonne Aktiengesellschaft, Steckborn, Switzerland. Sewing machine. 146,539; Apr. 1.
- Geiges, Karl, assignor to The Stieff Company, Baltimore, Md. Spoon or other article of flatware. 146,304; Feb. 4.
- Geller, William, New York, N. Y. Toaster or similar article. 148,104; Dec. 16.
- General Electric Company, assignee: *See*—Fitzgerald, Albert J.
- Tompkins, Alan.
- General Time Instruments Corporation, assignee: *See*—Bentzinger, William E.
- Schlenker, Max E.
- Genske, Hugh, Philadelphia, Pa. Bottle. 146,713; Apr. 29.
- Genske, Hugh, Philadelphia, Pa. Bottle. 146,905; June 10.
- Glannini, G. M., & Co. Inc., assignee: *See*—Klose, Alfred J.
- Gibbs, Thomas F., and F. E. Conner, Jr., Lakewood, and W. E. Donahue, Euclid, Ohio. Waterproof foot covering. 147,499; Sept. 16.
- Gibson, Charles W., Chicago, Ill. Vaporizer or similar article. 146,906; June 10.



- Gibson, Forrest K., Houston, Tex. Bottle carrier. 147,584; Sept. 30.
- Gibson Refrigerator Company, assignee: *See*—Wilson, Lawrence H., and Rutenber.
- Giegold, Andrew G., Jr., Mount Vernon, N. Y. Alphabet. 146,430; Mar. 4.
- Gilbert, A. C., Company, The, assignee: *See*—Preble, Harry S., Jr.
- Gilbert, Felix, assignor to H. B. Shapiro, New York, N. Y. Stereoscopic viewer. 147,846; Nov. 11.
- Gilham, Sydney F., Lakewood, Ohio. Balancing toy. 148,061; Dec. 9.
- Gillespie Engineering Company, assignee: *See*—Gillespie, Victor H., and Mokszycki.
- Gillespie, Victor H., Handley, and P. E. Mokszycki, Fort Worth, assignors to Gillespie Engineering Company, Handley, Tex. Clothespin. 147,007; July 1.
- Giovagnoni, Violet, New York, N. Y. Negligee. 147,041; July 8.
- Giovagnoni, Violet, New York, N. Y. Negligee. 147,232; Aug. 5.
- Giovagnoni, Violet, New York, N. Y. Blouse. 147,233; Aug. 5.
- Gittleson, Henry J., assignor to G. & M. Screw Products Co., Long Island City, N. Y. Combined perfume container and applicator. 147,847; Nov. 11.
- Glascocq, Henry D., assignee: *See*—Atchison, Albert A.
- Glaser, Alex, Paris, France, assignor to Richard Alan Inc. Handbag. 146,739; May 6.
- Glaser, Alex, Paris, France, assignor to Richard Alan Inc. Handbag. 147,234; Aug. 5.
- Glass, Henry P., assignor to Ekco Products Company, Chicago, Ill. Merchandise display case. 147,964; Nov. 25.
- Glass, Henry P., assignor to Ekco Products Company, Chicago, Ill. Merchandise display case. 147,965; Nov. 25.
- Glass, Henry P., assignor to Ekco Products Company, Chicago, Ill. Merchandise display case. 147,966; Nov. 25.
- Glass, Henry P., assignor to Ekco Products Company, Chicago, Ill. Merchandise display case. 147,967; Nov. 25.
- Glass, Henry P., assignor to Ekco Products Company, Chicago, Ill. Merchandise display case. 147,968; Nov. 25.
- Glass, Henry P., assignor to Ekco Products Company, Chicago, Ill. Merchandise display case. 147,969; Nov. 25.
- Glasstetter, Russell F., Bantam, Conn. Jar opener. 147,970; Nov. 25.
- Gleitsman, Harold, New Rochelle, N. Y. Hamper or similar article. 147,724; Oct. 21.
- Gleitsman, Harold, New Rochelle, N. Y. Hamper or similar article. 147,725; Oct. 21.
- Gleitsman, Harold, New Rochelle, N. Y. Hamper or similar article. 147,726; Oct. 21.
- Glickman, Marvin, New York, N. Y. Dress. 147,042; July 8.
- Globe-Wernicke Co., The, assignee: *See*—Kebler, Frank E.
- Glover, James F., Baltimore, Md., assignor to Bendix Aviation Corporation, South Bend, Ind. Radio cabinet or the like. 146,907; June 10.
- Glover, James F., Baltimore County, assignor to Bendix Aviation Corporation, Towson, Md. Radio cabinet or the like. 148,020; Dec. 2.
- Gluck, Joseph, New York, N. Y. Textile fabric. 146,599; Apr. 15.
- Gmeindl, Joseph, Milwaukee, Wis. Stein. 146,540; Apr. 1.
- Gmeindl, Joseph, Milwaukee, Wis. Vase. 146,566; Apr. 8.
- Gmeindl, Joseph, Milwaukee, Wis. Vase. 146,600; Apr. 15.
- Godart, Pierre J., New York, N. Y., assignor to The United States Time Corporation, Waterbury, Conn. Combined clock case and dial. 147,617; Oct. 7.
- Godart, Pierre J., New York, N. Y., assignor to The United States Time Corporation, Waterbury, Conn. Clock case. 147,618; Oct. 7.
- Goddard, Carl A., Winchester, assignor to Scully Signal Company, East Cambridge, Mass. Shelf. 146,279; Jan. 28.
- Goddard, Carl A., Winchester, assignor to Scully Signal Company, East Cambridge, Mass. Shelf. 146,280; Jan. 28.
- Goddard, Raymond J., and L. Dalkoff, assignors to Aztec Supply Co., Rock Island, Ill. Cigarette lighter. 146,908; June 10.
- Godwin, Owen L., Lakeland, Fla. Fruit squeezer. 146,909; June 10.
- Goeller, Lawrence E., Circleville, Ohio. Shaving brush. 147,405; Sept. 2.
- Goeller, Lawrence E., Circleville, Ohio. Foldable clothes-brush. 147,406; Sept. 2.
- Goldberg, H., assignee: *See*—Boyce, Eugene L.
- Goldberg, Harry, New York, N. Y. Suit. 146,220; Jan. 14.
- Goldblatt, Joseph, New York, N. Y. Link chain for a bracelet or similar article. 146,353; Feb. 18.
- Golden, A. George, Brooklyn, N. Y. Picture frame. 147,747; Oct. 28.
- Golden, Zelma, New York, N. Y. Jacket. 146,471; Mar. 18.
- Goldsmith, Irving, assignee, et al.: *See*—Flajole, William.
- Goldstein, Irving, New York, N. Y. Coat. 146,857; June 3.
- Goldstein, Irving, New York, N. Y. Coat. 146,910; June 10.
- Goldstein, Irving, New York, N. Y. Coat. 146,911; June 10.
- Goldstein, Irving, New York, N. Y. Coat. 146,912; June 10.
- Goldstein, Irving, New York, N. Y. Coat. 146,913; June 10.
- Goodstein, David M., New York, N. Y. Dress. 146,305; Feb. 4.
- Goodstein, David M., New York, N. Y. Dress. 146,336; Feb. 11.
- Goodstein, David M., New York, N. Y. Dress. 146,337; Feb. 11.
- Goodwin, Jay L., Tujunga, Calif. Spoon. 146,824; May 27.
- Gordon, Eli, and H. Sanders, Los Angeles, Calif. Toy animal figure. 147,365; Aug. 26.
- Gorham Manufacturing Company, assignee: *See*—Price, James R.
- Gormley, Patrick J., Frankfort, Ky. Suitcase seat. 147,788; Nov. 4.
- Gossard, Wayne T., Los Angeles, Calif. Electric wall plug. 148,105; Dec. 16.
- Gottfried, Louis, New York, N. Y. Baby carriage or similar article. 147,043; July 8.
- Gottfried, Louis, assignor of one-half to J. Berger, New York, N. Y. Baby carriage or similar article. 147,327; Aug. 19.
- Gottfried, Louis, assignor of one-half to J. Berger, New York, N. Y. Baby carriage or similar article. 147,328; Aug. 19.
- Gottschalk, Rose, assignor to Edgar C. Hyman Co., New York, N. Y. Scarf. 146,825; May 27.
- Gottschalk, Rose, assignor to Edgar C. Hyman Co., New York, N. Y. Scarf. 146,826; May 27.
- Gould, Albert, Montclair, assignor to Analyte Instruments, Inc., Bloomfield, N. J. Illuminable display cabinet for jewelry and the like. 146,354; Feb. 18.
- Gould, J. E., assignee: *See*—Reynolds, Victor S.
- Grace, Nelson E.: *See*—Doak, Edmond R., and Grace.
- Grae, Bernard A., Chicago, Ill. Combination shoe polishing kit. 146,914; June 10.
- Graham, Elizabeth N., New York, N. Y. Handbag. 147,008; July 1.
- Graham, Elizabeth N., New York, N. Y. Handbag. 147,547; Sept. 23.
- Graham, Elizabeth N., New York, N. Y. Handbag. 147,548; Sept. 23.
- Graham, John, New York, N. Y. Pin-up lamp. 147,269; Aug. 12.
- Grant, Delbert D., assignee, et al.: *See*—Miller, Arthur G.
- Gray, Charles S., assignor to L. Prager, New York, N. Y. Stand. 147,902; Nov. 18.
- Gray, Harry H., Kansas City, Mo. Soap cake holder. 146,306; Feb. 4.
- Grebmeier, Joseph, Menlo Park, Calif. Analytical rotor for ultra-centrifuge machines. 148,062; Dec. 9.
- Green, Warren, Noroton Heights, Conn., and P. Schladermundt, Bronxville, assignors to Salz Bros. Inc., New York, N. Y. Fountain pen. 146,176; Jan. 7.
- Greenberg, Jack, and B. Fortgang, New York, N. Y. Leather jacket. 146,472; Mar. 18.
- Greenberg, Jack, and B. Fortgang, New York, N. Y. Leather jacket. 146,567; Apr. 8.
- Greenberg, Jack, and B. Fortgang, New York, N. Y. Leather jacket. 147,235; Aug. 5.
- Greenberg, Jack, and B. Fortgang, New York, N. Y. Leather jacket. 147,236; Aug. 5.
- Greger, George G., Detroit, Mich. Make-up tray. 147,009; July 1.
- Grey Iron Casting Company, assignee: *See*—Schmidt, Samuel S.
- Griffith Laboratories, Inc., The, assignee: *See*—Reinecke, Jean O.
- Gro-Cord Rubber Company, assignee: *See*—Knisely, Virgil M.
- Groshong, Edith B., Eureka, Calif. Doll. 146,654; Apr. 22.
- Grossman Music Company, assignee: *See*—Thompson, Josephus.
- Grossniklaus, Alice J., Wilmet, Ohio. Fireplace mantel. 147,366; Aug. 26.
- Grosz, Zoltan, New York, N. Y. Handbag lock closure. 148,063; Dec. 9.
- Grover, Frederic S., Rochester, assignor to International Business Machines Corporation, New York, N. Y. Typewriter. 146,407; Feb. 25.
- Groves, Denison F., Evanston, assignor to Groves Shoe Co., Chicago, Ill. Slipper or similar article. 147,549; Sept. 23.
- Groves Shoe Co., assignee: *See*—Groves, Denison F.
- Gruber, Abe, New York, N. Y. Raincoat or similar article. 147,173; July 22.



- Gruber, Abe, New York, N. Y. Raincoat or similar article. 147,971; Nov. 25.
- Guaranteed Products, assignee: *See—*  
Bradstock, Philip, and Maier.
- Guarnaschelli, Vincent, Corona, N. Y. Bottle cap. 146,355; Feb. 18.
- Guastella, Biagino, New York, N. Y. Baby crib. 147,787; Nov. 4.
- Gubbins, George P., Chicago, Ill. Harmonica. 148,159; Dec. 23.
- Guinzburg, George K., Chappaqua, assignor to I. B. Kleintert Rubber Company, New York, N. Y. Shoe. 147,848; Nov. 11.
- Guinzburg, George K., Chappaqua, assignor to I. B. Kleintert Rubber Co., New York, N. Y. Shoe. 148,106; Dec. 16.
- Guth, Oscar, New York, N. Y. Pendant or similar article. 147,217; July 29.
- Guttman, Edward, New York, N. Y. Polo shirt or similar article. 147,174; July 22.
- Guttman, Edward, New York, N. Y. Polo shirt or similar article. 147,175; July 22.
- Guttman, Edward, New York, N. Y. Polo shirt or similar article. 147,176; July 22.
- Guttman, Edward, New York, N. Y. Polo shirt or similar article. 147,177; July 22.
- Guttman, Edward, New York, N. Y. Sweater or similar article. 148,160; Dec. 23.
- Guttman, Edward, New York, N. Y. Sweater or similar article. 148,161; Dec. 23.
- Guttman, John B., assignor to Arrow Manufacturing Company, Incorporated, Hoboken, N. J. Jewelry box. 147,903; Nov. 18.
- Hacker, Fred A., Cranford, assignor, by mesne assignments, to American Type Founders, Incorporated, Elizabeth, N. J. Vibrating jogger for paper sheets or the like. 146,501; Mar. 25.
- Hackley, Joseph, Stoke-on-Trent, England. Dinner plate. 146,940; June 17.
- Haight, Dorothy A., Alameda, Calif. Apron. 147,550; Sept. 23.
- Hall, Elisabeth P., Westwood, assignor to National Fireworks, Inc., Hanover, Mass. Toy dog. 147,585; Sept. 30.
- Hallamore, Lloyd G., Los Angeles, Calif. Combined mail chute, signal chime, and house number housing. 147,727; Oct. 21.
- Hallgarten, Marie-Helene, assignor to Susquehanna Mills, Inc., New York, N. Y. Fabric. 146,307; Feb. 4.
- Hallicrafters Co., The, assignee: *See—*  
Latham, Richard S.
- Hallward, Michael, Swampscott, Mass. Bureau. 146,740; May 6.
- Halprin, Benjamin, New York, N. Y. Combination desk unit. 147,439; Sept. 9.
- Hamilton, Kenneth C., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis. Place mat or similar article. 146,655; Apr. 22.
- Hamilton, Oliver W.: *See—*  
Hansen, Raymond J., and Hamilton.
- Hamilton, Rufus W., Jr., and J. L. King, Wilmington, Calif. Inkwell. 146,656; Apr. 22.
- Hampel, John R., Pewaukee, assignor to Milwaukee Saddlery Company, Milwaukee, Wis. Belt buckle. 147,218; July 29.
- Hamre, Marion R., Oceanside, N. Y. Fabric. 148,064; Dec. 9.
- Hankins, Robert L., assignee: *See—*  
Maxwell, William.
- Hanni, Mowry J., Painesville, Ohio. Toothbrush cabinet. 147,123; July 15.
- Hanni, Mowry J., Painesville, Ohio. Toothbrush cabinet. 147,650; Oct. 14.
- Hansen, Alice G., New York, N. Y. Refrigerator. 146,541; Apr. 1.
- Hansen, Raymond J., and O. W. Hamilton, Burbank, Calif., assignor, by mesne assignments, to Raymond J. Hansen. Salt and pepper set. 147,728; Oct. 21.
- Hanson, Eleanor H., New York, N. Y. Lady's handbag. 147,789; Nov. 4.
- Harder, Anna, Beaver Dam, Wis. Sink. 147,748; Oct. 28.
- Harley, Edward J., Philadelphia, and L. W. Metzger, Doylestown, Pa. Locomotive body. 147,178; July 22.
- Harman, Abbot A., New York, N. Y. Jewelry display box. 147,651; Oct. 14.
- Harman, Slingsby D., Galesburg, Ill. Combined shower head and water temperature indicator. 146,308; Feb. 4.
- Harper, Philip S., assignor to Harper-Wyman Company, Chicago, Ill. Ash tray. 148,236; Dec. 30.
- Harper, Philip S., assignor to Harper-Wyman Company, Chicago, Ill. Pipe. 148,237; Dec. 30.
- Harper, Philip S., assignor to Harper-Wyman Company, Chicago, Ill. Pipe stem. 148,238; Dec. 30.
- Harper, Philip S., assignor to Harper-Wyman Company, Chicago, Ill. Pipe bowl. 148,239; Dec. 30.
- Harper-Wyman Company, assignee: *See—*  
Harper, Philip S.
- Harris, Harry, Brooklyn, assignor to Paramount Industries, Inc., New York, N. Y. Portable fluorescent electric lantern. 147,440; Sept. 9.
- Harris, Harry, Los Angeles, Calif. Chair. 148,065; Dec. 9.
- Harris, Loyal E., assignee et al.: *See—*  
Chambers, Paul A.
- Harris, Sidney, New York, and W. H. Belz, Jackson Heights, N. Y. Pair of spectacles. 147,124; July 15.
- Hartnett, Paul L., Leominster, Mass. Scarf holder. 146,794; May 20.
- Harvuot, Richard E., Inglewood, assignor to Interstate Aircraft and Engineering Corp., El Segundo, Calif. Crevice tool for vacuum cleaners. 147,125; July 15.
- Harvuot, Richard E., Inglewood, assignor to Interstate Aircraft and Engineering Corp., El Segundo, Calif. Demolishing attachment for vacuum cleaners. 147,126; July 15.
- Harvuot, Richard E., Inglewood, assignor to Interstate Aircraft and Engineering Corp., El Segundo, Calif. Spray gun attachment for vacuum cleaners. 148,162; Dec. 23.
- Hasche, Carl H., Glendale, Calif. Child's seat or similar article. 147,367; Aug. 26.
- Haskell Manufacturing Company, assignee: *See—*  
Maynard, Harold B., and Puntun.
- Hassan, Sidney N., New York, N. Y. Post card. 146,568; Apr. 8.
- Hawkrige Brothers Company, assignee: *See—*  
Shaw, Edward L.
- Heaberlin, Walter E., Kansas City, Mo. Statuette. 148,163; Dec. 23.
- Hecht, Arno, Babylon, N. Y., assignor to H. A. Sherwood. Vehicle. 146,542; Apr. 1.
- Hecht, Arno, Babylon, N. Y., assignor to H. A. Sherwood. Vehicle. 146,543; Apr. 1.
- Heck, John T.: *See—*  
Du Mais, Leo J., and Cooley and Heck.
- Hee, Thornton: *See—*  
Price, Jeanne, and Hee.
- Heinemann, Edward H., and L. J. Devlin, Los Angeles, assignors to Douglas, Aircraft Company, Inc., Santa Monica, Calif. Airplane. 146,221; Jan. 14.
- Helsley, Virginia, New York, N. Y. Tablecloth or similar article. 146,657; Apr. 22.
- Hemmeter, George T., Berkeley, Calif. Newspaper vending machine. 146,177; Jan. 7.
- Henderson, David C., Des Plaines, assignor to Cruver Manufacturing Company, Chicago, Ill. Ash tray or similar article. 147,849; Nov. 11.
- Henkel, John, Baltimore, Md., assignor to Dixon-Bartlett Company. Shoe. 146,356; Feb. 18.
- Henkel, John, Baltimore, Md., assignor to Dixon-Bartlett Company. Shoe. 146,357; Feb. 18.
- Henkel, John, Baltimore, Md., assignor to Dixon-Bartlett Company. Shoe. 146,358; Feb. 18.
- Henkel, John, Baltimore, Md., assignor to Dixon-Bartlett Company. Shoe. 146,768; May 13.
- Henrichsen, Knute, Bel-Air, assignor to North American Aviation, Inc., Inglewood, Calif. Articulated bus. 148,066; Dec. 9.
- Henriksen, Ernst J. J., Copenhagen, Denmark. Rotary blotting device. 147,729; Oct. 21.
- Herman, Joseph S.: *See—*  
Herman, Stephen B. and J. S.
- Herman, Stephen B., Cleveland, and J. S. Herman, Brooklyn Village, Ohio. Ash tray holder or similar article. 146,827; May 27.
- Herring-Hall-Marvin Safe Company, assignee: *See—*  
Adams, William E.
- Herzog, Henry, Lincoln, Nebr. Tray. 147,237; Aug. 5.
- Hess-Appel, assignee: *See—*  
Fearn, George E.
- Hettrick Manufacturing Company, The, assignee: *See—*  
Smith, William I.
- Hickey, James J., Binghamton, assignor to Endicott Johnson Corporation, Endicott, N. Y. Shoe. 146,714; Apr. 29.
- Hickey, James J., Binghamton, assignor to Endicott Johnson Corporation, Endicott, N. Y. Shoe. 146,715; Apr. 29.
- Hicks, William D., Los Angeles, Calif. Child's vehicle. 147,850; Nov. 11.
- Hightower, John P., Charleston, W. Va., assignor to Atlantic Greyhound Corporation, Richmond, Va. Lapel button or similar article. 146,178; Jan. 7.
- Hill, Harvey R., Ogden, Utah. Apron. 147,652; Oct. 14.
- Hill, Jesse, New York, N. Y. Trundle toy. 146,955; June 24.
- Hillmer, Herman H., Omaha, Nebr., assignor to Better Packages Incorporated, Shelton, Conn. Tape-dispensing machine. 146,716; Apr. 29.
- Hiltbrand, Frank X., Weehawken, N. J., assignor to Harry Rosenfeld, Inc., New York, N. Y. Ornament for handbags or the like. 146,445; Mar. 11.
- Hiltbrand, Frank X., Weehawken, N. J., assignor to Harry Rosenfeld, Inc., New York, N. Y. Ornament for handbags or the like. 146,717; Apr. 29.
- Hilton, William L., Palm Springs, Calif. Fishing lure. 147,044; July 8.
- Hirschel, Louis R., Brooklyn, N. Y. Set of chessmen. 147,904; Nov. 18.
- Hitt, Ralph E., Weatherford, Tex. Toothbrush timer. 146,309; Feb. 4.
- Hobe, William W., New York, N. Y. Bracelet or similar article. 146,179; Jan. 7.
- Hoch, Herman, New York, N. Y. Cape stole. 147,790; Nov. 4.
- Hodge, T. Barry, Chicago, Ill. Container for a toy. 147,500; Sept. 16.
- Hoeker, Bert: *See—*  
Anderson, Robert I., and Hoeker.
- Hogan, Clara W., Fort Worth, Tex. Spool holder. 148,067; Dec. 9.



- Holan, James H., Jr., Rocky River, and H. J. Troche, Cleveland Heights, assignors to The American Coach and Body Company, Cleveland, Ohio. Vehicle body. 148,021; Dec. 2.
- Holden, Crofton C., assignor to Tilton & Cook Co., Leominster, Mass. Comb. 147,551; Sept. 23.
- Holden, Crofton C., Leominster, Mass., assignor to Tilton & Cook Co. Comb. 147,552; Sept. 23.
- Hollander, Eugene, San Francisco, Calif., assignor to K. Arakelian, Inc. Display stand. 148,164; Dec. 23.
- Holly Pen Corporation, assignee: *See*—Breitenstein, Charles T.
- Hollyday, Charles E., Jr.: *See*—Varrieur, Albert L., and Hollyday.
- Holmberg, Arthur C., Minneapolis, Minn. Combination key holder and light. 146,359; Feb. 18.
- Holmes, Hammel C., Indianapolis, Ind. Lighting fixture. 147,905; Nov. 18.
- Holmquist, Maynard S., Seattle, Wash. Door plate. 147,045; July 8.
- Homan, Harold T., assignor to Alamo Pottery, Inc., San Antonio, Tex. Pitcher. 148,165; Dec. 23.
- Hood, George M., Glendale, Calif. Closure for a jar or similar article. 146,795; May 20.
- Hooper, Wallace C., Los Angeles, Calif. Toy gun. 146,502; Mar. 25.
- Hoople, Warner W., assignor to Dallas Engineering Company, Dallas, Tex. Combined velocipede and trailer. 147,238; Aug. 5.
- Hooven, Howard, Doylestown, assignor to Quaker Lace Company, Philadelphia, Pa. Lace tablecloth. 146,569; Apr. 8.
- Hooven, Howard, Doylestown, assignor to Quaker Lace Company, Philadelphia, Pa. Lace tablecloth. 146,570; Apr. 8.
- Hooven, Howard, Doylestown, assignor to Quaker Lace Company, Philadelphia, Pa. Lace tablecloth. 146,571; Apr. 8.
- Hoover Company, The, assignee: *See*—Dreyfuss, Henry.
- Horn, William A., Alton, Ill. Fabric applique. 148,240; Dec. 30.
- Horn, William A., Alton, Ill. Badge. 148,241; Dec. 30.
- Hornung, Clarence P., New York, N. Y., assignor to Consolidated Razor Blade Co. Inc., Jersey City, N. J. Safety razor or similar article. 146,915; June 10.
- Hornung, Clarence P., New York, N. Y., assignor to Consolidated Razor Blade Co., Inc., Jersey City, N. J. Safety razor casing or similar article. 146,916; June 10.
- Hornung, Clarence P., New York, N. Y., assignor to Consolidated Razor Blade Co., Inc., Jersey City, N. J. Safety razor or similar article. 146,917; June 10.
- Hornung, Clarence P., New York, N. Y., assignor to Consolidated Razor Blade Co., Inc., Jersey City, N. J. Safety razor casing or similar article. 146,918; June 10.
- Hornung, Clarence P., Hempstead Lake Park, N. Y. Flashlight. 147,653; Oct. 14.
- Horsewood, William F., Pomona, Calif. Breakfast nook. 148,242; Dec. 30.
- Horton, Walter R., Venice, Calif. Folding crib. 147,851; Nov. 11.
- Hotz, Arnold J., Cleveland, Ohio. Combined book end and nutcracker. 147,586; Sept. 30.
- Howard, Edwin A., Hingham, Mass., assignor to Beckwith Manufacturing Company, Dover, N. H. Shoe protector. 147,010; July 1.
- Howard, Edwin A., Hingham, Mass., assignor to Beckwith Manufacturing Company, Dover, N. H. Shoe protector. 147,011; July 1.
- Howard, Viola T., Saylesville, R. I., assignor to Swank, Inc. Alphabet for forming monograms or similar article. 146,446; Mar. 11.
- Howard, Viola T., Saylesville, R. I., assignor to Swank, Inc. Necktie holder. 146,828; May 27.
- Howells, Henry C., Bethesda, Md., assignor to United States Industries, Incorporated, Washington, D. C. Corkscrew. 146,956; June 24.
- Hoy Equipment Co., assignee: *See*—Hoy, Frank H.
- Hoy, Frank H., assignor to Hoy Equipment Co., Milwaukee, Wis. Meat mold cover or similar article. 148,243; Dec. 30.
- Huber, John E., Cincinnati, Ohio. Infant's chair. 148,068; Dec. 9.
- Hubner, Roberta H., New York, N. Y. Tablecloth or similar article. 146,572; Apr. 8.
- Hudson, Jesse B., Philadelphia, Pa. Tape dispenser. 146,718; Apr. 29.
- Hughes, Muriel J., assignor to Susquehanna Mills, Inc., New York, N. Y. Fabric. 146,310; Feb. 4.
- Hughes, Muriel J., assignor to Susquehanna Mills, Inc., New York, N. Y. Fabric. 146,360; Feb. 18.
- Hunt, Robert O.: *See*—McManus, Joseph D., and Hunt.
- Hussey, Mary C., Mount Vernon, N. Y. Combined candle and tray. 147,730; Oct. 21.
- Husmann-Ligonier Company, assignee: *See*—Davis, Russell E.
- Hutchinson, Harry M., Carlisle, Pa. Hunting and fishing vest or similar article. 147,127; July 15.
- Hutchinson, Harry M., Carlisle, Pa. Hunting and fishing vest or similar article. 147,128; July 15.
- Hvale, James L., assignor to Ekco Products Company, Chicago, Ill. Knife holder. 146,222; Jan. 14.
- Hvale, James L., assignor to Ekco Products Company, Chicago, Ill. Handle member for knives and forks and similar articles. 147,553; Sept. 23.
- Hvale, James L., Chicago, and R. A. Murray, Evanston, assignors to Ekco Products Company, Chicago, Ill. Handle for a knife, kitchen utensil, or similar article. 147,554; Sept. 23.
- Hyde, Donald B., Newton, Mass. Bird cake holder. 146,408; Feb. 25.
- Hyman, Edgar C., Co., assignee: *See*—Bartlett, Ivan.
- Hyman, Eliot, assignee: *See*—Colomy, Roy H.
- Hyman, Elizabeth L., Woodmere, N. Y. Combined rattle and teething ring doll. 147,852; Nov. 11.
- Hyster Company, assignee: *See*—Dimick, Henry N.
- Ide, Herbert C., Arlington, Va. Stapling machine. 147,972; Nov. 25.
- Ideal Industries, Inc., assignee: *See*—Schinske, William G.
- Imperial Brass Manufacturing Company, The, assignee: *See*—Rausch, Martin J.
- Imperial Pearl Co., Inc., assignee: *See*—Pearsall, Frederick J.
- Industrial Patent Corporation, assignee: *See*—Wales, Nathaniel B.
- Industrial Tape Corporation, assignee: *See*—Dailey, Donald E.
- Loewy, Raymond.
- Inglis, George A., Bayside, N. Y. Game board. 147,906; Nov. 18.
- International Business Machines Corporation, assignee: *See*—Grover, Frederick S.
- Kress, George H.
- International Meters, Inc., assignee: *See*—Fink, Louis F.
- International Silver Company, The, assignee: *See*—Theobald, Jean G.
- International Standard Electric Corporation, assignee: *See*—Lens, Georges X.
- Interstate Aircraft and Engineering Corp., assignee: *See*—Harvuot, Richard E.
- Jackson, Edwin H., assignor to The Ranch House, Fort Worth, Tex. Portable barbecue. 148,244; Dec. 30.
- Jackson, George McS., Chicago, Ill., assignor to Camfield Manufacturing Company, Grand Haven, Mich. Toaster. 147,407; Sept. 2.
- Jacobs, A. H., Company, assignee: *See*—Jacobs, Alexander H., and Anderson.
- Jacobs, Alexander H., New York, and T. Anderson, Forest Hills, assignors to A. H. Jacobs Company, New York, N. Y. Wallpaper. 146,361; Feb. 18.
- Jacobs, Alexander H., New York, and T. Anderson, Forest Hills, assignors to A. H. Jacobs Company, New York, N. Y. Wallpaper. 146,362; Feb. 18.
- Jacobsen, Virginia J., San Diego, Calif. Clothespin. 146,658; Apr. 22.
- Jacobson, Jack, New York, N. Y. Glider or similar article. 147,501; Sept. 16.
- Jacobson, Louis, New York, N. Y. Eyeglass frame. 148,069; Dec. 9.
- Jacobson, Sam, New York, N. Y., assignor to Executive Jewelers Purchasing Corp. Pendant. 148,022; Dec. 2.
- Jaeger, Erich, La Falda, Argentina, assignor to O. F. Rien, Yeadon, Pa. Hydrocycle. 146,659; Apr. 22.
- Jaehne, Alfred H., assignor, by mesne assignments, to California Research Corporation, San Francisco, Calif. Service station. 147,239; Aug. 5.
- Jaffe, Bernice, Chicago, Ill. Temple for spectacles. 146,601; Apr. 15.
- Jaffe, Bernice, Chicago, Ill. Temple for spectacles. 146,602; Apr. 15.
- Jaffe, Bernice, Chicago, Ill. Temple for spectacles. 146,603; Apr. 15.
- Jagow, Leroy J., Cheektowaga, N. Y. Household food beater. 146,363; Feb. 18.
- Jam Handy Organization, Inc., The, assignee: *See*—Davock, Alfred M.
- Jamouneau, Walter C., assignor to Piper Aircraft Corporation, Lock Haven, Pa. Airplane. 147,791; Nov. 4.
- Jandor, Incorporated, assignee: *See*—Mendelsohn, William A.
- Janelunas, Joseph C., Brooklyn, N. Y. Textile material or the like. 147,973; Nov. 25.
- Janelunas, Joseph C., Brooklyn, N. Y. Textile material or the like. 147,974; Nov. 25.
- Janelunas, Joseph C., Brooklyn, N. Y. Textile material or the like. 147,975; Nov. 25.
- Janelunas, Joseph C., Brooklyn, N. Y. Textile material or the like. 147,976; Nov. 25.
- Jansen, Norma E., Oakland, Calif. Brooch or similar article. 146,660; Apr. 22.
- Jansen, Norma E., Oakland, Calif. Figurine. 146,661; Apr. 22.
- Jay-Lip Corporation, assignee: *See*—Lippman, Aaron H.
- Jewell, Paul N.: *See*—Pruett, Floyd W., and Jewell.
- Joelson, John, New York, N. Y. Combined holder for picture and perfume containers. 147,046; July 8.



- Johnson, Alice M., New York, N. Y. Bracelet or similar article. 148,023; Dec. 2.
- Johnson, Carl S., Eugene, Oreg. Combined baby chair and end table. 146,796; May 20.
- Johnson, Elmer L., Minneapolis, Minn. Toothpick. 147,977; Nov. 25.
- Johnson, Elmer L., Minneapolis, Minn. Toothpick. 147,978; Nov. 25.
- Johnson, Ena P., Abilene, Tex. Infant's sweater. 147,408; Sept. 2.
- Johnson, Frank A., San Francisco, Calif. Razor blade knife. 147,555; Sept. 23.
- Jones, Basil E., Flossmoor, assignor to The Pullman Company, Chicago, Ill. Railway car body. 148,024; Dec. 2.
- Jones, Basil E., Flossmoor, assignor to The Pullman Company, Chicago, Ill. Railway car body. 148,025; Dec. 2.
- Jones, Basil E., Flossmoor, assignor to The Pullman Company, Chicago, Ill. Railway car body. 148,026; Dec. 2.
- Jones, Basil E., Flossmoor, assignor to The Pullman Company, Chicago, Ill. Washbasin. 148,245; Dec. 30.
- Jones, Holmes E., Beaumont, Tex. Display fixture. 147,979; Nov. 25.
- Jones, Richard C., assignor to Associated Products, Inc., Chicago, Ill. Lipstick holder. 147,619; Oct. 7.
- Jones, Thomas H., Washington, D. C., assignor to the United States of America, as represented by the Secretary of War. Medallion or similar article. 148,166; Dec. 23.
- Jones, Thomas H., Washington, D. C., and A. E. Du Bois, Newark, N. J., assignors to the United States of America, as represented by the Secretary of War. Medal or similar article. 148,167; Dec. 23.
- Jones, Thomas R., Chicago, Ill., assignor to Nye Tool & Machine Co. Pipe threading tool. 146,409; Feb. 25.
- Jones, Vincent W., Cleveland Heights, Ohio. Cigarette holder. 147,270; Aug. 12.
- Jones, William T., assignor to Consolidated Molded Products Corporation, Scranton, Pa. Holy water font. 146,544; Apr. 1.
- Jones, William T., assignor to Consolidated Molded Products Corporation, Scranton, Pa. Combined shrine or similar article and case therefor. 147,240; Aug. 5.
- Jones, William T., assignor to Consolidated Molded Products Corporation, Scranton, Pa. Case for religious shrine or the like. 147,329; Aug. 19.
- Jordan, James C.: See—  
Mullen, Edward, Garman, and Jordan.
- Jordan, R. M., & Company, Inc., assignee: See—  
Brown, Violet.
- Joyce, Harry P., Beverly Hills, and M. Kreppel, assignors to J. L. Kenyon, Los Angeles, Calif. Child's vehicle. 147,556; Sept. 23.
- Jung, Albert H., Flushing, assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Combined brush, comb, and holder or the like. 147,749; Oct. 28.
- Kaderli, Max, Old Greenwich, Conn. Combination bottle opener and corkscrew. 146,957; June 24.
- Kaes, Stefan, Brooklyn, N. Y. Eyeglass frame or similar article. 146,447; Mar. 11.
- Kahl, Elias A., New York, N. Y. Combined mirror and stand. 146,364; Feb. 18.
- Kalnitz, Nelson, and C. E. Appling, Los Angeles, Calif. Double spectacle case. 146,223; Jan. 14.
- Kaminski, John P., Baltimore, Md. Condom receptacle. 147,731; Oct. 21.
- Kaplan, George W., Malden, Mass. Radar toy. 147,557; Sept. 23.
- Kaplan, Sholom E., Hartford, Conn. Figured bag for toys. 147,587; Sept. 30.
- Kaplan, Sholom E., Hartford, Conn. Figured bag for dust cloths. 147,588; Sept. 30.
- Kaplan, Sholom E., Hartford, Conn. Mail bag. 147,589; Sept. 30.
- Karakashian, Nubar A., Philadelphia, Pa. Ash tray. 148,168; Dec. 23.
- Karl, David J., Hamden, Conn. Game board. 148,027; Dec. 2.
- Karstadt, Clarence, Glen Ellyn, Ill., assignor to Birtman Electric Company. Tank type suction cleaner casing. 146,573; Apr. 8.
- Karstadt, Clarence, Glen Ellyn, Ill., assignor to Birtman Electric Company. Suction cleaner casing. 146,574; Apr. 8.
- Karstadt, Clarence, Glen Ellyn, Ill., assignor to Noblitt Sparks Industries, Incorporated, Columbus, Ind. Electric iron. 146,858; June 3.
- Karstens, Herman W., Westwood, assignor to Federal Razor Blade Co., Inc., Newark, N. J. Razor blade dispenser. 146,604; Apr. 15.
- Kasen, Daniel, Newark, N. J. Button or similar article. 147,330; Aug. 19.
- Kasen, Daniel, Newark, N. J. Button or similar article. 147,331; Aug. 19.
- Kastner, Mortimer M., Montreal, Quebec, Canada. Game board. 146,797; May 20.
- Kastner, Mortimer M., Montreal, Quebec, Canada. Game board. 146,829; May 27.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,281; Jan. 28.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring. 146,311; Feb. 4.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,312; Feb. 4.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,503; Mar. 25.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,575; Apr. 8.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,576; Apr. 8.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,769; May 13.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet. 146,859; June 3.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,919; June 10.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,958; June 24.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,959; June 24.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring. 146,960; June 24.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,961; June 24.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,962; June 24.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Clip or similar article. 146,963; June 24.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,964; June 24.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,965; June 24.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 146,966; June 24.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 147,012; July 1.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 147,047; July 8.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or similar article. 147,048; July 8.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Earring or similar article. 147,049; July 8.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 147,129; July 15.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 147,130; July 15.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Separable brooch or similar article. 147,179; July 22.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 147,180; July 22.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 147,181; July 22.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 147,182; July 22.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 147,183; July 22.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 147,184; July 22.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 147,185; July 22.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 147,186; July 22.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 147,187; July 22.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 147,188; July 22.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 147,189; July 22.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 147,190; July 22.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 147,191; July 22.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 147,192; July 22.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 147,193; July 22.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 147,194; July 22.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 147,195; July 22.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch of similar article. 147,196; July 22.
- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or similar article. 147,197; July 22.



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- Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Separable brooch or similar article. 148,246; Dec. 30.
- Katz, Louis, New York, N. Y. Display stand for greeting cards or the like. 148,070; Dec. 9.
- Katz, Louis, New York, N. Y. Display stand for greeting cards or the like. 148,071; Dec. 9.
- Katz, Louis, New York, N. Y. Display stand for greeting cards or the like. 148,072; Dec. 9.
- Katz, Louis, New York, N. Y. Display stand for greeting cards or the like. 148,073; Dec. 9.
- Katz, Louis, New York, N. Y. Display stand for greeting cards or the like. 148,074; Dec. 9.
- Katz, Meyer M., Philadelphia, Pa. Atomizer. 147,854; Nov. 11.
- Katz, Russell, assignor to P. Benninghofen and E. C. Diesbach, Hamilton, Ohio, trustees. Camera tripod head. 148,107; Dec. 16.
- Kaufman, Herman, New York, N. Y. Embroidered lace yoke. 146,967; June 24.
- Kaufman, Herman, New York, N. Y. Embroidered lace yoke. 146,968; June 24.
- Kaufman, Herman, New York, N. Y. Lace yoke. 146,969; June 24.
- Kaufman, Herman, New York, N. Y. Embroidered appliqué. 146,970; June 24.
- Kaufman, Paul, New York, N. Y. Pin or similar article. 146,282; Jan. 28.
- Kaufman, Paul, New York, N. Y. Pin or similar article. 147,750; Oct. 28.
- Kaufman, Paul, New York, N. Y. Pin or similar article. 147,751; Oct. 28.
- Kaufman, Paul, New York, N. Y. Pin or similar article. 147,752; Oct. 28.
- Kaufman, Paul, New York, N. Y. Earring or similar article. 147,753; Oct. 28.
- Kaufman, Paul, New York, N. Y. Earring or similar article. 147,754; Oct. 28.
- Kaufman, Paul, New York, N. Y. Earring or similar article. 147,755; Oct. 28.
- Kaufman, Paul, New York, N. Y. Earring or similar article. 147,756; Oct. 28.
- Kaufman, Paul, New York, N. Y. Earring or similar article. 147,757; Oct. 28.
- Kaufman, Paul, New York, N. Y. Earring or similar article. 147,758; Oct. 28.
- Kaufman, Paul, New York, N. Y. Pin or similar article. 147,793; Nov. 4.
- Kaufman, Paul, New York, N. Y. Pin or similar article. 147,794; Nov. 4.
- Kaufman, Paul, New York, N. Y. Pin or similar article. 147,795; Nov. 4.
- Kaufman, Paul, New York, N. Y. Earring or similar article. 147,796; Nov. 4.
- Kaufman, Paul, New York, N. Y. Pin or similar article. 147,855; Nov. 11.
- Kaufman, Paul, New York, N. Y. Earring or similar article. 147,856; Nov. 11.
- Kaufman-Ruderman Co. Inc., assignee: *See—*  
Fearn, George E.
- Kaufman, William, Winfield Park, N. J. Clothespin. 146,719; Apr. 29.
- Kaupmann, Frederick, Brooklyn, N. Y., assignor to Ronson Art Metal Works, Inc., Newark, N. J. Lighter or similar article. 146,920; June 10.
- Kavenagh, William E., Windsor, Vt., assignor to Wing-foot Corporation, Akron, Ohio. Shoe sole. 146,504; Mar. 25.
- Kavenagh, William E., Windsor, Vt., assignor to Wing-foot Corporation, Akron, Ohio. Shoe sole. 146,505; Mar. 25.
- Kay, Stanley W., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Railway vehicle. 146,313; Feb. 4.
- Kaye, Gerald O.: *See—*  
Strauss, Irving, and Kaye.
- Kayer, Jean H., Hollywood, Calif. Fingernail guard. 147,797; Nov. 4.
- Kebler, Frank E., Silverton, assignor to The Globe Vernice Co., Norwood, Ohio. Letter tray spacer. 146,259; Jan. 21.
- Keenan, James, Los Angeles, Calif. Lighter. 147,131; July 15.
- Keener, Harry J., Minerva, and G. C. Gartner, Salem, Ohio. Condiment holder or similar article. 148,075; Dec. 9.
- Keesing, Isaac, Jr., Washington, D. C. Card index or the like. 148,076; Dec. 9.
- Keillor, Kingsley P., Waterbury, Conn. Card holder or similar article. 148,175; Dec. 23.
- Keller, August, Dearborn, Mich. Folding top for motor vehicles. 147,458; Sept. 9.
- Keller, Clarence H., assignor of one-third to N. P. Floss and one-third to H. W. Rust, Buffalo, N. Y. Pull toy. 146,741; May 6.
- Keller, Leonard, Tuckahoe, N. Y., assignor to Borg-Warner Corporation, Chicago, Ill. Sink. 147,332; Aug. 19.
- Keller, Leonard, Tuckahoe, N. Y., assignor to Borg-Warner Corporation, Chicago, Ill. Sink. 147,333; Aug. 19.
- Keller, Leonard, Tuckahoe, N. Y., assignor to Borg-Warner Corporation, Chicago, Ill. Sink. 147,334; Aug. 19.
- Kelley, John C., New Haven, Conn. Rosary of the Stations of the Cross. 146,577; Apr. 8.
- Kelly, Leo J., assignor to National Sanitary Supply Association, Chicago, Ill. Badge. 147,559; Sept. 23.
- Kelly, Miles J., assignor to Cresale Incorporated, Waterbury, Conn. Flashlight. 147,798; Nov. 4.
- Kendall, Paul D.: *See—*  
Tresise, Raleigh E., and Kendall.
- Kenny, Mary O., San Bernardino, Calif. Nightgown. 146,506; Mar. 25.
- Kenyon Instrument Co., Inc., assignee: *See—*  
Newell, Arthur T.
- Kenyon, James L., assignee: *See—*  
Joyce, Harry P., and Kreppel.
- Kienzle, Raymond J., assignor to Badger Glove and Slipper Company, Milwaukee, Wis. Child's high-top slipper. 147,411; Sept. 2.
- Kimmelstiel, Ruth M., New York, N. Y. Napkin holder. 146,830; May 27.
- King, Henry T., Detroit, Mich. Window regulator handle. 147,560; Sept. 23.
- King, James L.: *See—*  
Hamilton, Rufus W., and King.
- Kingman, Dong, New York, N. Y. Textile fabric. 146,605; Apr. 15.
- Kingman, Dong, New York, N. Y. Textile fabric. 146,606; Apr. 15.
- Kingman, Dong, New York, N. Y. Textile fabric. 146,607; Apr. 15.
- Kinsley, Felix P., St. Louis, Mo. Finger ring. 146,448; Mar. 11.
- Kinslow, Henry M., Pasadena, Calif. Wheeled vehicle. 146,365; Feb. 18.
- Kirby, James B., West Richfield, Ohio. Vacuum cleaner tank. 146,180; Jan. 7.
- Kirik, Ted, New York, N. Y. Game device. 146,578; Apr. 8.
- Kirkpatrick, Marie A., Grand Rapids, Mich., assignor to Lullabye Furniture Corporation, Stevens Point, Wis. Child's costume. 147,561; Sept. 23.
- Kirkpatrick, Marie A., Grand Rapids, Mich., assignor to Lullabye Furniture Corporation, Stevens Point, Wis. Costume. 147,562; Sept. 23.
- Kirkpatrick, Marie A., Grand Rapids, Mich., assignor to Lullabye Furniture Corporation, Stevens Point, Wis. Convertible chair and table. 147,671; Oct. 14.
- Kirkpatrick, Marie A., Grand Rapids, Mich., assignor to Lullabye Furniture Corporation, Stevens Point, Wis. Child's chifforobe. 147,672; Oct. 14.
- Kirkpatrick, Marie A., Grand Rapids, Mich., assignor to Lullabye Furniture Corporation, Stevens Point, Wis. Nursery chair. 148,247; Dec. 30.
- Kirkpatrick, Marie A., Grand Rapids, Mich., assignor to Lullabye Furniture Corporation, Stevens Point, Wis. Child's bed. 148,248; Dec. 30.
- Kittridge, James B., Euclid, Ohio. Sled. 148,108; Dec. 16.
- Kitzmiller, Richard D., assignee: *See—*  
Schaub, Gordon A.
- Kleinberg, Harry I., Pittsburgh, Pa. Relish tray. 147,909; Nov. 18.
- Kleinert, I. B., Rubber Co., assignee: *See—*  
Guinzburg, George K.
- Kleinert, I. B., Rubber Company, assignee: *See—*  
Guinzburg, George K.
- Kleven, Samuel L., Augusta, Maine. Shoe or similar article. 146,662; Apr. 22.
- Kleven, Samuel L., Augusta, Maine. Shoe or similar article. 146,663; Apr. 22.
- Klingberg, Arthur F., assignor to R. A. Schober, Chicago, Ill. Lamp. 147,590; Sept. 30.
- Klose, Alfred J., Rolling Hills, Calif., assignor to G. M. Giannini & Co., Inc., New York, N. Y. Model airplane. 146,941; June 17.
- Kloth, Arthur, San Francisco, Calif. Scoop for popcorn, candies, peanuts, and the like. 147,459; Sept. 9.
- Klotz, Edward C., Jr.: *See—*  
Wickesberg, Alfred W., and Klotz.
- Kluge, Myron E., Los Angeles, Calif. Radio transmitter cabinet. 146,860; June 3.
- Kneeland, Lena B., Kenmore, N. Y. Combined infant wardrobe and bath unit. 146,861; June 3.
- Kniep, Louis, Jr., East Orange, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Radio receiver. 146,664; Apr. 22.
- Kniep, Louis, Jr., East Orange, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Radio cabinet. 147,460; Sept. 9.
- Knight, George C., Detroit, Mich. Fog lamp for automobiles. 147,335; Aug. 19.
- Knight, George C., Detroit, Mich. Rear view mirror for automobiles. 147,799; Nov. 4.
- Knisely, Virgil M., assignor to Gro-Cord Rubber Company, Lima, Ohio. Shoe sole. 147,412; Sept. 2.
- Knisely, Virgil M., assignor to Gro-Cord Rubber Company, Lima, Ohio. Shoe sole. 147,413; Sept. 2.
- Knutson, Norman T., assignor to Bell & Howell Company, Chicago, Ill. Picture projector housing. 147,910; Nov. 18.
- Koch, John B., assignor to American Blower Corporation, Detroit, Mich. Ventilating fan. 147,336; Aug. 19.
- Koenig, Frank J., assignor to Skillaw, Inc., Chicago, Ill. Floor sanding machine or the like. 147,502; Sept. 16.
- Koenigsberger, Franz, New York, N. Y. Decorative cover for bottles. 147,337; Aug. 19.
- Kono, Alexander, Flushing, assignor to The Kono Manufacturing Company, Woodside, N. Y. Spectacle frame. 146,224; Jan. 14.



- Kono, Alexander, Flushing, assignor to The Kono Manufacturing Company, Woodside, N. Y. Spectacle frame. 146,225; Jan. 14.
- Kono Manufacturing Company, The, assignee: *See*—Kono, Alexander.
- Koret of California, Inc., assignee: *See*—Sachs, Roger E.
- Korrol, Irving, New York, N. Y. Flashlight telegraph key. 148,109; Dec. 16.
- Krakauer Bros., assignee: *See*—Cushing, George W.
- Kramer, Ferdinand, Port Chester, N. Y. Display rack. 147,591; Sept. 30.
- Kratz, Clinton H., assignor to Cincinnati Metalcrafts, Inc., Cincinnati, Ohio. Plaque. 147,980; Nov. 25.
- Kreppel, Mathias: *See*—Joyce, Harry P., and Kreppel.
- Kress, George H., Vestal, assignor to International Business Machines Corporation, New York, N. Y. Clock casing. 146,283; Jan. 28.
- Kress, George H., Johnson City, assignor to International Business Machines Corporation, New York, N. Y. Verifier. 147,247; Aug. 5.
- Kress, George H., Johnson City, assignor to International Business Machines Corporation, New York, N. Y. Punched card reproducing machine. 147,248; Aug. 5.
- Kreutzer, A. A., assignee, et al.: *See*—Brickson, Obert H.
- Kroenlein, Henry A., Jackson, Mich. Vacuum cleaner casing. 146,971; June 24.
- Krohn, Fred A., Gary, Ind., assignor to Productive Inventions, Inc. Shroud for windshield wiper arm. 146,972; June 24.
- Kropp, Roy A., River Forest, Ill. Walking animal figure. 146,720; Apr. 29.
- Kruck, Ralph E., Longmeadow, assignor to Florence Stove Company, Gardner, Mass. Combined range top and back guard assembly. 147,338; Aug. 19.
- Krueger, Theodore H., Stratford, assignor to Better Packages Incorporated, Shelton, Conn. Adhesive tape dispenser. 146,473; Mar. 18.
- Kruger, Maurice J., assignor to Kruger-Ressner, Inc., New York, N. Y. Handbag. 147,461; Sept. 9.
- Kruger-Ressner, Inc., assignee: *See*—Kruger, Maurice J.
- Krutz, James C., Charleroi, assignor to National Steel Fabric Company, Pittsburgh, Pa. Bracelet. 146,474; Mar. 18.
- Krutz, James C., Charleroi, assignor to National Steel Fabric Company, Pittsburgh, Pa. Bracelet. 146,475; Mar. 18.
- Krutz, James C., Charleroi, assignor to National Steel Fabric Company, Pittsburgh, Pa. Bracelet. 146,476; Mar. 18.
- Krutz, James C., Charleroi, assignor to National Steel Fabric Company, Pittsburgh, Pa. Bracelet. 146,477; Mar. 18.
- Krutz, James C., Charleroi, assignors to National Steel Fabric Company, Pittsburgh, Pa. Bracelet. 146,478; Mar. 18.
- Krutz, James C., Charleroi, assignors to National Steel Fabric Company, Pittsburgh, Pa. Bracelet. 146,479; Mar. 18.
- Krutz, James C., Charleroi, assignor to National Steel Fabric Company, Pittsburgh, Pa. Bracelet. 146,480; Mar. 18.
- Kuhler, Otto, Blauvelt, assignor to American Car and Foundry Company, New York, N. Y. Rail vehicle. 146,545; Apr. 1.
- Kuhler, Otto, Blauvelt, assignor to American Car and Foundry Company, New York, N. Y. Railway vehicle. 147,132; July 15.
- Kuhler, Otto, Blauvelt, assignor to American Car and Foundry Company, New York, N. Y. Combined washstand and vanity. 147,759; Oct. 28.
- Lachman, Harry, Beverly Hills, Calif. Combined bottle opener and ice pick. 147,732; Oct. 21.
- Ladd, Russell H., assignor to Victor Equipment Company, San Francisco, Calif. Gas flow meter. 148,249; Dec. 30.
- Laessig, Robert, New York, N. Y. Tablecloth or similar article. 146,579; Apr. 8.
- Lambert, Reuben B., assignor to Supergede Corporation, Erie, Pa. Knife sharpener. 146,921; June 10.
- La Mere, Frank J., Minneapolis, Minn. Hair clipper casing. 147,050; July 8.
- Lancia, George, Los Angeles, Calif. Building. 146,410; Feb. 25.
- Landau, Sam, New York, N. Y. Negligee. 147,800; Nov. 4.
- Landers, Frary & Clark, assignee: *See*—Russell, William J.
- Landwehr, Richard F., Laurelton, assignor to American Safety Razor Corporation, Brooklyn, N. Y. Lighter. 146,973; June 24.
- Lange, Homer A., assignor to Balcrank, Inc., Cincinnati, Ohio. Grease pump. 146,260; Jan. 21.
- Langella, Albert, Providence, R. I. Pin. 148,176; Dec. 23.
- Larkin, Elwood T., Buffalo, N. Y. Toothbrush holder. 147,291; Aug. 12.
- Larocque, Cyril, Baltimore, Md. Pair of scissors. 147,801; Nov. 4.
- Larsen, Agnew E., Jenkintown, Pa., assignor, by mesne assignments, to The Glenn L. Martin Company, Baltimore, Md. Helicopter. 146,798; May 20.
- Larsen, Agnew E., Jenkintown, Pa., assignor, by mesne assignments, to The Glenn L. Martin Company, Baltimore, Md. Helicopter. 146,799; May 20.
- Larsen, Harvey E., Steger, Ill. Picture frame or similar article. 148,110; Dec. 16.
- Larsen, Olaf F., Jr., Demarest, N. J., assignor to Noma Electric Corporation, New York, N. Y. Multiple wheeled pull toy. 146,507; Mar. 25.
- Larsen, Olaf F., Jr., Demarest, N. J., assignor to Noma Electric Corporation, New York, N. Y. Toy dump truck. 146,508; Mar. 25.
- Larsen, Olaf F., Jr., Demarest, N. J., assignor to Noma Electric Corporation, New York, N. Y. Toy ferryboat. 146,509; Mar. 25.
- Larsen, Olaf F., Jr., Demarest, N. J., assignor to Noma Electric Corporation, New York, N. Y. Toy trailer. 146,510; Mar. 25.
- Larsen, Olaf F., Jr., Demarest, N. J., assignor to Noma Electric Corporation, New York, N. Y. Toy steamboat. 147,339; Aug. 19.
- Larsen, Olaf F., Jr., Demarest, N. J., assignor to Noma Electric Corporation, New York, N. Y. Peg board. 147,340; Aug. 19.
- Larson, Karl O., Minneapolis, Minn. Lamp shade. 147,857; Nov. 11.
- Larson, Raymond T., Chicago, Ill. Camera. 146,800; May 20.
- Larson, Robert H., Batavia, assignor to Operadio Manufacturing Co., St. Charles, Ill. Combination projector and sound reproducer. 146,411; Feb. 25.
- Laszlo, Margit F., assignor to Cole of California Inc., Los Angeles, Calif. Swimming suit or the like. 147,592; Sept. 30.
- Latham, Richard S., Chicago, Ill., assignor to The Hallcrafters Co. Speaker. 147,341; Aug. 19.
- Lathrop, Alyce, Pleasant Valley, N. J. Slack suit. 147,013; July 1.
- Lauer, Henry A., Chicago, Ill. Sheet of metal or similar flat surface material. 146,721; Apr. 29.
- Lauro, Frances E., Bronx, N. Y. Lapel watch or similar article. 146,922; June 10.
- Lawson, George S., St. Clair Shores, Mich. Pin or similar article. 148,111; Dec. 16.
- Lawson, George S., St. Clair Shores, Mich. Pin or similar article. 148,112; Dec. 16.
- Lawson, James P., Miami, Fla., assignor to Cruver Manufacturing Company, Chicago, Ill. Golf club grip. 148,029; Dec. 2.
- Laystrom, Carl A.: *See*—Fanelli, Walter, and Laystrom.
- Leach, H., Machinery Co., assignee: *See*—Leach, Max.
- Leach, Max, Providence, R. I., assignor to H. Leach Machinery Co. Polishing head. 148,077; Dec. 9.
- Leber, Benjamin F., assignor to Sears, Roebuck and Co., Chicago, Ill. Frame for playground equipment. 146,665; Apr. 22.
- Lederer, George J., Providence, R. I. Bracelet. 146,511; Mar. 25.
- Lederer, George J., Providence, R. I. Bracelet. 146,512; Mar. 25.
- Lederer, George J., Providence, R. I. Bracelet. 146,513; Mar. 25.
- Lederer, George J., Providence, R. I. Pendant. 146,942; June 17.
- Lederer, George J., Providence, R. I. Pendant. 146,943; June 17.
- Lederer, George J., Providence, R. I. Pin. 147,051; July 8.
- Lederer, George J., Providence, R. I. Pin. 147,052; July 8.
- Lederer, George J., Providence, R. I. Pin. 147,053; July 8.
- Lederer, George J., Providence, R. I. Bracelet. 147,054; July 8.
- Lederer, George J., Providence, R. I. Bracelet. 147,055; July 8.
- Lederer, George J., Providence, R. I. Bracelet. 147,056; July 8.
- Lehman, James W., Atlanta, Ga., assignor to The Coca-Cola Company, Wilmington, Del. Bottle carrying case. 147,981; Nov. 25.
- Leitner, Arthur S., Los Angeles, Calif. Boot hook. 146,722; Apr. 29.
- Leitner, Arthur S., Los Angeles, Calif. Boot hook. 146,974; June 24.
- Leivo, Victor P., Cadillac, assignor to Metal Lite Products Co., Bay City, Mich. Fishing rod. 147,462; Sept. 9.
- Lelong, Lucien, Paris, France, assignor to Lucien Lelong, Inc., Chicago, Ill. Perfume bottle, or similar article. 148,078; Dec. 9.
- Leming, Samuel W., Pittsburgh, Pa. Hose supporter. 146,923; June 10.
- Lencer, Martin H., Los Angeles, Calif. Clock or similar article. 146,412; Feb. 25.
- Lencer, Martin H., Los Angeles, Calif. Clock or similar article. 146,413; Feb. 25.
- Lencer, Martin H., Los Angeles, Calif. Clock or similar article. 146,414; Feb. 25.
- Lencer, Martin H., Los Angeles, Calif. Desk clock or similar article. 146,415; Feb. 25.
- Lens, Georges X., Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y. Combined keyboard and tape printer for electrical computing apparatus. 146,801; May 20.



- Lerman, Joseph, Brooklyn, N. Y. Wall lamp or similar article. 146,975; June 24.
- Lesley, Oliver R., Clayton, Mo. Key holder. 146,976; June 24.
- Lesner, Roy H.: *See*—  
Stacey, Ted R., and Lesner.
- Lester, Garson: *See*—  
Lester, Morris I., Braver, and Lester.
- Lester, Morris I., A. Braver, and G. Lester, Detroit, Mich. Tray. 147,673; Oct. 14.
- Le Vant Brush Company, assignee: *See*—  
Witte, Isadore O.
- Leventhal, Leon, New York, N. Y. Jacket. 146,802; May 20.
- Leventhal, Leon, New York, N. Y. Jacket. 146,977; June 24.
- Levine, Alex, Passaic, N. J. Service cabinet for phonographic records. 148,030; Dec. 2.
- Levings, Harriett E., Centuria, Wis. Stand. 147,674; Oct. 14.
- Levoy, Monroe B., New York, N. Y. Spectacle frame. 146,666; Apr. 22.
- Levoy, Monroe B., New York, N. Y. Spectacle frame or similar article. 147,368; Aug. 26.
- Levy, Abraham, assignor to Parfums L'Orle, Inc., New York, N. Y. Shaving soap bowl or the like. 146,723; Apr. 29.
- Levy, Samuel, assignee: *See*—  
Southwick, Worthington H.
- Lewis, Benjamin, New York, N. Y., assignor to L. Rothchild, Dallas, Tex. Bottle. 146,862; June 3.
- Lewis, Benjamin, New York, N. Y., assignor to Lionel Rothchild, Dallas, Tex. Combined bottle and container. 147,858; Nov. 11.
- Lewis, Benjamin, New York, N. Y., assignor to L. Rothchild, Dallas, Tex. Bottle. 147,911; Nov. 18.
- Lewis, Benjamin, New York, N. Y., assignor to L. Rothchild, Dallas, Tex. Bottle. 147,912; Nov. 18.
- Lewis, Max J., Forest Hills, N. Y. Cigarette case. 147,057; July 8.
- Lewis, Max J., Forest Hills, N. Y. Wall bracket. 147,913; Nov. 18.
- Leyva, Ernest W.: *See*—  
Valinski, Michael F., and Leyva.
- Libbey-Owens-Ford Glass Company, assignee: *See*—  
Sherwin, Ralph J.
- Lichter, Jesse S., New York, N. Y. Brooch. 148,031; Dec. 2.
- Liebmann Breweries, Inc., assignee: *See*—  
Austin, Harold J.
- Lindstrom, Charles M., East Greenwich, assignor to Boston Wire Stitcher Company, Warwick, R. I. Stapling appliance. 148,032; Dec. 2.
- Lillich, Samuel N., Detroit, Mich. Putter head. 146,431; Mar. 4.
- Lipare, Evelyn Z., New York, N. Y. Shoe or similar article. 147,249; Aug. 5.
- Lipare, Evelyn Z., New York, N. Y. Shoe or similar article. 147,250; Aug. 5.
- Lipic, Joseph G., assignor to Jos. Lipic Pen Co., St. Louis, Mo. Letter opener. 147,593; Sept. 30.
- Lipic, Jos., Pen Co., assignee: *See*—  
Lipic, Joseph G.
- Lippincott, Joshua G., New York, assignor to Eberhard Faber Corporation, Brooklyn, N. Y. Cap for a fountain pen or similar article. 146,181; Jan. 7.
- Lippincott, Joshua G., Scarsdale, assignor to Simmons Company, New York, N. Y. Thermostatic control cabinet. 148,079; Dec. 9.
- Lippman, Aaron H., assignor to Jay-Lip Corporation, Jamestown, N. Y. Envelope moistener. 146,667; Apr. 22.
- Lisl, Frank A., Philadelphia, Pa. Doll's cradle. 146,944; June 17.
- Little, John M., Toledo, assignor to Defiance Machine Works, Inc., Defiance, Ohio. Drill press. 146,608; Apr. 15.
- Little, John M., assignor to Toledo Scale Company, Toledo, Ohio. Meat chopper. 146,803; May 20.
- Little, John M., Toledo, Ohio, assignor to Westinghouse Electric Corporation. Refrigerator cabinet. 147,802; Nov. 4.
- Lochridge, Bertha M., Syracuse, N. Y. Toy dog. 147,219; July 29.
- Lockheed Aircraft Corporation, assignee: *See*—  
Merendino, Salvatore.
- Lockwood, Jack C., Los Angeles, Calif. Combined extinguisher and ash tray. 146,366; Feb. 18.
- Loewy, Raymond, New York, N. Y., assignor to Industrial Tape Corporation. Adhesive tape dispenser. 146,449; Mar. 11.
- Loewy, Raymond, New York, N. Y., assignor to The Coca-Cola Company, Wilmington, Del. Cooler. 147,369; Aug. 26.
- Loewy, Raymond, New York, N. Y., assignor to The Coca-Cola Company, Wilmington, Del. Cooler cabinet. 147,370; Aug. 26.
- London, Murrey M., assignor to California Slack Rack Co., Venice, Calif. Combined tie, trouser, and jewelry holder. 146,831; May 27.
- Longren Aircraft Company, assignee: *See*—  
Peterson, Albin K.
- Lonstein, Louis, Bronx, N. Y. Wall rack or similar article. 147,675; Oct. 14.
- Loper, Oscar B.: *See*—  
Camp, Dewey W., and Loper.
- Lowell, Benjamin W., Jr., Richmond Heights, Mo. Speaker housing. 146,863; June 3.
- Lowenstein, Malcolm W., assignor of one-half to S. Silberstein, Baltimore, Md. Bottle. 147,014; July 1.
- Lower, Frederick A., Wichita Falls, Tex. Combination ash tray and cigarette holder. 146,770; May 13.
- Lucero, Charles R., assignee: *See*—  
Shields, Stanley R.
- Lucien Lelong, Inc., assignee: *See*—  
Lelong, Lucien.
- Luketa, Frank J., Seattle, Wash. Adjustable lounge chair. 147,463; Sept. 9.
- Lullabye Furniture Corporation, assignee: *See*—  
Kirkpatrick, Marie A.
- Lutz, William, New York, N. Y. Bracelet. 147,015; July 1.
- Lux, Eugene J., New York, N. Y., assignor to Columbia Protektosite Company, Inc., Carlstadt, N. J. Comb with handle. 146,945; June 17.
- Lynn, Robert J., Chicago, Ill. Pencil. 147,982; Nov. 25.
- Mabs, Inc., assignee: *See*—  
Minger, Robert E.
- Maccaterri, Mario, Rye, N. Y. Clothes pin. 147,803; Nov. 4.
- Maccaterri, Mario, Rye, N. Y. Clothes pin. 147,804; Nov. 4.
- MacDonald, Ralph L., Niagara Falls, N. Y. Book-end. 146,668; Apr. 22.
- Mack, John B., Jr., Freeport, assignor to The American Bankers Association, New York, N. Y. Advertising literature holder. 146,978; June 24.
- Mack, John L., Sr., Chicago, Ill. Garment hanger. 146,261; Jan. 21.
- Mack, John L., Sr., Chicago, Ill. Garment hanger. 146,262; Jan. 21.
- MacQuarrie, Hector K., San Francisco, Calif. Table lamp. 147,676; Oct. 14.
- MacQuarrie, Hector K., San Francisco, Calif. Lamp. 148,033; Dec. 2.
- Mader, Joseph, assignor to Maremont Automotive Products, Inc., Chicago, Ill. Wheel hoe. 146,226; Jan. 14.
- Mader, Joseph, assignor to Maremont Automotive Products, Inc., Chicago, Ill. Wheel hoe. 146,227; Jan. 14.
- Madsen, Carl D., Brigham, Utah. Body for a hobbyhorse. 148,177; Dec. 23.
- Madsen, John S., New York, N. Y. Tablecloth or similar article. 146,669; Apr. 22.
- Madsen, John S., New York, N. Y. Tablecloth or similar article. 147,342; Aug. 19.
- Madsen, Paul S.: *See*—  
Manville, Charles T., and Madsen.
- Magnelli, Joseph J., and L. Mone, Columbus, Ohio. Tray for smoking pipes. 146,670; Apr. 22.
- Mahler, John S., Highland Park, Ill. Dog play strap. 146,367; Feb. 18.
- Maier, Simon S.: *See*—  
Bradstock, Philip, and Maier.
- Mallinowski, Harry A., assignor to The Ellmore Silver Co., Inc., Meriden, Conn. Plate or similar article. 146,514; Mar. 25.
- Mandel, Louis, Newark, N. J. Picture frame. 148,113; Dec. 16.
- Mangini, Norman J., Los Angeles, Calif. Condiment shaker. 146,979; June 24.
- Mangold, Aurel E., New York, N. Y. Spectacle frame. 146,609; Apr. 15.
- Manheimer, Olive C., Cleveland, Ohio. Combined typewriter eraser, brush, and chalk holder. 146,481; Mar. 18.
- Mankki, Onnie, Cleveland Heights, assignor to Designers for Industry, Inc., Cleveland, Ohio. Chair. 147,133; July 15.
- Manns, Clyde E.: *See*—  
Williams, Clifford W., and Manns.
- Manville, Charles T., Woodbury, and P. S. Madsen, Bethany, assignors to The Seamless Rubber Company, New Haven, Conn. Bath spray head. 146,864; June 3.
- Manzeroll, Jeffrey, Montreal, Quebec, Canada. Eggcup. 146,338; Feb. 11.
- Maremont Automotive Products, Inc., assignee: *See*—  
Mader, Joseph.
- Marino, Paul, Pawtucket, R. I., and E. Steiner, New York, N. Y. Brooch or similar article. 147,621; Oct. 7.
- Markus, Frederick E., Belmont, Mass. Arm chair. 147,464; Sept. 9.
- Markus, Frederick E., Belmont, Mass. Chair. 148,034; Dec. 2.
- Marossi, Maurice, New York, N. Y. Doll or similar article. 146,284; Jan. 28.
- Marsella, Julio J., Providence, R. I. Jewelry pin or similar article. 146,184; Jan. 7.
- Marsella, Julio J., Providence, R. I. Earring. 146,185; Jan. 7.
- Marsella, Julio J., Providence, R. I. Jewelry pin or similar article. 146,186; Jan. 7.
- Marsella, Julio, Providence, R. I. Jewelry pin or similar article. 146,482; Mar. 18.
- Marsella, Julio J., Providence, R. I. Jewelry pin or similar article. 147,465; Sept. 9.
- Marsella, Julio J., Providence, R. I. Earring. 147,914; Nov. 18.
- Marsella, Julio J., Providence, R. I. Jewelry pin or similar article. 147,915; Nov. 18.



- Marsella, Julio J., Providence, R. I. Jewelry pin or similar article. 147,916; Nov. 18.
- Marsella, Julio J., Providence, R. I. Jewelry pin or similar article. 147,917; Nov. 18.
- Marsella, Julio J., Providence, R. I. Jewelry pin or similar article. 147,918; Nov. 18.
- Marsella, Julio J., Providence, R. I. Jewelry pin or similar article. 147,919; Nov. 18.
- Marsh, Earle S., Temple City, Calif. Hose reel. 147,372; Aug. 26.
- Marshall, Iola G., Oakland, Calif. Statuette vase. 147,466; Sept. 9.
- Martin, Glenn L., Company, The, assignee: *See*—Larsen, Agnew E.
- Varrieur, Albert L., and Hollyday.
- Martineau, Ernest J., assignee: *See*—Persons, Ernest L.
- Martling, Walter L., Jr., assignor to Mills Industries, Incorporated, Chicago, Ill. Phonograph cabinet. 147,859; Nov. 11.
- Martling, Walter L., Jr., assignor to Mills Industries, Incorporated, Chicago, Ill. Remote controller casing. 147,860; Nov. 11.
- Martling, Walter L., Jr., assignor to Mills Industries, Incorporated, Chicago, Ill. Remote controller casing. 147,983; Nov. 25.
- Martling, Walter L., Jr., assignor to Mills Industries, Incorporated, Chicago, Ill. Loud-speaker casing. 147,984; Nov. 25.
- Martling, Walter L., Jr., assignor to Mills Industries, Incorporated, Chicago, Ill. Loud-speaker casing. 147,985; Nov. 25.
- Marx, Louis, & Company, Inc., assignee: *See*—Campbell, Laurie J.
- Mason, Roslyn S., and T. Cain, Great Neck, N. Y. Pin or similar article. 146,671; Apr. 22.
- Matchett, William H., Auburn, Calif. Game board. 147,134; July 15.
- Math, Howard N., New York, N. Y. Prayer rail or similar article. 147,503; Sept. 16.
- Matuzoff, Batrishah, Hollywood, Calif. Display stand or similar article. 146,515; Mar. 25.
- Matuzoff, Batrishah, Hollywood, Calif. Display stand or similar article. 146,516; Mar. 25.
- Matzner, Simon, New York, N. Y. Lamp stand. 146,672; Apr. 22.
- Mauney, Horace A., Lincoln, N. C. Toy dog or the like. 146,483; Mar. 18.
- Maxwell, William, Hawthorne, Calif., assignor of one-half to R. L. Hankins. Bassinet. 146,865; June 3.
- May, Robert A., Merion, Pa., assignor to B. Mayer, New York, N. Y. Case for a camera. 146,673; Apr. 22.
- Mayer, Bruno: *See*—May, Robert A.
- Maynard, Harold B., Pittsburgh, and C. W. Punton, Wilkesburg, Pa., assignors, by mesne assignments, to Haskell Manufacturing Company. Kitchen table. 147,414; Sept. 2.
- Maytag Company, The, assignee: *See*—Smith, Thomas R.
- McCaffrey, James E., Los Angeles, Calif. Roller shoe. 146,368; Feb. 18.
- McCall, Mamie B., St. Joseph, Mo. Combined pincushion and spool holder. 146,182; Jan. 7.
- McClernon, Francis H., Springfield, Mo. Hobbyhorse. 147,251; Aug. 5.
- McCormack, Roy L., Geneva, Ohio, assignor of one-half to B. M. Benton. Wheeled toy. 146,742; May 6.
- McCullough, Glenn D., Chicago, Ill. Condiment dispenser. 147,760; Oct. 28.
- McDonald, James D., Los Angeles, Calif. Garment hanger. 147,594; Sept. 30.
- McDonald, James D., Los Angeles, Calif. Switch escutcheon. 148,080; Dec. 9.
- McDuffee, Samuel, Glendale, Calif. Dispenser for insecticides or the like. 147,920; Nov. 18.
- McGaffey, Neill E., Inglewood, assignor to Radioplane Company, Van Nuys, Calif. Remotely controlled target airplane. 146,183; Jan. 7.
- McGeary, John L., San Francisco, Calif. Double-breasted coat. 147,805; Nov. 4.
- McGuinness, Edward T., assignee: *See*—Dillon, Bernard C.
- McKee, Joseph E., Los Angeles, Calif. Condiment shaker or similar article. 146,804; May 20.
- McKee, Mack J., assignor to The Figaro Company, Inc., Dallas, Tex. Packing and carrying receptacle. 147,677; Oct. 14.
- McKee, Robert F., Los Angeles, Calif. Combination toothbrush and glass holder. 147,292; Aug. 12.
- McKendry, Virgil J.: *See*—Baubie, Rex O., and McKendry.
- McLauchlan, Wallace H., Los Angeles, Calif. Airplane. 146,924; June 10.
- McLaughlin, Frank: *See*—Russo, William L., and McLaughlin.
- McManus, Joseph D., Hempfield Township, Westmoreland County, and R. O. Hunt, Greensburg, Pa., assignors to Walworth Patents Inc., Boston, Mass. Valve hand-wheel. 146,674; Apr. 22.
- McMichael, Joseph D., Jr., assignor to St. Louis Shipbuilding & Steel Co., St. Louis, Mo. Towboat. 147,343; Aug. 19.
- McMichael, Joseph D., Jr., assignor to St. Louis Shipbuilding & Steel Co., St. Louis, Mo. Towboat. 147,344; Aug. 19.
- McNatt, Sylvia G., Muscatine, Iowa. Tombstone. 147,371; Aug. 26.
- McNaughton, Frank D., Los Angeles, Calif. Set of chessmen. 148,178; Dec. 23.
- McNeill, Albert G., assignor to Bachmann Bros., Inc., Philadelphia, Pa. Spectacle frame. 146,263; Jan. 21.
- Mechanical Handling Systems, Inc., assignee: *See*—Mullen, Edward, Garman, and Jordan.
- Mellick, Dorothy, North Plainfield, N. J. Child's toy chest. 146,610; Apr. 15.
- Mellick, Dorothy, North Plainfield, N. J. Child's combined toy chest and table. 146,611; Apr. 15.
- Mellick, Dorothy, North Plainfield, N. J. Child's desk. 146,612; Apr. 15.
- Mellor, Adrien R., Loma Linda, Calif. Smoking pipe. 146,866; June 3.
- Meltzer, Morris, Detroit, Mich. Tool handle or similar article. 147,373; Aug. 26.
- Mendelsohn, William A., assignor to Jandor, Incorporated, Dayton, Ohio. Spotlight or similar article. 147,733; Oct. 21.
- Merendino, Salvatore, Pasadena, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Door latch. 146,228; Jan. 14.
- Mertes, George T., Superior, Wis. Boat. 148,081; Dec. 9.
- Merz, Steven: *See*—Free, Henry T., Robertson, and Merz.
- Meshberg, Philip, Trumbull, Conn. Cocktail shaker. 148,179; Dec. 23.
- Metal Lite Products Co., assignee: *See*—Leivo, Victor P.
- Metlox Manufacturing Company, assignee: *See*—Prouty, Willis O.
- Metro Toy Company, assignee: *See*—Berger, Martin.
- Metzger, Lewis W.: *See*—Harley, Edward J., and Metzger.
- Meyer, Carl X., assignor to Day-Brite Lighting, Inc., St. Louis, Mo. Germicidal lamp fixture. 147,467; Sept. 9.
- Meyercord Co., The, assignee: *See*—Westrate, Ada.
- Miller, Arthur G., assignor of one-third to D. D. Grant and one-third to J. W. Miller, Long Beach, Calif. Lamp or similar article. 146,867; June 3.
- Miller, Benjamin B., New York, N. Y. Broom hanger bracket. 146,229; Jan. 14.
- Miller, Jerome J., Ottoville, Ohio. Toy airplane. 146,580; Apr. 8.
- Miller, Johnnie W., assignee, et al.: *See*—Miller, Arthur G.
- Miller, Nels A., Oak Park, assignor to J. P. Seeburg Corporation, Chicago, Ill. Speaker unit cabinet. 147,861; Nov. 11.
- Miller, Stanley F., Oakland, Calif. Combined clock and photo mount. 147,504; Sept. 16.
- Miller, Willis H., Dallas, Tex. Envelope opener or similar article. 148,082; Dec. 9.
- Miller, Willis H., Dallas, Tex. Paper knife. 148,083; Dec. 9.
- Millhauser, Eugene K., assignor to M. Oedeker, Jr., Los Angeles, Calif. Card and poker chip rack. 146,805; May 20.
- Millott, Arthur T., Minneapolis, Minn. Frozen food merchandising unit. 146,369; Feb. 18.
- Mills Industries, Incorporated, assignee: *See*—Martling, Walter L., Jr.
- Milwaukee Lace Paper Company, assignee: *See*—Hamilton, Kenneth C.
- Milwaukee Saddlery Company, assignee: *See*—Hampel, John R.
- Mine Safety Appliances Company, assignee: *See*—Perrin, Paul C.
- Minger, Robert E., Manhattan Beach, assignor to Mabs, Inc., Los Angeles, Calif. Textile fabric or similar article. 147,563; Sept. 23.
- Minnesota and Ontario Paper Company, assignee: *See*—Draper, George, and Warner.
- Mishawaka Rubber and Woolen Manufacturing Company, assignee: *See*—Shaffer, Alfred E.
- Mitchell, Jeanette F., and S. S. Brown, Portsmouth, Va. Figure toy. 146,946; June 17.
- Mitschang, Frank, Buffalo, N. Y. Toy helicopter. 146,187; Jan. 7.
- Modern Plastic Co., assignee: *See*—Ballard, Wade E.
- Moeller, Alfred H.: *See*—Nickstadt, Albert G., and Moeller.
- Moessner, Helen, assignee: *See*—Tullgren, Lester C.
- Moholy-Nagy, Laszlo, Chicago, Ill., assignor to The Parker Pen Company, Janesville, Wis. Fountain pen. 146,806; May 20.
- Mokszycski, Pete E.: *See*—Gillespie, Victor H., and Mokszycski.
- Molded Products Company, assignee: *See*—Zegel, William P.
- Mone, Louis: *See*—Magnelli, Joseph J., and Mone.



- Money, Roland H., Mount Healthy, Ohio, and M. A. Ferar, Detroit, Mich., assignors to Reynolds Metals Company, Richmond, Va. Refrigerator. 147,921; Nov. 18.
- Money, Roland H., Mount Healthy, Ohio, and M. A. Ferar, Detroit, Mich., assignors to Reynolds Metals Company, Richmond, Va. Refrigerator. 147,922; Nov. 18.
- Monroe, Forrest B.: *See—*  
Moore, Lewis K., and Monroe.
- Montana, Ignatius: *See—*  
Reynolds, Harry R., and Montana.
- Montaquila, John and S., Cranston, R. I. Earring or similar article. 148,084; Dec. 9.
- Montaquila, John and S., Cranston, R. I. Brooch or similar article. 148,180; Dec. 23.
- Montaquila, Samuel: *See—*  
Montaquila, John and S.
- Moonert, Harold F., Willoughby, Ohio. Picture mount. 146,264; Jan. 21.
- Moore Business Forms, Inc., assignee: *See—*  
Teague, Walter D.
- Moore, Frank N., Chicago, Ill. Flower holder. 146,484; Mar. 18.
- Moore, Lewis K., Winchester, and F. B. Monroe, Winthrop, assignors to Moore and Monroe, Inc., Boston, Mass. Clothespin. 146,230; Jan. 14.
- Moore and Monroe, Inc., assignee: *See—*  
Moore, Lewis K., and Monroe.
- Mooss, John, Alhambra, Calif. Combined egg server and opener or similar article. 146,370; Feb. 18.
- Moran, Peter, Cleveland, Ohio. Combined child's vehicle and package carrier. 147,135; July 15.
- Moran, Ralph V., assignor to V. Moran, Bradford, Pa. Coin bank. 147,345; Aug. 19.
- Moran, Ralph V., assignor to V. Moran, Bradford, Pa. Coin bank. 147,346; Aug. 19.
- Moran, Vic, assignee: *See—*  
Moran, Ralph V.
- Moran, William F., assignor to The Ellmore Silver Co., Inc., Meriden, Conn. Fork or other article of flatware. 146,188; Jan. 7.
- Moran, William F., assignor to The Ellmore Silver Co., Inc., Meriden, Conn. Spoon or other article of flatware. 147,016; July 1.
- Morehouse, Eugene M., Tujunga, Calif., assignor to Adel Precision Products Corp. Detergent supply tank for dishwashing apparatus. 147,136; July 15.
- Morgan Manufacturing Company, Inc., assignee: *See—*  
Obbrig, Gordon E.
- Morrill, Carle H., Madison, Conn. Spectacle frame. 146,371; Feb. 18.
- Morris, Harry, Chicago, Ill. Plastic fabric. 147,347; Aug. 19.
- Morrison, Willard L., Lake Forest, Ill. Refrigerator. 146,314; Feb. 4.
- Mosco, Philip A., Elmhurst, Long Island, N. Y. Musical string toy. 147,761; Oct. 28.
- Mosley, Elmer E., Fort Worth, Tex. Soda straw dispenser. 147,415; Sept. 2.
- Mossberg, Frank, Attleboro, Mass. Bottle opener. 146,485; Mar. 18.
- Motion Picture Engineering Corporation, assignee: *See—*  
Bradford, Arthur J.
- Mourar, Janice, Missoula, Mont. Lapel ornament or similar article. 147,505; Sept. 16.
- Mucci, Charles, Detroit, Mich. Bracelet. 146,980; June 24.
- Mueller, Arthur W., Cincinnati, Ohio. Steak tenderer machine. 147,678; Oct. 14.
- Mueller, Roy A., Bay City, Mich. Weathervane. 148,085; Dec. 9.
- Muench, Charles M., New York, N. Y. Orphrey or similar article. 147,137; July 15.
- Muench, Charles M., New York, N. Y. Orphrey or similar article. 147,138; July 15.
- Muench, Charles M., New York, N. Y. Orphrey or similar article. 147,139; July 15.
- Mullen, Edward, L. H. Garman, and J. C. Jordan, assignors to Mechanical Handling Systems, Inc., Detroit, Mich. Trailer vehicle body. 148,250; Dec. 30.
- Murphy, Francis J., Syracuse, N. Y. Holder for wood matches. 146,868; June 3.
- Murray Corporation of America, The, assignee: *See—*  
Trombley, Bertrand N.
- Murray, Harold W., San Pedro, Calif. Sewing box. 146,743; May 6.
- Murray, Robert A.: *See—*  
Hvale, James L., and Murray.
- Murray, Robert A., Evanston, assignor to Ekco Products Company, Chicago, Ill. Flashlight. 147,058; July 8.
- Musgrave, Robert W., Alhambra, Calif. Drafting implement. 146,285; Jan. 28.
- Musselman, Stanley L., South Orange, N. J. Show case. 146,372; Feb. 18.
- Musser, Charles W., Danville, assignor to Etc., Inc., Chicago, Ill. Toaster housing. 147,734; Oct. 21.
- Myers, Reuben, Southport, England, assignor, by mesne assignments, to Plastispec Incorporated, New York, N. Y. Pair of spectacles. 146,416; Feb. 25.
- Nachman, Jack, Philadelphia, Pa. Apron drum or similar article. 147,986; Nov. 25.
- Naidish, Abraham, North Bergen, N. J. Sweater or similar article. 146,286; Jan. 28.
- Naidish, Abraham, North Bergen, N. J. Sweater or similar article. 146,287; Jan. 28.
- Naidish, Abraham, North Bergen, N. J. Sweater or similar article. 146,613; Apr. 15.
- Naidish, Abraham, North Bergen, N. J. Sweater or similar article. 147,220; July 29.
- Nalick, Albert, Los Angeles, Calif. Belt buckle or the like. 147,595; Sept. 30.
- Nalick, Albert, Los Angeles, Calif. Finger ring. 147,923; Nov. 18.
- Nass, Edward, Detroit, Mich. Wheeled vehicle toy. 148,086; Dec. 9.
- Natalie Lampshades Co., assignee: *See—*  
Rigolo, Arthur.
- National Fireworks, Inc., assignee: *See—*  
Hall, Elisabeth P.
- National Instrument Corporation, assignee: *See—*  
Robinson, Marshall M.
- National Manufacturing Corporation, assignee: *See—*  
Bach, Alfons.
- National Sanitary Supply Association, assignee: *See—*  
Kelly, Leo J.
- National Steel Fabric Company, assignee: *See—*  
Krutz, James C.
- Native Laces & Textiles, Incorporated, assignee: *See—*  
Friedman, Dave.
- Nehrenz, William L., assignor to David Traum Company, Incorporated, New York, N. Y. Display cabinet. 146,581; Apr. 8.
- Nelson, Charles D., Jr., Arlington, Va. Taxicab cruising lamp. 147,862; Nov. 11.
- Nelson, Norman E.: *See—*  
Altherr, Gilbert H., and Nelson.
- Nelson, Robert A., Sherman Oaks, Calif. Precision jeweler's vise. 147,564; Sept. 23.
- Nemeroff, Victor, Chicago, Ill. Bed lamp. 147,374; Aug. 26.
- Ness, Joseph, Rockford, assignor to Rite-Rite Mfg. Co., Downers Grove, Ill. Pencil sharpener. 147,863; Nov. 11.
- Ness, Joseph, Rockford, assignor to Rite-Rite Mfg. Co., Downers Grove, Ill. Pencil sharpener. 147,864; Nov. 11.
- Nettles, Henry A.: *See—*  
Williamson, Tollie L., and Nettles.
- Neville, Rey W.: *See—*  
Tomlinson, William A., and Neville.
- New, Eric T., assignor, by mesne assignments, to L. Stern, New York, N. Y. Razor blade strop. 148,181; Dec. 23.
- Newell, Arthur T., Huntington, assignor to Kenyon Instrument Co., Inc., Hunting Station, N. Y. Signal light. 146,807; May 20.
- Newman, Gilbert A., Lock Haven, Pa. Toy helicopter or similar article. 146,189; Jan. 7.
- Newman, Hilda, assignor to The Winston Sportswear Corporation, New York, N. Y. Blouse. 146,771; May 13.
- Newman, Hilda, assignor to The Winston Sportswear Corporation, New York, N. Y. Blouse. 146,772; May 13.
- Newman, Hilda, assignor to The Winston Sportswear Corporation, New York, N. Y. Blouse. 146,773; May 13.
- Nichols, Walter A., Cranston, R. I. Brooch. 148,182; Dec. 23.
- Nichols, Wendfrey C., assignor to Armour Research Foundation, Chicago, Ill. Magnetic recorder, or similar article. 146,373; Feb. 18.
- Nichols, Wendfrey C., assignor to Armour Research Foundation, Chicago, Ill. Magnetic recorder or similar article. 146,417; Feb. 25.
- Nichols, Wendfrey C., assignor to Armour Research Foundation, Chicago, Ill. Magnetic recorder or similar article. 146,675; Apr. 22.
- Nickstadt, Albert G., New York, N. Y., and A. H. Moeller, Pompton Lakes, N. J. Perfume testing strip holder. 146,265; Jan. 21.
- Nieboer, Hendrik A., London, England. Electric iron. 146,517; Mar. 25.
- Nieman, Lee L., Chicago, Ill. Work table. 147,806; Nov. 4.
- Nissen, Charles E.: *See—*  
Nissen, Shirley C., and C. E.
- Nissen, Margaret, administratrix: *See—*  
Nissen, Shirley C. and C. E.
- Nissen, Shirley C. and C. E., Maywood, N. J., M. Nissen administratrix of said C. Nissen, deceased, assignor to said S. C. Nissen. Earring holder. 147,059; July 8.
- Noble, Harriett E., San Francisco, Calif. Andiron. 147,924; Nov. 18.
- Noblitt-Sparks Industries, Incorporated: *See—*  
Karstadt, Clarence.
- Noll, Josef W., Philadelphia, Pa. Love seat or similar article. 146,981; June 24.
- Noma Electric Corporation, assignee: *See—*  
Bindman, Stanley.
- Larsen, Olaf F., Jr.
- Nordeng, Valborg A., Shelly, Minn. Brush or similar article. 147,140; July 15.
- Nor Jay Company, assignee: *See—*  
Sidell, Sidney J.
- North American Aviation, Inc., assignee: *See—*  
Henrichsen, Knut.
- Northeastern Plastics, Inc., assignee: *See—*  
Sandberg, Harry O.
- Nye Tool & Machine Co., assignee: *See—*  
Jones, Thomas R.



- Nylund, Otto A.: *See*—  
Pelka, Adolph, and Nylund.
- Oates, Theodore T., Lead, S. Dak. Plaque or similar article. 147,925; Nov. 18.
- O'Brien, Edward A., Truro, Nova Scotia, Canada. Safety shears. 147,416; Sept. 2.
- Obrig, Gordon E., Brooklyn, N. Y., assignor to Morgan Manufacturing Company, Inc. Vanity or similar article. 146,374; Feb. 18.
- Obrig, Gordon E., Brooklyn, N. Y., assignor to Morgan Manufacturing Company, Inc. Dresser or similar article. 146,375; Feb. 18.
- Obrig, Gordon E., Brooklyn, N. Y., assignor to Morgan Manufacturing Company, Inc. Dresser or similar article. 146,376; Feb. 18.
- Obrig, Gordon E., Brooklyn, N. Y., assignor to Morgan Manufacturing Company, Inc. Night table or similar article. 146,377; Feb. 18.
- Obrig, Gordon E., Brooklyn, N. Y., assignor to Morgan Manufacturing Company, Inc. Vanity table bench or similar article. 146,378; Feb. 18.
- Obrig, Gordon E., Brooklyn, N. Y., assignor to Morgan Manufacturing Company, Inc. Bed or similar article. 146,379; Feb. 18.
- O'Connell, Daniel C., New York, N. Y., assignor to Sterno, Inc. Buffet chafing dish. 146,832; May 27.
- Oedeker, Martin, Jr., assignee: *See*—  
Millhauser, Eugene K.
- Ogden Manufacturing Company, assignee: *See*—  
Stout, Thorne F.
- Ognibene, Paul J., Philadelphia, Pa. Card table tray. 147,596; Sept. 30.
- Ohio Thermometer Company, The, assignee: *See*—  
Wappner, Ralph C.
- Olivarez, John L., Los Angeles, assignor to Airquipment Company, Burbank, Calif. Portable passenger loading stand or similar article. 146,418; Feb. 25.
- Olsen, Clarence S., assignor to Chicago Printed String Co., Chicago, Ill. Spool display rack or similar article. 146,869; June 3.
- One Knatt Company, Inc., The, assignee: *See*—  
Arnold, Elmer K.
- Operadio Manufacturing Co., assignee: *See*—  
Larson, Robert H.
- Oppenheim, Austin N., assignor to Traub-Lyons-Oppenheim, Inc., New York, N. Y. Woven fabric. 147,198; July 22.
- Oppenheimer, Werner F., New York, N. Y. Tie clasp or the like. 146,231; Jan. 14.
- Ornot, Carl M. J., Charleroi, Pa. Combined cigarette container and ash tray. 146,450; Mar. 11.
- Oros, Joseph, Inkster, Mich. Combination kitchen unit. 147,141; July 15.
- Oshman, Joseph, New York, N. Y. Toy pistol. 147,375; Aug. 26.
- Otto, Ferdinand P., assignor to Quaker Lace Company, Philadelphia, Pa. Lace tablecloth. 146,582; Apr. 8.
- Otto, Ferdinand P., assignor to Quaker Lace Company, Philadelphia, Pa. Lace tablecloth. 146,583; Apr. 8.
- Oxford Engineering Corporation, assignee: *See*—  
Gans, Robert S.
- Pacer, Inc., assignee: *See*—  
Simon, Albert, and Rellinger.
- Pachner & Koller, Inc., assignee: *See*—  
Adams, Louis D., and Poplin.
- Packales, Sidney, Great Neck, N. Y. Aiglet brooch. 147,926; Nov. 18.
- Packales, Sidney, New York, N. Y. Combined bracelet and cosmetic containers. 148,183; Dec. 23.
- Packard Motor Car Company, assignee: *See*—  
Wright, Philip O.
- Paden, Frederick T., U. S. Army, Collingswood, N. J. Smoking stand. 147,293; Aug. 12.
- Page, Herbert E., Dayton, Ohio. Dry shaver. 147,807; Nov. 4.
- Palma, Joseph, Jr., assignor to G-M Laboratories, Inc., Chicago, Ill. Electric heater. 147,417; Sept. 2.
- Palmer, William C., Clinton, N. Y. Textile fabric. 146,615; Apr. 15.
- Palmer, William C., Clinton, N. Y. Textile fabric. 146,676; Apr. 22.
- Palmer, William C., Clinton, N. Y. Textile fabric. 146,677; Apr. 22.
- Panik, Joseph J., Detroit, Mich., assignor to Banner Products Company, Milwaukee, Wis. Resistance welding machine. 147,348; Aug. 19.
- Paramount Industries, Inc., assignee: *See*—  
Harris, Harry.
- Paraphone Hearing Aid, Inc., assignee: *See*—  
Tresise, Raleigh E., and Kendall.
- Parfum L'Orle, Inc., assignee: *See*—  
Levy, Abraham.
- Parisi, Charles T., Pawtucket, R. I. Pin. 147,060; July 8.
- Parisi, Charles T., Pawtucket, R. I. Bracelet. 147,061; July 8.
- Parisi, Charles T., Pawtucket, R. I. Bracelet. 147,062; July 8.
- Park, Dovie L., Los Angeles, Calif. Dish. 146,266; Jan. 21.
- Parker, Glenn S., Denver, Colo. Lawn sprinkler. 148,035; Dec. 2.
- Parker Pen Company, The, assignee: *See*—  
Moholy-Nagy, Laszlo.
- Parker, Ralph A., Melrose, Mass. Man's sport shoe or similar article. 146,774; May 13.
- Paschman, Morris, New York, N. Y. Pin or similar article. 146,870; June 3.
- Paschman, Morris, New York, N. Y. Pin or similar article. 146,871; June 3.
- Paschman, Morris, New York, N. Y. Pin or similar article. 147,142; July 15.
- Patalano, Frank P.: *See*—  
Sills, Philip, and Patalano.
- Patent License Corporation, assignee: *See*—  
Arenberg, Albert L.
- Patterson, Guy W., Los Angeles, Calif. Combination trailer and boat or similar article. 146,232; Jan. 14.
- Patti, Fred D., Chicago, Ill. Knife or similar article. 147,349; Aug. 19.
- Paulson, Henry, and Company, assignee: *See*—  
While, Roy R.
- Pearsall, Frederick J., Clayville, assignor to Imperial Pearl Co., Inc., Providence, R. I. Lapel pin. 146,678; Apr. 22.
- Pearsall, Frederick J., Clayville, assignor to Imperial Pearl Co., Inc., Providence, R. I. Lapel pin. 146,679; Apr. 22.
- Pearsall, Frederick J., Clayville, assignor to Imperial Pearl Co., Inc., Providence, R. I. Lapel pin. 146,775; May 13.
- Pearsall, Frederick J., Clayville, assignor to Imperial Pearl Co., Inc., Providence, R. I. Lapel Pin. 146,776; May 13.
- Pearsall, Frederick J., Clayville, assignor to Imperial Pearl Co., Inc., Providence, R. I. Lapel pin. 146,679; Oct. 14.
- Pearsall, Frederick J., Clayville, assignor to Imperial Pearl Co., Inc., Providence, R. I. Lapel pin. 147,680; Oct. 14.
- Pearsall, Frederick J., Clayville, assignor to Imperial Pearl Co., Inc., Providence, R. I. Lapel pin. 147,681; Oct. 14.
- Pearsall, Frederick J., Clayville, assignor to Imperial Pearl Co., Inc., Providence, R. I. Lapel pin. 147,682; Oct. 14.
- Pearsall, Frederick J., Clayville, assignor to Imperial Pearl Co., Inc., Providence, R. I. Lapel pin. 147,683; Oct. 14.
- Pearson, Joseph T., Jr., Huntingdon Valley, Pa. Shoe shine box. 147,063; July 8.
- Peck, Roger Q., Hawthorne, Calif. Lamp base. 147,143; July 15.
- Peck, Roger Q., Hawthorne, Calif. Lamp base. 147,144; July 15.
- Peck, Roger Q., Hawthorne, Calif. Lamp base. 147,927; Nov. 18.
- Peirce, Waldo, Pomona, N. Y. Textile fabric. 146,616; Apr. 15.
- Peirce, Waldo, Pomona, N. Y. Textile fabric. 146,617; Apr. 15.
- Peirce, Waldo, Pomona, N. Y. Textile fabric. 146,618; Apr. 15.
- Peirce, Waldo, Pomona, N. Y. Textile fabric. 146,680; Apr. 22.
- Peirce, Waldo, Pomona, N. Y. Textile fabric. 146,681; Apr. 22.
- Peirce, Waldo, Pomona, N. Y. Textile fabric. 147,808; Nov. 4.
- Pelka, Adolph, Los Angeles, and O. A. Nylund, Tujunga, Calif. Combination fish scaling and cutting tool. 146,614; Apr. 15.
- Pennino, Oreste, Jamaica, N. Y. Pin or similar article. 147,762; Oct. 28.
- Perrin, Paul C., assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Salt tablet dispenser. 147,809; Nov. 4.
- Persons, Ernest L., Meriden, Conn., assignor of one-half to E. J. Martineau, Holyoke, Mass. Ash tray or similar article. 147,145; July 15.
- Persons, Ernest L., Meriden, Conn., assignor of one-half to E. J. Martineau, Holyoke, Mass. Ash tray or similar article. 147,146; July 15.
- Persons, Ernest L., Meriden, Conn., assignor of one-half to E. J. Martineau, Holyoke, Mass. Tie rack or similar article. 147,418; Sept. 2.
- Pessel, Jacob L., New York, N. Y., and Frank Slug, Pater-son, N. J. Link chain for a bracelet or similar article. 147,987; Nov. 25.
- Petersen, Carl A., Wilmette, assignor to The Pure Oil Company, Chicago, Ill. Automobile service station. 147,468; Sept. 9.
- Petersen, Carl A., Wilmette, assignor to The Pure Oil Company, Chicago, Ill. Automobile service station. 147,469; Sept. 9.
- Petersen, Carl A., Wilmette, assignor to The Pure Oil Company, Chicago, Ill. Automobile service station. 147,470; Sept. 9.
- Peterson, Albin K., Redondo Beach, Calif. Aerodynamic tire. 146,486; Mar. 18.
- Peterson, Albin K., Redondo Beach, assignor to Longren Aircraft Company, Torrance, Calif. Hand cart. 146,419; Feb. 25.
- Peterson, Clyde A., Lewisburg, Pa., assignor to Westing-house Electric Corporation. Combination record player and radio. 148,184; Dec. 23.
- Peterson, James E., Los Angeles, Calif. Cork puller. 146,833; May 27.
- Pfeiffer, Arthur E., Worcester, Mass. Slipper. 147,294; Aug. 12.



- Pfeffer, Arthur E., Worcester, Mass. Felt boot. 147,506; Sept. 16.
- Phelps, George, assignor to Communication Equipment and Engineering Company, Chicago, Ill. Housing for a loud-speaker and coin actuated mechanism. 147,684; Oct. 14.
- Philco Corporation, assignee: *See—*  
Dalley, Donald E.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or similar article. 146,380; Feb. 18.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Pin clip or similar article. 146,381; Feb. 18.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace. 146,584; Apr. 8.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or similar article. 146,925; June 10.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,049; July 8.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring. 147,064; July 8.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring. 147,065; July 8.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,066; July 8.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,067; July 8.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,068; July 8.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,069; July 8.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,070; July 8.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,071; July 8.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,072; July 8.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,073; July 8.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,074; July 8.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring. 147,075; July 8.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring. 147,076; July 8.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,077; July 8.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,078; July 8.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,080; July 8.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,147; July 15.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,148; July 15.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring. 147,199; July 22.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring. 147,200; July 22.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,201; July 22.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,202; July 22.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,203; July 22.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,204; July 22.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,205; July 22.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,206; July 22.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace. 147,295; Aug. 12.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,296; Aug. 12.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring. 147,297; Aug. 12.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Bracelet. 147,298; Aug. 12.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,299; Aug. 12.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,376; Aug. 26.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Bracelet or similar article. 147,763; Oct. 28.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or similar article. 147,810; Nov. 4.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Bracelet or similar article. 147,811; Nov. 4.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,865; Nov. 11.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 147,866; Nov. 11.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 148,087; Dec. 9.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 148,088; Dec. 9.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Pin clip or similar article. 148,185; Dec. 23.
- Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or similar article. 148,186; Dec. 23.
- Phillips, Grayden W., San Jose, Calif. Figurine or the like. 146,777; May 13.
- Phillips, Leonard R., Teaneck, N. J., assignor to Anemostat Corporation of America, New York, N. Y. Combined luggage rack and light fixture. 146,982; June 24.
- Phillips, Leonard R., Teaneck, N. J., assignor to Anemostat Corporation of America, New York, N. Y. Combined luggage rack and light fixture. 146,983; June 24.
- Phillips, Oliver V., Denver, Colo. Aircraft instrument. 147,471; Sept. 9.
- Piasecki, Frank N., Lansdowne, Pa., assignor to Piasecki Helicopter Corporation. Helicopter. 146,984; June 24.
- Piasecki Helicopter Corporation, assignee: *See—*  
Piasecki, Frank N.
- Picker, Earl N., Overland, assignor to Day-Brite Lighting, Inc., St. Louis, Mo. Fluorescent lighting fixture. 147,812; Nov. 4.
- Pielens, Eduard O., Chicago, Ill. Shoe. 146,432; Mar. 4.
- Pierce, Dorothy M., New York, N. Y. Stuffed toy elephant. 147,988; Nov. 25.
- Piper Aircraft Corporation, assignee: *See—*  
Jamouneau, Walter C.
- Plastic Art Toy Corporation of America, assignee: *See—*  
Brunetti, Joseph.
- Plastic Arts Manufacturers, assignee, et al.: *See—*  
Rudnitzky, Nathan.
- Plastispec Incorporated, assignee: *See—*  
Myers, Reuben.
- Plasto Manufacturing Company, assignee: *See—*  
Torrey, Fred M.
- Plate, Robert T., Detroit, Mich. Activated toy bird figure. 146,744; May 6.
- Platt, Joseph B., New York, N. Y., assignor to Stephen F. Whitman & Son, Inc., Philadelphia, Pa. Showcase. 146,926; June 10.
- Platt, Sam, Brooklyn, N. Y. Belt. 147,928; Nov. 18.
- Plomb Tool Company, The, assignee: *See—*  
Daniels, Elmer H.
- Polivka, John N., Minneapolis, Minn., and F. Collura, New York, N. Y., assignor to General Mills, Inc. Handle for electric iron. 146,433; Mar. 4.
- Pomerantz, Herman, New York, N. Y. Belt buckle. 147,419; Sept. 2.
- Pomerantz, Herman, New York, N. Y. Brooch or similar article. 147,420; Sept. 2.
- Popick, Orion, Freeland, Pa. Clothespin. 147,597; Sept. 30.
- Poplin, Nelia G.: *See—*  
Adams, Louis D., and Poplin.
- Porto-Products, Inc., assignee: *See—*  
Bernstein, Leo.
- Potter, Linn E., Fayetteville, N. Y. Woodworking lathe. 147,300; Aug. 12.
- Powell, Henry B.: *See—*  
Roberts, William C., and Powell.
- Powell, Willie G., Fort Worth, Tex. Game board. 146,339; Feb. 11.
- Prager, Leo, assignee: *See—*  
Gray, Charles S.
- Prebils, Walter T., Chicago, Ill. Fire place mantel. 147,081; July 8.



- Preble, Harry S., Jr., New York, N. Y., assignor to The A. C. Gilbert Company, New Haven, Conn. Encased power unit of an electric appliance or the like. 147,207; July 22.
- Precision Specialties, Inc., assignee: *See*—Rabinowitch, Joseph.
- Prem, Helen E., New York, assignor to Columbian Rope Company, Auburn, N. Y. Table. 147,507; Sept. 16.
- Premier Crystal Laboratories, Incorporated, assignee: *See*—Shapiro, Lazarus C., and Flynn.
- Premo, Owen D., Muskegon Heights, Mich. Drafting instrument. 147,565; Sept. 23.
- Presto Electric Co., assignee: *See*—Abramson, Nathan.
- Pretzer, Bert C., St. Clair Shores, and F. H. Clingan, Detroit, Mich. Lighting fixture. 147,813; Nov. 4.
- Pretzer, Bert C., St. Clair Shores, and F. H. Clingan, Detroit, Mich. Lighting fixture. 148,251; Dec. 30.
- Price Industries Corporation, assignee: *See*—Carpenter, John R.
- Price, James R., Cranston, assignor to Gorham Manufacturing Company, Providence, R. I. Fork or other article of flatware. 146,315; Feb. 4.
- Price, James R., Cranston, assignor to Gorham Manufacturing Company, Providence, R. I. Fork or other article of flatware. 146,985; June 24.
- Price, Jeanne, and T. Hee, Van Nuys, Calif. Doll. 147,082; July 8.
- Price, Jeanne, and T. Hee, Van Nuys, Calif. Doll. 147,083; July 8.
- Prinz, Edward, St. Paul, Minn. Combined fruit juicer and grater head. 146,382; Feb. 18.
- Productive Inventions, Inc., assignee: *See*—Krohm, Fred A.
- Smulski, Theodore J.
- Prouty, Willis O., Puente, assignor to Metlox Manufacturing Company, Manhattan Beach, Calif. Plate or similar article. 146,585; Apr. 8.
- Provol, George J., Winnetka, Ill. Toy goose. 146,834; May 27.
- Pruett, Floyd W., Salem, Oreg., and P. N. Jewell, Beulah, Mich. Bracelet. 148,114; Dec. 16.
- Pugh, Merlin L., Minneapolis, Minn. Battery charger or similar article. 147,814; Nov. 4.
- Pullman Company, The, assignee: *See*—Jones, Basil E.
- Pullman-Standard Car Manufacturing Company, assignee: *See*—Kay, Stanley W.
- Punton, Charles W.: *See*—Maynard, Harold B., and Punton.
- Purcell, Jeanne T., Bern Township, Berks County, Pa. Candle and flower holder. 146,986; June 24.
- Pure Oil Company, The, assignee: *See*—Petersen, Carl A.
- Quaker Lace Company, assignee: *See*—Hooven, Howard.
- Otto, Ferdinand P.
- Quality Appliances, Inc., assignee: *See*—Snyder, Leland H.
- Snyder, Leland H., and Yost.
- Quigley, Hayes A., Akron, Ohio. Ash tray. 146,267; Jan. 21.
- Rabinowitch, Joseph, assignor, by mesne assignments, to Precision Specialties, Inc., Los Angeles, Calif. Combination flashlight, cosmetic case, and cigarette case. 146,619; Apr. 15.
- Radio Corporation of America, assignee: *See*—Del Valle, Guillermo A.
- Radio & Television, Inc., assignee: *See*—Weisburgh, Herbert L.
- Radioplane Company, assignee: *See*—McGaffey, Neill F.
- Raffman, Edwin M., Jr., Wichita, Kans. Infants' step device. 147,350; Aug. 19.
- Ramsthal, Alfred F., assignor to West Bend Aluminum Company, West Bend, Wis. Handle for cooking vessels and the like. 146,518; Mar. 25.
- Ramsthal, Alfred F., assignor to West Bend Aluminum Company, West Bend, Wis. Platter or similar article. 146,519; Mar. 25.
- Ramsthal, Alfred F., assignor to West Bend Aluminum Company, West Bend, Wis. Sauce pan or similar article. 146,520; Mar. 25.
- Ramsthal, Alfred F., assignor to West Bend Aluminum Company, West Bend, Wis. Handle for platters and the like. 146,927; June 10.
- Ranch House, The, assignee: *See*—Jackson, Edwin H.
- Ranger-Tennere, Inc., assignee: *See*—Bureau, Achille G.
- Raphaels, Edwin, assignor to N. Wishbow & Raphaels, Inc., New York, N. Y. Textile fabric. 146,745; May 6.
- Raphaels, Edwin, assignor to N. Wishbow & Raphaels, Inc., New York, N. Y. Textile fabric. 146,746; May 6.
- Rapoport, Arthur M., New York, N. Y. Pencil sharpener. 147,867; Nov. 11.
- Rapp, Melville B., Miami Beach, Fla. Font of type. 146,420; Feb. 25.
- Rapp, Melville B., Miami Beach, Fla. Font of type. 146,421; Feb. 25.
- Ratajack, Jean, assignee: *See*—Stacey, Ted R., and Lesner.
- Rausch, Bernard A.: *See*—Rausch, Opal and B. A.
- Rausch, Martin J., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Handle for a valve or the like. 148,252; Dec. 30.
- Rausch, Opal and B. A., Denver, Colo. Embroidery floss holder. 146,233; Jan. 14.
- Ray, Joseph L., Darien, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing machine cabinet. 146,383; Feb. 18.
- Raybert Products Corp., assignee: *See*—Ray-Dupuis, Suzanne.
- Ray-Dupuis, Suzanne, assignor to Raybert Products Corp., New York, N. Y. Bracelet. 148,089; Dec. 9.
- Reconstruction Finance Corporation, assignee: *See*—Doblin, Jay B.
- Thomson, Ernest F.
- Rector, Edward W., Melrose Park, Ill. Cigar and cigarette lighter. 146,872; June 3.
- Reed, Jimmie H., Detroit, Mich. Motorized scooter. 147,472; Sept. 9.
- Reel, Hubert, Brooklyn, N. Y. Pile driver toy. 146,268; Jan. 21.
- Reeves-Ely Laboratories, Inc., assignee: *See*—Florian, Gordon W.
- Regelmann, Fritz E.: *See*—Regelmann, William and F. E.
- Regelmann, William and F. E., Cranston, R. I. Expandible bracelet. 147,989; Nov. 25.
- Reggie, Christy, Waynesville, N. C. Shoe. 146,521; Mar. 25.
- Reich, Ludovico, Buenos Aires, Argentina, assignor to J. J. Fischer, New York, N. Y. Handbag. 148,253; Dec. 30.
- Reid, Patricia, Chicago, Ill. Liquid container or similar article. 146,288; Jan. 28.
- Reikosky, Max, Trenton, N. J. Combined ash tray and figure. 148,090; Dec. 9.
- Reimer, Virgil P., Pasadena, Calif. Lipstick holder. 147,685; Oct. 14.
- Reinecke, Jean O., Oak Park, assignor to Bell & Howell Company, Chicago, Ill. Projection lamp housing. 146,620; Apr. 15.
- Reinecke, Jean O., Oak Park, Ill., assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa. Lamp. 146,987; June 24.
- Reinecke, Jean O., Oak Park, assignor to The Griffith Laboratories, Inc., Chicago, Ill. Display rack. 147,084; July 8.
- Reinecke, Jean O., Oak Park, Ill., assignor to A. A. Sheaffer Pen Company, Fort Madison, Iowa. Box for leads or the like. 147,868; Nov. 11.
- Reinecke, Jean O., Oak Park, assignor to Bell & Howell Company, Chicago, Ill. Base for a motion picture projector or the like. 148,091; Dec. 9.
- Rellinger, Lawrence: *See*—Simon, Albert, and Rellinger.
- Remington Rand Inc., assignee: *See*—Streng, Jan.
- Renaud, Harold E., Lansing, Mich. Chair. 148,187; Dec. 23.
- Repp, Franklin J., and H. P. Yeager, Milwaukee, and L. B. Robbin, and L. B. Robbin, Jr., Eagle, Wis. Coconut and vegetable grater. 147,566; Sept. 23.
- Republic Aviation Corporation, assignee: *See*—Dorrier, Philip G.
- Reisinger, Paul M., Chicago, Ill. Merchandise showcase or the like. 146,522; Mar. 25.
- Restifo, Gaetano, Jackson Heights, N. Y. Box or similar article. 146,808; May 20.
- Reynolds, Harry R., and I. Montana, Brooklyn, N. Y. Whirligig toy. 147,301; Aug. 12.
- Reynolds, Lauren R., Joplin, Mo. Stove. 146,523; Mar. 25.
- Reynolds Metals Company, assignee: *See*—Money, Roland H., and Ferar.
- Sundberg, Carl W.
- Wemyss, Robert B.
- Reynolds, Victor S., assignor to J. E. Gould, Detroit, Mich. Cigarette dispenser. 146,422; Feb. 25.
- Reynolds, William E., Oak Ridge, Tenn. Table. 147,990; Nov. 25.
- Rice, Charles T., Roswell, N. Mex. Building. 147,085; July 8.
- Richardson, Rodney G., Delavan, Wis., assignor to The George W. Borg Corporation, Chicago, Ill. Clock or similar article. 147,302; Aug. 12.
- Richmond, Solomon S., Malden, assignor to Beacon Products Corporation, Boston, Mass. Font of type. 147,686; Oct. 14.
- Richter Metalcraft Corp., assignee: *See*—Richter, Oscar.
- Richter, Oscar, New Rochelle, assignor to Richter Metalcraft Corp., Mount Vernon, N. Y. Lighting fixture. 147,598; Sept. 30.
- Rideout, John G., Chagrin Falls, Ohio. Refrigerated display case. 147,622; Oct. 7.
- Rien, Otto F., assignee: *See*—Jaeger, Erich.
- Rifkin, Milton, assignor to Frez-O-Mat Sales Corporation, Chicago, Ill. Frozen food cabinet. 147,149; July 15.
- Rigolo, Arthur, Clifton, assignor to Natalie Lampshades Co., Paterson, N. J. Lamp shade or similar article. 146,873; June 3.



- Riolo, Salvatore, assignee, et al.: *See—*  
Gallo, Frederick.
- Rite-Rite Mfg. Co., assignee: *See—*  
Ness, Joseph.
- Robbin, Louis B.: *See—*  
Repp, Franklin J., Yeager, Robbin, and Robbin, Jr.
- Robbin, Louis B., Jr.: *See—*  
Repp, Franklin J., Yeager, Robbin, and Robbin, Jr.
- Robbins, Celia, New York, N. Y. Finger ring or similar article. 146,524; Mar. 25.
- Robert, Herbert F., Malden, Mass. Portable bar. 148,188; Dec. 23.
- Roberts, Jerome C., New York, N. Y. Two-piece hair ornament. 146,316; Feb. 4.
- Roberts, Jerome C., New York, N. Y. Two-piece hair ornament. 146,317; Feb. 4.
- Roberts, James B., Los Angeles, Calif. Deck of cards. 147,815; Nov. 4.
- Roberts, William C., Chattanooga, and H. B. Powell, McMinnville, Tenn. Chair or similar article. 147,150; July 15.
- Robertson, Daniel, assignor to Universal Cooler Company of Canada, Ltd., Brantford, Ontario, Canada. Frozen food display cabinet. 147,086; July 8.
- Robertson, James P.: *See—*  
Free, Henry T., Robertson, and Merz.
- Robinson, Louis W., Kansas City, Mo. Bed lamp. 148,036; Dec. 2.
- Robinson, Marshall M., assignor to National Instrument Corporation, Houston, Tex. Photographic spotlight. 146,809; May 20.
- Rockola, David C., assignor, by mesne assignments, to Rock-Ola Manufacturing Corporation, Chicago, Ill. Cabinet for sound reproducing apparatus. 146,682; Apr. 22.
- Rockola, David C., assignor, by mesne assignments, to Rock-Ola Manufacturing Corporation, Chicago, Ill. Phonograph cabinet. 146,874; June 3.
- Rock-Ola Manufacturing Corporation, assignee: *See—*  
Rockola, David C.
- Rockwell, Henry D., Detroit, Mich. Velocipede. 147,508; Sept. 16.
- Roeder, Harold, Milton, Mass. Roof light for motor vehicles. 146,683; Apr. 22.
- Roemisch, Harry S., Brecksville, Ohio. Fly swatter blade. 146,747; May 6.
- Rohner, Ludwig G., New York, N. Y. Tablecloth or similar article. 146,586; Apr. 8.
- Rohner, Ludwig G., New York, N. Y. Tablecloth or similar article. 146,587; Apr. 8.
- Rohner, Ludwig G., New York, N. Y. Tablecloth or similar article. 146,588; Apr. 8.
- Rohr, Peter J., assignor to Susquehanna Mills, Inc., New York, N. Y. Fabric. 146,318; Feb. 4.
- Rohr, Peter J., assignor to Susquehanna Mills, Inc., New York, N. Y. Fabric. 146,319; Feb. 4.
- Rohr, Peter J., assignor to Susquehanna Mills, Inc., New York, N. Y. Fabric. 146,320; Feb. 4.
- Rohr, Peter J., assignor to Susquehanna Mills, Inc., New York, N. Y. Fabric. 146,321; Feb. 4.
- Rommel, Philip Y., and J. A. French, Newark, N. J. Ash tray. 148,189; Dec. 23.
- Ronson Art Metal Works, Inc., assignee: *See—*  
Kaupmann, Frederick.
- Rooke, Charles H., Rochester, N. Y. Fish lure. 148,254; Dec. 30.
- Roselle, Richard D., assignor to Transcontinental & Western Air, Inc., Kansas City, Mo. Timetable. 147,017; July 1.
- Rosenbaum, Harry, Denver, Colo. Scarf or similar article. 146,190; Jan. 7.
- Rosenbaum, Harry, Denver, Colo. Scarf or similar article. 146,191; Jan. 7.
- Rosenberg, Joseph, New York, N. Y., and F. D. Byrne, West Orange, N. J. Bracelet or similar article. 147,018; July 1.
- Rosenbloom, Irving, New York, N. Y. Toy breakfront or similar article. 147,019; July 1.
- Rosenfeld, Harry, Inc., assignee: *See—*  
Hiltensbrand, Frank X.
- Rosenthal, Doris, Norwalk, Conn. Textile fabric. 146,621; Apr. 15.
- Rosenthal, Doris, Norwalk, Conn. Textile fabric. 146,622; Apr. 15.
- Rosenthal, Doris, Norwalk, Conn. Textile fabric. 147,303; Aug. 12.
- Rosenthal, Michel C., New York, N. Y. Radio cabinet. 147,473; Sept. 9.
- Ross, Walter C., Belleville, Ill. Table. 146,684; Apr. 22.
- Rossi, Paul, Warren, Ohio. Combination pen rack and desk unit. 146,875; June 3.
- Rossi, Paul, Warren, Ohio. Combination pen rack and desk unit. 146,876; June 3.
- Rost, Kathryn, New York, N. Y. Dress. 146,877; June 3.
- Rost, Kathryn, New York, N. Y. Dress. 147,020; July 1.
- Rost, Kathryn, New York, N. Y. Dress. 147,869; Nov. 11.
- Roth, Andrew, assignor to Bunting Glider Company, Philadelphia, Pa. Chaise longue. 147,377; Aug. 26.
- Rothchild, Lionel, assignee: *See—*  
Lewis, Benjamin.
- Rothert, Florence P., Inglewood, Calif. Refrigerator. 147,252; Aug. 5.
- Roths, Herbert C., Alpena, Mich. Tractor. 146,947; June 17.
- Rouillard, René, Landrienne, Quebec, Canada. Wall cabinet unit. 148,092; Dec. 9.
- Rouse, Calvin, Jamaica, N. Y. Toy bird. 147,378; Aug. 26.
- Roxy Manufacturing Company, assignee: *See—*  
Batko, Emanuel T.
- Roy, Albert E., Burbank, Calif. Citrus fruit peeler. 147,687; Oct. 14.
- Royal Corporation, The, assignee: *See—*  
Dibble, Robert F.
- Rubel, John, New York, N. Y. Bowl or similar article. 146,810; May 20.
- Rubenstein, Albert, Washington, D. C. Toy boat. 148,037; Dec. 2.
- Rubin, Herbert, New York, N. Y. Lamp. 146,685; Apr. 22.
- Rubin, Herbert, New York, N. Y. Lamp. 146,686; Apr. 22.
- Ruchman, Samuel, New York, N. Y. Dress. 146,988; June 24.
- Ruchman, Samuel, New York, N. Y. Dress. 147,021; July 1.
- Ruchman, Samuel, New York, N. Y. Dress. 147,022; July 1.
- Ruchman, Samuel, New York, N. Y. Dress. 147,023; July 1.
- Rudnitzky, Nathan, Brooklyn, assignor to N. Rudnitzky, J. Silbering, and J. Sonners, doing business as Plastic Arts Manufacturers, New York, N. Y. Lamp. 147,929; Nov. 18.
- Russell, William J., Newington, assignor to Landers, Frary & Clark, New Britain, Conn. Pressure cooker. 146,234; Jan. 14.
- Russell, William J., Newington, assignor to Landers, Frary & Clark, New Britain, Conn. Pressure cooker. 146,235; Jan. 14.
- Russell, William J., Newington, assignor to Landers, Frary & Clark, New Britain, Conn. Electric flatiron. 146,384; Feb. 18.
- Russell, William J., Newington, assignor to Landers, Frary & Clark, New Britain, Conn. Electric flatiron. 146,748; May 6.
- Russo, William L., Long Beach, and F. McLaughlin, New York, N. Y. Combined cigarette rest and match holder. 147,816; Nov. 4.
- Russo, William L., Long Beach, N. Y. Ash tray. 147,870; Nov. 11.
- Rust, Henry W., assignee, et al.: *See—*  
Keller, Clarence H.
- Rutan, Earl F.: *See—*  
Stone, Robert L., and Rutan.
- Rutenber, Edwin A.: *See—*  
Wilson, Lawrence H., and Rutenber.
- Ryan, John E., Danbury, Conn. Shoe sole. 146,724; Apr. 29.
- Sabelis, William, South Gate, Calif. Plaque. 148,093; Dec. 9.
- Sachs, Roger E., assignor to Koret of California, Inc., San Francisco, Calif. Wrapping paper or the like. 146,192; Jan. 7.
- Saftlas, Samuel, Newark, N. J. Knitted lace fabric. 147,735; Oct. 21.
- Sager, Jacob L., Smithton, Pa. Covered pitcher. 147,304; Aug. 12.
- Sahley, Lloyd, Cleveland, Ohio. Soap dish. 147,221; July 29.
- St. Louis, R. J., assignee: *See—*  
Frazier, Orville Z.
- St. Louis Shipbuilding & Steel Co., assignee: *See—*  
McMichael, Joseph D., Jr.
- Salem, Victor, Kew Gardens, N. Y. Identification plate for an automobile or similar article. 147,871; Nov. 11.
- Salisbury, Frank M., assignor to Frontier Aircraft Corp., Kenmore, N. Y. Seaplane float. 148,255; Dec. 30.
- Saltz, Frank H., La Crosse, Wis. Card file. 146,948; June 17.
- Saltz, Frank H., La Crosse, Wis. Card file. 146,949; June 17.
- Salz Bros. Inc., assignee: *See—*  
Green, Warren, and Schladermundt.
- Sampselle, Willis W., Memphis, Tenn. Tank truck. 147,817; Nov. 4.
- Sandberg, Harry O., assignor to Northeastern Plastics, Inc., Boston, Mass. Penholder or similar article. 146,434; Mar. 4.
- Sanders, Henry: *See—*  
Gordon, Eli, and Sanders.
- Sanders, Louise, Hoboken, N. J., assignor to Consolidated Molded Products Corporation, Scranton, Pa. Clothes hanger. 146,623; Apr. 15.
- Sanders, Sanford E. A., Los Angeles, Calif., assignor to Sta-Neet Corporation. Hair cutting comb. 146,989; June 24.
- Sandler, Jacob, New York, N. Y. Shoe. 147,379; Aug. 26.
- Sandler, Jacob, New York, N. Y. Shoe. 147,380; Aug. 26.
- Sandler, Jacob, New York, N. Y. Shoe. 147,381; Aug. 26.
- Sandler, Jacob, New York, N. Y. Shoe. 148,115; Dec. 16.
- Saum, Floyd S., Denver, Colo. Building. 147,382; Aug. 26.
- Saunders, Arthur E.: *See—*  
Carter, Jess W., and Saunders.
- Sawyer, Freeman, Au Sable Forks, N. Y. Game board. 147,421; Sept. 2.



- Schaefer, Oscar C., Racine, Wis. Fishing lure. 146,451; Mar. 11.
- Schaub, Gordon A., Freeland, assignor to R. D. Kitzmiller, Swarthmore, Pa. Stroller. 146,811; May 20.
- Schechtel, Harry, Los Angeles, Calif. Vegetable grater. 147,688; Oct. 14.
- Scheemaeker, Emile, Blackstone, Mass. Bottle. 146,525; Mar. 25.
- Scheurmann, Otto A., Bayside, N. Y. Orphrey or similar article. 147,351; Aug. 19.
- Scheurmann, Otto A., Bayside, N. Y. Orphrey or similar article. 147,352; Aug. 19.
- Scheurmann, Otto A., Bayside, N. Y. Orphrey or similar article. 147,353; Aug. 19.
- Schinske, William G., assignor, by mesne assignments, to Ideal Industries, Inc., Sycamore, Ill. Battery charger. 147,151; July 15.
- Schladermundt, Peter: *See*—  
Green, Warren, and Schladermundt.
- Schlenker, Max E., Peru, Ill., assignor to General Time Instruments Corporation, New York, N. Y. Clock. 146,322; Feb. 4.
- Schlosberg, Harold, New York, N. Y. Handbag frame or similar article. 147,474; Sept. 9.
- Schmidt, Herbert D., Little Falls, N. J., assignor to Emlee Sales Corp., New York, N. Y. Camera. 147,991; Nov. 25.
- Schmidt, Samuel S., York, assignor to Grey Iron Casting Company, Mount Joy, Pa. Tray or similar article. 146,687; Apr. 22.
- Schmitz, Val A., Manhasset, assignor to The F. & M. Schaefer Brewing Co., Brooklyn, N. Y. Holder for beer foam scrapers or similar article. 146,725; Apr. 29.
- Schmutz, André, La Chaux-de-Fonds, Switzerland. Atomizer. 147,872; Nov. 11.
- Schmutz, André, La Chaux-de-fonds, Switzerland. Atomizer. 148,038; Dec. 2.
- Schnefel Bros. Corporation, assignee: *See*—  
Gardiner, Carl W.
- Schneider, Rudolph G., Houston, Tex. Combination chair and table or like article. 147,873; Nov. 11.
- Schober, Ray A., assignee: *See*—  
Klingberg, Arthur F.
- Schory, Kenneth P., Chicago, Ill., assignor to American Gas Machine Company, Albert Lea, Minn. Space heater. 146,749; May 6.
- Schott, Bette C., New York, N. Y. Fabric or the like. 146,452; Mar. 11.
- Schott, Bette C., New York, N. Y. Fabric or the like. 146,453; Mar. 11.
- Schraig, James V., Central Valley, N. Y. Lamp globe. 146,878; June 3.
- Schrayssshuen, Carl, Providence, R. I. Jewelry finding. 146,778; May 13.
- Schrayssshuen, Carl, Providence, R. I. Jewelry finding. 147,422; Sept. 2.
- Schrayssshuen, Carl, Providence, R. I. Bracelet link or similar article. 147,509; Sept. 16.
- Schrayssshuen, Carl, Providence, R. I. Earring. 147,510; Sept. 16.
- Schrayssshuen, Carl, Providence, R. I. Jewelry finding. 147,511; Sept. 16.
- Schrayssshuen, Carl, Providence, R. I. Pendant or similar article. 147,992; Nov. 25.
- Schrayssshuen, Carl, Providence, R. I. Pendant or similar article. 147,993; Nov. 25.
- Schrem, William, Elkins Park, assignor to Soabar Company, Philadelphia, Pa. Pin ticketing machine. 148,190; Dec. 23.
- Schreyer, Edward P., Ridgefield, Conn. Perfume container or the like. 146,928; June 10.
- Schueder, George, Dearborn, Mich., and W. D. Teague, New York, N. Y., assignors to Evans Products Company, Detroit, Mich. Heating apparatus. 146,726; Apr. 29.
- Schwan, August R., and J. P. Clymer, Lancaster, Pa. Smoking pipe or similar article. 147,689; Oct. 14.
- Schwartz, Frederick, Chicago, Ill., assignor to Foster & Davies, Inc., Cleveland, Ohio. Diffusion disk for lamps. 147,567; Sept. 23.
- Schwartz, John L., Philadelphia, Pa. Hygrometer or the like. 148,094; Dec. 9.
- Schwartz, Morris, Sunnyside, N. Y. Frame for eyeglasses. 147,475; Sept. 9.
- Scott Aviation Corporation, assignee: *See*—  
Benzel, Howard A.  
Vevirit, James V.  
Young, Theodore F.
- Scott, Dorris M.: *See*—  
Steinberg, Evelyn B., and Scott.
- Scott, Thomas, Glasgow, Scotland. Glass bottle. 146,435; Mar. 4.
- Scully Signal Company, assignee: *See*—  
Goddard, Carl A.
- Seamless Rubber Company, The, assignee: *See*—  
Manville, Charles T., and Madsen.
- Sears, Roebuck and Co., assignee: *See*—  
Cosme, Peter A.  
Leber, Benjamin F.  
Springwell, Juan.
- Sebern, Theodore W., Burbank, Calif. Road vehicle. 146,879; June 3.
- Seeburg, J. P., Corporation, assignee: *See*—  
Brockman, Arthur W.  
Miller, Nels A.
- Seech, Rita, Los Angeles, Calif. Combined brooch and containers for cosmetics or the like. 146,323; Feb. 4.
- Selsi Company, Inc., assignee: *See*—  
Silbernagel, Raoul P.
- Senné, Edgar P., Rockville Centre, N. Y. Vacuum cleaner casing. 147,874; Nov. 11.
- Shaefer, F. & M., The, Brewing Co., assignee: *See*—  
Schmitz, Val A.
- Shaffer, Alfred E., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Shoe sole. 147,383; Aug. 26.
- Shaffer, Edward W., Wichita, Kans. Moccasin. 146,340; Feb. 11.
- Shatnfeld, Harry L., Los Angeles, Calif. Ring. 147,476; Sept. 9.
- Shanklin, Richard V., Jr., Huntington, W. Va. Plate or similar article. 146,589; Apr. 8.
- Shannon, Joseph A., Columbus, Ohio. Airplane. 147,875; Nov. 11.
- Shanzer, Max, New York, N. Y. Combined bottle and diaper utility bag. 147,477; Sept. 9.
- Shapiro, Harold B., assignee: *See*—  
Gilbert, Felix.
- Shapiro, Lazarus C., New York, and F. W. Flynn, Belle-rose, assignors to Premier Crystal Laboratories, Incorporated, New York, N. Y. Radio receiver cabinet. 146,385; Feb. 18.
- Shaw, Edward L., Brookline, assignor to Hawkridge Brothers Company, Boston, Mass. Holder for tableware or other articles. 146,526; Mar. 25.
- Shawnee Pottery Company, assignee: *See*—  
Falk, Rolf J.
- Shayne, Irwin, Chicago, Ill., assignor to Zenith Camera Corporation, Camera. 147,930; Nov. 18.
- Sheaffer, A. A., Pen Company, assignee: *See*—  
Reinecke, Jean O.
- Sheaffer, W. A., Pen Company, assignee: *See*—  
Reinecke, Jean O.
- Shepard, Ernest L., Fairfield, Maine. Packing for fragile articles. 147,025; July 1.
- Sherbloom, Thomas F., Los Angeles, Calif. Snack tray. 147,764; Oct. 28.
- Sherr, Isaac B., Los Angeles, Calif. Cigarette dispenser. 147,354; Aug. 19.
- Sherwin, Ralph J., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Lavatory. 147,024; July 1.
- Sherwood, H. A., assignee: *See*—  
Hecht, Arno.
- Shetlin, Emil, Los Angeles, Calif. Draftsman's pencil. 146,527; Mar. 25.
- Shield, Lansing P., Ridgewood, N. J. Display stand. 146,386; Feb. 18.
- Shield, Lansing P., Ridgewood, N. J. Display stand. 146,387; Feb. 18.
- Shields, Robert W., assignor to Century Scientific Products, Inc., Chicago, Ill. Binoculars. 146,487; Mar. 18.
- Shields, Stanley R., assignor of fifteen per cent to C. R. Lucero, Los Angeles, Calif. Portable hair drier. 147,599; Sept. 30.
- Shimotori, Takeo, Wahiawa, Hawaii. Perfume container or the like. 146,528; Mar. 25.
- Short, Jay E., Delta, Ohio. Fish lure. 146,488; Mar. 18.
- Shuler, Clyde, Media, and H. L. van Doren, Ardmore, Pa., assignors to The F. W. Wakefield Brass Company, Vermillion, Ohio. Luminous trough for lighting fixture. 148,191; Dec. 23.
- Shulman, Matthew H., assignor to Blossom Manufacturing Co., New York, N. Y. Plastic film material or similar article. 147,931; Nov. 18.
- Shyer, Joseph, assignor to Zylro Ware Corporation, Long Island City, N. Y. Spectacle frame. 146,236; Jan. 14.
- Shyer, Joseph, assignor to Zylro Ware Corporation, Long Island City, N. Y. Spectacle frame. 146,727; Apr. 29.
- Shyvers, Kenneth C., Seattle, Wash. Music box. 146,880; June 3.
- Shyvers, Kenneth C., Seattle, Wash. Music box. 146,881; June 3.
- Sidell, Sidney J., Detroit, Mich., assignor, by mesne assignments, to Nor Jay Company. Locking cap for gasoline tanks. 146,750; May 6.
- Siegel, Sidney, New York, N. Y. Dress. 146,454; Mar. 11.
- Siessmayr, Joseph L., New Hyde Park, N. Y. Egg cooking and serving cup. 147,994; Nov. 25.
- Silberling, James, assignee, et al: *See*—  
Rudnitzky, Nathan.
- Silbernagel, Raoul P., assignor to Selsi Company, Inc., New York, N. Y. Reading glass mounting. 147,765; Oct. 28.
- Silberstein, Samuel, assignee: *See*—  
Lowenstein, Malcolm W.
- Sills, Philip, Brooklyn, and F. P. Patalano, New York, N. Y. Pair of eyeglasses. 146,237; Jan. 14.
- Silveira, Laurence R., Oakland, Calif. Combined display case and counter. 147,818; Nov. 4.
- Silver, Myer S., Brookline, Mass. Shoe. 146,929; June 10.
- Silver, Myer S., Brookline, Mass. Slipper. 147,995; Nov. 25.
- Silverman, Charles, Providence, R. I. Tie holder. 146,194; Jan. 7.
- Silvers, Myron K., Seattle, Wash. Toilet paper holder. 147,623; Oct. 7.



- Simmons Company, assignee: *See*—  
Lippincott, Joshua G.
- Simon, Albert, and L. Rellinger, assignors to Pacer, Inc., Detroit, Mich. Therapeutic lamp. 147,600; Sept. 30.
- Simons, Morris J., New York, N. Y. Radio receiver or similar article. 148,192; Dec. 23.
- Simpson, Ray, River Forest, Ill. Indicating knob for switches or the like. 146,269; Jan. 21.
- Sineta, Philip, Long Beach, N. Y. Photographic enlarger. 146,195; Jan. 7.
- Singer Manufacturing Company, The, assignee: *See*—  
Ray, Joseph L.
- Sivon, Charles A., Painesville, Ohio. Fly-swatter blade. 146,489; Mar. 18.
- Skewis, William H., assignor to Crane Co., Chicago, Ill. Piping template. 147,026; July 1.
- Skillsaw, Inc., assignee: *See*—  
Koenig, Frank J.
- Slack Rack Co., assignee: *See*—  
London, Murray M.
- Slater, Murray, Brooklyn, N. Y. Pin or similar article. 146,751; May 6.
- Slater, Murray, Brooklyn, N. Y. Pin or similar article. 146,752; May 6.
- Slater, Murray, Brooklyn, N. Y. Pin or similar article. 146,753; May 6.
- Slater, Murray, Brooklyn, N. Y. Pin or similar article. 146,754; May 6.
- Slater, Murray, Brooklyn, N. Y. Bracelet or similar article. 146,779; May 13.
- Slater, Murray, Brooklyn, N. Y. Pin or similar article. 146,950; June 17.
- Sloan, Albert E., Chicago, Ill. Chest for silverware or the like. 147,305; Aug. 12.
- Sloan, Albert E., Chicago, Ill. Chest for silverware or the like. 147,306; Aug. 12.
- Slug, Frank: *See*—  
Pessel, Jacob L., and Slug.
- Smart, Carroll M., Detroit, Mich. Armored automotive vehicle. 146,238; Jan. 14.
- Smith, Henry J., Philadelphia, Pa. Glider. 147,766; Oct. 28.
- Smith, Kenneth, Lenexa, Kans. Golf club head. 148,193; Dec. 23.
- Smith, Kenneth E., Coronado, and A. G. Tsongas, assignors to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Airplane. 147,876; Nov. 11.
- Smith, Lena M., San Jose, Calif. Bracelet. 147,512; Sept. 16.
- Smith Metal Arts Company, Inc., assignee: *See*—  
Braun, Carl C.
- Smith, Nellie M., assignee: *See*—  
Smith, William V.
- Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Double drain tub or similar article. 147,819; Nov. 4.
- Smith, William I., Perrysburg, assignor to The Hettrick Manufacturing Company, Toledo, Ohio. Juvenile vehicle. 147,423; Sept. 2.
- Smith, William I., Perrysburg, assignor to The Hettrick Manufacturing Company, Toledo, Ohio. Table. 147,820; Nov. 4.
- Smith, William I., Perrysburg, assignor to The Hettrick Manufacturing Company, Toledo, Ohio. Juvenile vehicle. 148,194; Dec. 23.
- Smith, William V., assignor of fifty per cent to N. M. Smith, Casper, Wyo. Egg separator. 147,307; Aug. 12.
- Smolensky, Albert G., Cleveland, Ohio. Combined faucet and soap dish. 146,882; June 3.
- Smulski, Theodore J., Gary, Ind., assignor to Productive Inventions, Inc. Shroud for windshield wiper arm. 146,990; June 24.
- Snyder, Leland H., assignor, by mesne assignments, to Quality Appliances, Inc., Chicago, Ill. Handle for coffee pots or the like. 146,688; Apr. 22.
- Snyder, Leland H., assignor, by mesne assignments, to Quality Appliances, Inc., Chicago, Ill. Massaging device or similar article. 147,932; Nov. 18.
- Snyder, Leland H., and K. D. Yost, assignors, by mesne assignments, to Quality Appliances, Inc., Chicago, Ill. Motor housing and handle for household utensils. 148,095; Dec. 9.
- Soabar Company, assignee: *See*—  
Schrem, William.
- Sommerville, Andrew, Pasadena, Calif. Lamp. 148,096; Dec. 9.
- Sonnens, Joseph, assignee, et al.: *See*—  
Rudnitzky, Nathan.
- Sorcher, David, Brooklyn, N. Y. Whatnot. 146,196; Jan. 7.
- Sottile, Joseph, Bronx, N. Y. Checker gameboard. 148,097; Dec. 9.
- Soundsciber Corporation, The, assignee: *See*—  
Stone, Robert L., and Rutan.
- Southwick, Worthington H., New York, assignor to S. Levy, Brooklyn, N. Y. Plastic film material. 146,689; Apr. 22.
- Southwick, Worthington H., New York, assignor to S. Levy, Brooklyn, N. Y. Plastic film material. 146,690; Apr. 22.
- Southwick, Worthington H., New York, assignor to S. Levy, Brooklyn, N. Y. Plastic film material. 146,691; Apr. 22.
- Sovereign, Otto E., Bay City, Mich. Cigarette snuffer. 148,256; Dec. 30.
- Speedo Manufacturing Co., Inc., The, assignee: *See*—  
Bamberger, Alfred A.
- Speidel Corporation, assignee: *See*—  
Augenstein, Karl C.
- Spencer Shoe Corporation, assignee: *See*—  
Butterworth, Frank.
- Spielberg, Saul, University City, Mo. Woman's purse. 147,152; July 15.
- Spies, Bert E., and E. W. Baskette, Dallas, Tex. Tie display tray. 147,821; Nov. 4.
- Spitalny, Fred, Hillside, N. J. Vanity case or similar article. 146,755; May 6.
- Spitalny, Fred, Hillside, N. J. Vanity case or similar article. 147,568; Sept. 23.
- Splaine, Edward M., assignor to American Optical Company, Southbridge, Mass. Spectacle frame or the like. 147,153; July 15.
- Splaine, Edward M., assignor to American Optical Company, Southbridge, Mass. Spectacle frame or the like. 148,039; Dec. 2.
- Sposith, Joseph A., assignor to Blanding Corporation, Philadelphia, Pa. Switch plate or similar article. 148,116; Dec. 16.
- Springwell, Juan, assignor to Sears, Roebuck and Co., Chicago, Ill. Bathtub. 148,195; Dec. 23.
- Square D Company, assignee: *See*—  
Carbonara, Victor E.
- Staab, George J., Springfield, N. J. Pencil sharpener. 146,197; Jan. 7.
- Stacey, Ted R., and R. H. Lesner, assignors to J. Ratajack, Chicago, Ill. Combined folding toothbrush and container therefor. 147,996; Nov. 25.
- Stahl, Harold H., New York, N. Y. Jacket. 146,930; June 10.
- Stahl, Harold H., New York, N. Y. Dress. 146,991; June 24.
- Stahl, Harold H., New York, N. Y. Dress. 147,087; July 8.
- Stahl, Harold H., New York, N. Y. Dress. 147,624; Oct. 7.
- Standard Cap and Seal Corporation, assignee: *See*—  
Zimmermann, Willy E., and Weidanz.
- Standard Oil Company, assignee: *See*—  
Terp, George W.
- Sta-Neet Corporation, assignee: *See*—  
Sanders, Sanford E. A.
- Stanley, John G., Norwood, Ohio. Bracelet or similar article. 147,154; July 15.
- Stanley, Tom E., Houston, Tex. Statuette. 148,257; Dec. 30.
- Stavely, Robert W., Detroit, Mich. Toothbrush. 146,271; Jan. 21.
- Steel, Edwin S., Tarzana, assignor to Bond Bonham, Claremont, Calif. Tractor. 148,040; Dec. 2.
- Steel, John F., assignor to Steel-Walters Corporation, New York, N. Y. Sandal or similar article. 147,308; Aug. 12.
- Steel-Walters Corporation, assignor: *See*—  
Steel, John F.
- Steele, Frederick I.: *See*—  
Wedberg, Frank A., and Steele.
- Steele, George R., assignor to The Duplex Printing Press Company, Battle Creek, Mich. Matrix roller. 146,546; Apr. 1.
- Steen, Gus P., Long Beach, Calif. Can piercer. 148,258; Dec. 30.
- Stefany, Hazel N., Maplewood, N. J. Stuffed locomotive toy. 146,324; Feb. 4.
- Steinberg, Ervin B., Milwaukee, Wis. Bather's cosmetics box or similar article. 146,951; June 17.
- Steinberg, Evelyn B., and D. M. Scott, Los Angeles, Calif. Pin-on purse or similar article. 147,625; Oct. 7.
- Steinberg, Evelyn B., and D. M. Scott, Los Angeles, Calif. Pin-on purse or similar article. 147,736; Oct. 21.
- Steinberg, Jerome H., Brooklyn, N. Y. Combined desk set and lamp standard. 146,883; June 3.
- Steinberg, Jerome H., Brooklyn, N. Y. Endpiece for fluorescent lighting fixtures. 148,117; Dec. 16.
- Steiner, Ernest: *See*—  
Marino, Paul, and Steiner.
- Steiner, Ernest, New York, N. Y. Earring or similar article. 147,877; Nov. 11.
- Stephenson, Charles E., New York, N. Y., assignor to Congoleum-Nairn Inc. Display stand for wall and floor coverings or the like. 146,198; Jan. 7.
- Sterling Tool Products Company, assignee: *See*—  
Crosby, Stephen A., and Zasadny.
- Stern, Charles, Geneva, Switzerland. Timepiece dial. 147,601; Sept. 30.
- Stern, Charles, Geneva, Switzerland. Timepiece dial. 147,602; Sept. 30.
- Stern, Charles, Geneva, Switzerland. Hour character for timepiece dial. 147,603; Sept. 30.
- Stern, Charles, Geneva, Switzerland. Hour character for timepiece dial. 147,604; Sept. 30.
- Stern, Louis, assignee: *See*—  
New, Eric T.
- Stern, William, Islip, N. Y. Combined chair, hair dryer, and supply cabinet. 147,155; July 15.
- Sternberger, Arthur, New York, N. Y. Skirt or similar article. 146,835; May 27.



- Sterno, Inc., assignee: *See*—  
O'Connell, Daniel C.
- Stevens, Clifford B., Milwaukee, assignor to Wheary Incorporated, Racine, Wis. Hand luggage case. 146,812; May 20.
- Stevens, Clifford B., Milwaukee, assignor to Wheary Incorporated, Racine, Wis. Handle for hand luggage. 146,836; May 27.
- Stevens, Clifford B., Milwaukee, assignor to Wheary Incorporated, Racine, Wis. Handle for hand luggage. 147,878; Nov. 11.
- Stevens, Linda, Jackson Heights, and B. Buda, Long Island City, N. Y. Lighter. 147,253; Aug. 5.
- Stevens, William H., Jr., Des Moines, Iowa. Bottle cap. 147,027; July 1.
- Stewart Products Corporation, The, assignee: *See*—  
Strempel, Edward L.
- Stewart-Warner Corporation, assignee: *See*—  
Ayes, Francis L.  
Fossum, Erling G., and Ayers.  
Zeller, Herbert J., Jr.
- Steinye, Alan N., deceased, Washington, D. C., E. and E. S. Untermyer, executors, assignor to E. S. Untermyer, New York, N. Y. Sandal. 146,325; Feb. 4.
- Stieff Company, The, assignee: *See*—  
Geiges, Karl.
- Stokes, Dorothy W., Mobile, Ala. Doll. 147,997; Nov. 25.
- Stokes, Izetta, Belmont, Calif. Doll. 146,692; Apr. 22.
- Stone, Max A., Brooklyn, N. Y. Multiple funnel. 147,737; Oct. 21.
- Stone, Morris S., University Heights, assignor to American Greeting Publishers Inc., Cleveland, Ohio. Card cabinet or similar article. 147,384; Aug. 26.
- Stone, Morris S., University Heights, assignor to American Greeting Publishers Inc., Cleveland, Ohio. Card cabinet or similar article. 147,385; Aug. 26.
- Stone, Robert L., Guilford, Conn., and E. F. Rutan, New York, N. Y., assignors to The Soundsciber Corporation, New Haven, Conn. Transcriber listening device. 146,992; June 24.
- Storm, Frederick K., Jr., assignee: *See*—  
Finn, John F.
- Storm, Frederick K., Los Angeles, Calif., assignor to Adel Precision Products Corp. Barbecue tongs. 146,728; Apr. 29.
- Storm, Frederick K., Los Angeles, Calif., assignor to Adel Precision Products Corp. Barbecue fork. 146,729; Apr. 29.
- Stout, Thorne F., assignor to Ogden Manufacturing Company, Dayton, Ohio. Helicopter toy. 147,513; Sept. 16.
- Straft, Adelaide, Hawthorne, Calif. Pin or similar article. 146,813; May 20.
- Strassner, John F., New York, N. Y. Jacket. 147,690; Oct. 14.
- Strassner, John F., New York, N. Y. Dress. 147,691; Oct. 14.
- Strassner, John F., New York, N. Y. Dress. 147,692; Oct. 14.
- Strassner, John F., New York, N. Y. Dress. 147,693; Oct. 14.
- Strassner, John F., New York, N. Y. Suit. 147,694; Oct. 14.
- Strassner, John F., New York, N. Y. Jacket. 147,695; Oct. 14.
- Strassner, John F., New York, N. Y. Dress ensemble. 147,696; Oct. 14.
- Strassner, John F., New York, N. Y. Dress ensemble. 147,697; Oct. 14.
- Strassner, John F., New York, N. Y. Jacket. 147,698; Oct. 14.
- Strassner, John F., New York, N. Y. Dress ensemble. 147,699; Oct. 14.
- Strassner, John F., New York, N. Y. Dress. 147,700; Oct. 14.
- Strassner, John F., New York, N. Y. Jacket. 147,822; Nov. 4.
- Strauss, Irving, Bridgeport, Conn., and G. O. Kaye, Forest Hills, N. Y. Record player or similar article. 146,199; Jan. 7.
- Streib, Lillian, Stratford, Conn. Game board. 147,222; July 29.
- Strempel, Edward L., Greenwich, Conn., assignor to The Stewart Products Corporation. Lipstick holder. 147,514; Sept. 16.
- Streng, Jan, Mason, N. H., assignor to Remington Rand Inc., Buffalo, N. Y. Combined bookkeeping machine and stand. 146,388; Feb. 18.
- Streng, Jan, Mason, N. H., assignor to Remington Rand Inc., Buffalo, N. Y. Combined bookkeeping machine and stand. 146,389; Feb. 18.
- Streng, Jan, Mason, N. H., assignor to Remington Rand Inc., Buffalo, N. Y. Bookkeeping machine. 147,355; Aug. 19.
- Streng, Jan., Mason, N. H., assignor to Remington Rand Inc., Buffalo, N. Y. Combined bookkeeping machine and stand. 148,259; Dec. 30.
- Streng, Jan, Ridgefield, Conn., assignor to Remington Rand Inc., Buffalo, N. Y. Electric shaver carrying case. 147,254; Aug. 5.
- Stritter, Karl A., Nahant, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe. 147,356; Aug. 19.
- Stroop, John H., New York, N. Y. Combination handle and control valve for fire extinguishers. 147,933; Nov. 18.
- Strotkemper, Karl, assignee, et al.: *See*—  
Gallo, Frederick.
- Strub, Theodore F., Chicago, Ill. Cuff link. 147,934; Nov. 18.
- Studebaker Corporation, The, assignee: *See*—  
Exner, Virgil M., and Gardner.
- Sturm, Milton, & Co., assignee: *See*—  
Waltman, Chauncey E.
- Sturm, Milton L., assignee: *See*—  
Waltman, Chauncey E.
- Sturm, Milton L., Chicago, Ill. Hostess tray. 147,088; July 8.
- Sturm, Milton L., Chicago, Ill. Hostess tray. 147,089; July 8.
- Sturm, Milton L., Chicago, Ill. Hostess tray. 147,090; July 8.
- Sturm, Milton L., Chicago, Ill. Shoe tree. 147,156; July 15.
- Sudbrink, Harold J., Woodside, N. Y. Casing for cigarette lighter. 146,276; Jan. 21.
- Sukovich, Andrew E., Linden, N. J. Tricycle. 146,193; Jan. 7.
- Suman, Alwin L., Sierra Madre, Calif. Picture frame. 147,767; Oct. 28.
- Summers, Richard F., New York, N. Y. Whirling toy. 146,814; May 20.
- Sundberg, Carl W., Detroit, Mich., assignor to Reynolds Metals Company, Richmond, Va. Chair. 147,935; Nov. 18.
- Superedge Corporation, assignee: *See*—  
Lambert, Reuben B.
- Suraci, Anthony, Scranton, Pa. Cigar package. 146,529; Mar. 25.
- Susquehanna Mills, Inc., assignee: *See*—  
Hallgarten, Marie-Helene.  
Hughes, Muriel J.  
Rohr, Peter J.
- Sutton, John H., Los Angeles, Calif. Match book holder. 148,118; Dec. 16.
- Swank, Inc., assignee: *See*—  
Howard, Viola T.
- Swanson, Luane E., Cherokee, Iowa. Airplane. 146,993; June 24.
- Swartzbaugh, Jason B., assignor to The Swartzbaugh Manufacturing Company, Toledo, Ohio. Electric cooker unit. 146,326; Feb. 4.
- Swartzbaugh Manufacturing Company, The, assignee: *See*—  
Swartzbaugh, Jason B.
- Swartzmiller, Joseph J., Carnegie, Pa. Combination desk unit. 146,490; Mar. 18.
- Swartzmiller, Joseph J., Carnegie, Pa. Combination clock and desk unit. 146,491; Mar. 18.
- Swartzmiller, Joseph J., Carnegie, Pa. Picture stand. 146,530; Mar. 25.
- Swartzmiller, Joseph J., Carnegie, Pa. Combination vanity and radio or similar article. 146,624; Apr. 15.
- Sweger, Russell P., Rockford, Ill. Automotive vehicle. 146,884; June 3.
- Swift, Emma M., Birmingham, Mich. Condiment dispenser. 147,879; Nov. 11.
- Swindell Brothers, Incorporated, assignee: *See*—  
Dunnoch, John L.
- Symons, Mervin O., and R. Davis, Los Angeles, Calif. Refreshment booth. 147,605; Sept. 30.
- Syracuse Ornamental Co. Inc., assignee: *See*—  
Bach, Alfons.  
Diamond, Freda.  
Fisher, Frederic H.
- Syerstad, Iver, Winthrop, Mass. Flag holder or similar article. 148,260; Dec. 30.
- Taborski, Alfred F., Buffalo, N. Y. Necktie. 147,478; Sept. 9.
- Takata, Marty, Belton, Tex. Buckle. 146,693; Apr. 22.
- Talge, Henry J., Kansas City, Mo. Broiler base. 147,569; Sept. 23.
- Talge, Henry J., Kansas City, Mo. Broiler base. 147,570; Sept. 23.
- Tanchuck, Emanuel, Los Angeles, Calif. Electric light support. 148,098; Dec. 9.
- Tanchuck, Emanuel, Los Angeles, Calif. Electric light support. 148,099; Dec. 9.
- Tandy, David L., Fort Worth, Tex. Chain tie clasp. 146,815; May 20.
- Tappan Stove Company, The, assignee: *See*—  
Bauer, William.
- Tatro, Lysle G., Los Angeles, assignor to J. B. Wood Corporation, West Los Angeles, Calif. Combined flash lamp igniter and camera shutter synchronizer. 146,390; Feb. 18.
- Taylor, David, Great Neck, N. Y. Lapel watch frame. 146,994; June 24.
- Taylor, David, Great Neck, N. Y. Lapel watch frame. 146,995; June 24.
- Taylor, David, Great Neck, N. Y. Lapel watch frame. 146,996; June 24.
- Taylor, David, Great Neck, N. Y. Lapel watch frame. 147,255; Aug. 5.
- Taylor, Herbert S., Los Angeles, Calif. Sign exhibitor. 147,823; Nov. 4.
- Taylor, Robert H., Brooklyn, N. Y. Tie clasp. 146,200; Jan. 7.
- Taylor, William H., Wednesbury, assignor to The Birmingham Small Arms Company Limited, Birmingham, England. Bicycle frame. 146,436; Mar. 4.



- Taylor, William H., Wednesbury, assignor to The Birmingham Small Arms Company Limited, Birmingham, England. Bicycle frame. 146,437; Mar. 4.
- Teahang, Te Lou, New York, N. Y. Floor polisher. 147,309; Aug. 12.
- Teague, Walter D.: *See—*  
Schuender, George, and Teague.
- Teague, Walter D., Annandale, N. J., assignor to Moore Business Forms, Inc., Niagara Falls, N. Y. Portable autographic register. 147,626; Oct. 7.
- Tellier, Andre, New York, N. Y. Combined clock face and map. 146,455; Mar. 11.
- Tellier, Andre, New York, N. Y. Combined map and clock face. 147,091; July 8.
- Terp, George W., assignor to Standard Oil Company, Chicago, Ill. Service station building of the like. 148,196; Dec. 23.
- Theobald, Jean G., assignor to International Silver Company, Meriden, Conn. Dish or other article of hollow ware. 147,157; July 15.
- Theobald, Jean G., assignor to International Silver Company, Meriden, Conn. Dish or other article of hollow ware. 147,158; July 15.
- Therrios, Angelo P., Jersey City, N. J. Condiment holding dish or similar article. 148,197; Dec. 23.
- Thomas, Glenn, Toledo, Ohio. Telephone chair. 147,386; Aug. 26.
- Thompson, Ethelle, assignor to Ethelle, Inc., Los Angeles, Calif. Printed fabric. 147,310; Aug. 12.
- Thompson, Ethelle, assignor to Ethelle, Inc., Los Angeles, Calif. Printed fabric. 147,479; Sept. 9.
- Thompson, Josephus, Covington, assignor of one-third to Grossman Music Company, Cleveland, Ohio. Musical instrument mouthpiece. 146,547; Apr. 1.
- Thompson, Josephus, Covington, assignor of one-third to Grossman Music Company, Cleveland, Ohio. Multitone whistle. 146,837; May 27.
- Thompson, Wayne L., Eightyfour, assignor to Toyad Corporation, Pittsburgh, Pa. Game apparatus. 146,492; Mar. 18.
- Thomson, Ernest F., Tuckahoe, N. Y., assignor, by mesne assignments, to Reconstruction Finance Corporation, Kansas City, Mo. Phonograph cabinet. 147,627; Oct. 7.
- Three-In-One Doll Corporation, assignee: *See—*  
Winterfeld, Elsie G.
- Tibbets, Elliott R., Indianapolis, Ind. Ash tray. 148,261; Dec. 30.
- Tiffany & Company, assignee: *See—*  
Blake, Charles B.
- Tilton & Cook Co., assignee: *See—*  
Holden, Crofton C.
- Tobler, Hans, Teaneck, N. J. Embroidered trimming or similar article. 146,289; Jan. 28.
- Tobler, Hans, Teaneck, N. J. Embroidered trimming or similar article. 146,290; Jan. 28.
- Tobler, Hans, Teaneck, N. J. Embroidered trimming or similar article. 146,291; Jan. 28.
- Tobler, Hans, Teaneck, N. J. Embroidered trimming or similar article. 147,159; July 15.
- Tobler, Hans, Teaneck, N. J. Embroidered trimming or similar article. 147,160; July 15.
- Tobler, Hans, Teaneck, N. J. Embroidered trimming or similar article. 147,161; July 15.
- Tobler, Hans, Teaneck, N. J. Embroidered trimming or similar article. 147,162; July 15.
- Tobler, Hans, Teaneck, N. J. Embroidered trimming or similar article. 147,163; July 15.
- Tobler, Hans, Teaneck, N. J. Embroidered trimming or similar article. 147,164; July 15.
- Toledo Scale Company, assignee: *See—*  
Little, John M.  
Wood, George R.
- Tomarin, Harry A., Cincinnati, Ohio. Clock figure toy. 146,531; Mar. 25.
- Tomarin, Harry A., Cincinnati, Ohio. Spinning toy. 147,701; Oct. 14.
- Tomlinson of High Point, assignee: *See—*  
Tomlinson, William A., and Neville.
- Tomlinson, William A., High Point, and R. W. Neville, Trinity, assignors to Tomlinson of High Point, High Point, N. C. Vanity table. 148,198; Dec. 23.
- Tomlinson, William A., High Point, and R. W. Neville, Trinity, assignors to Tomlinson of High Point, High Point, N. C. Chest of drawers. 148,199; Dec. 23.
- Tompkins, Alan, Stratford, Conn., assignor to General Electric Company. Kitchen cabinet. 148,200; Dec. 23.
- Torrey, Fred M., assignor to Plasto Manufacturing Company, Chicago, Ill. Book end. 147,480; Sept. 9.
- Towle Manufacturing Company, assignee: *See—*  
Ayres, Samuel, Jr.
- Townsend, Margaret H. and R. C., Fort Worth, Tex. Garment hanger. 146,997; June 24.
- Townsend, Margaret H. and R. C., Fort Worth, Tex. Garment hanger. 146,998; June 24.
- Townsend, Robert C.: *See—*  
Townsend, Margaret H. and R. C.
- Townsend, Robert L., Upper Darby, Pa. House. 146,625; Apr. 15.
- Toyad Corporation, assignee: *See—*  
Thompson, Wayne L.
- Tracy, Harold G., Detroit, Mich. Night light. 147,824; Nov. 4.
- Transcontinental & Western Air, Inc., assignee: *See—*  
Roselle, Richard D.
- Traub-Lyons-Oppenheim, Inc., assignee: *See—*  
Oppenheim, Austin N.
- Traum, David, Company, Incorporated, assignee: *See—*  
Nehrenz, William L.
- Trautner, Wagn, Syracuse, N. Y. Ash tray. 146,780; May 13.
- Treiber, Theodore R., Chicago, Ill. Soap holder. 147,515; Sept. 16.
- Tresise, Raleigh E., Cleveland Heights, and P. D. Kendall, Maple Heights, assignors to Paraphone Hearing Aid, Inc., Cleveland, Ohio. Casing for hearing aid apparatus. 146,838; May 27.
- Tresise, Raleigh E., Cleveland Heights, and P. D. Kendall, Maple Heights, assignors to Paraphone Hearing Aid, Inc., Cleveland, Ohio. Casing for hearing aid apparatus. 146,839; May 27.
- Treuting, Frank L., assignor to H. R. Treuting, Sr., Newark, N. J. Articulated animal figure. 146,816; May 20.
- Treuting, Herbert R., Sr., assignee: *See—*  
Treuting, Frank L.
- Trifari Krussman & Fishel Inc., assignee: *See—*  
Philippe, Alfred.
- Troche, Herman J.: *See—*  
Holman, James H., Jr., and Troche.
- Trombley, Bertrand N., Birmingham, assignor to The Murray Corporation of America, Detroit, Mich. Control knob. 146,327; Feb. 4.
- Troxell, Kenneth G., Easton, Pa. Christmas ornament. 148,262; Dec. 30.
- Troyan, Joseph P., Los Angeles, Calif. Portable bar and radio combination. 147,880; Nov. 11.
- Tsongas, Alexander G.: *See—*  
Smith, Kenneth E., and Tsongas.
- Tullgren, Lester C., Minneapolis, Minn., assignor of one-half to H. Moessner, Menomonie, Wis. Shoe. 146,438; Mar. 4.
- Tullgren, Lester C., Minneapolis, Minn., and J. S. Bonkiewicz, Jr., Lodgepole, Nebr. Shoe clog. 146,885; June 3.
- Tuomey, John D., Forest Hills, assignor to Union Aircraft Products Corporation, New York, N. Y. Cigarette and match holder. 147,165; July 15.
- Tuomey, John D., Forest Hills, assignor to Union Aircraft Products Corporation, New York, N. Y. Cigarette package and match holder. 147,166; July 15.
- Turner, John L., Old Saybrook, Conn. Snow sled or the like. 146,626; Apr. 15.
- Turton, Arthur A., Los Angeles, Calif. Vehicle. 146,931; June 10.
- Tuve, Richard L., Silver Spring, Md. Foam generating apparatus. 146,730; Apr. 29.
- Tyler, Carol J., Hollywood, Calif. Lady's coat. 146,627; Apr. 15.
- Uihlein, George V., Worcester, Mass. Carpet or similar article. 147,092; July 8.
- Uncas Manufacturing Company, assignee: *See—*  
Barbieri, Nicholas.  
Wagner, George P.
- Underberger, Louis, Farmington, N. H. Moccasin. 148,201; Dec. 23.
- Underberger, Louis, Farmington, N. H. Moccasin. 148,202; Dec. 23.
- Ungemah, Agnes H., White Plains, N. Y. Ring holder or the like. 146,239; Jan. 14.
- Union Aircraft Products Corporation, assignee: *See—*  
Tuomey, John D.
- United Shoe Machinery Corporation, assignee: *See—*  
Stritter, Karl A.
- United States Industries, Incorporated, assignee: *See—*  
Howells, Henry C.
- United States Time Corporation, The, assignee: *See—*  
Godart, Pierre J.
- Universal Cooler Company of Canada, Ltd., assignee: *See—*  
Robertson, Daniel.
- Untermyer, Elise S., executor, assignee, et al.: *See—*  
Steyne, Alan N.
- Untermyer, Eugene, executor, et al.: *See—*  
Steyne, Alan N.
- Utley, Lewis S., Forest Hills, N. Y., assignor to Columbia Protektosite Co., Inc., Carlstadt, N. J. Comb. 147,167; July 15.
- Utley, Lewis S., Forest Hills, N. Y., assignor to Columbia Protektosite Co., Inc., Carlstadt, N. J. Comb with a handle. 147,387; Aug. 26.
- Vaccarello, Raymond, assignor of one-half to S. Vaccarello, Los Angeles, Calif. Poker chip holder. 146,731; Apr. 29.
- Vaccarello, Sam: *See—*  
Vaccarello, Raymond.
- Vaiana, Frank, Alhambra, Calif. Wash cloth. 147,998; Nov. 25.
- Valentine, Arthur H., assignor to Valentine Industries, Inc., Wichita, Kans. Roadside shop or the like. 147,881; Nov. 11.
- Valentine Industries, Inc., assignee: *See—*  
Valentine, Arthur H.
- Valinski, Michael F., and E. W. Leyva, San Diego, Calif. Combined radio, clock, and bed lamp. 146,548; Apr. 1.
- Van Denburg, Claude O., Cleveland, Ohio. Figurine. 146,328; Feb. 4.
- Vanderbilt, Gloria, Corporation, assignee: *See—*  
Chalom, Maurice.



- Van Doren, Harold L.: *See*—  
Shuler, Clyde, and van Doren.
- Van Dyke, Edward E., Sherman Oaks, Calif. Magnifier. 146,272; Jan. 21.
- Van Wagner, Ethel C., Cheshire, Conn. Set of playing cards. 146,201; Jan. 7.
- Varrieur, Albert L., and C. E. Hollyday, Jr., assignors to The Glenn L. Martin Company, Baltimore, Md. Passenger loading ramp. 146,202; Jan. 7.
- Veach, Berce L., St. Louis, Mo. Infant's sandal. 147,311; Aug. 12.
- Vernier, George B.: *See*—  
Emde, Kurt, and Vernier.
- Verrand, Mamie, New York, N. Y. Dress. 147,999; Nov. 25.
- Verrand, Mamie, New York, N. Y. Dress. 148,000; Nov. 25.
- Verrand, Mamie, New York, N. Y. Dress. 148,001; Nov. 25.
- Verrand, Mamie, New York, N. Y. Dress. 148,002; Nov. 25.
- Verrand, Mamie, New York, N. Y. Dress. 148,003; Nov. 25.
- Verrecchia, Alfeo, Providence, R. I. Brooch or similar article. 147,768; Oct. 28.
- Verrecchia, Alfeo, Providence, R. I. Brooch or similar article. 147,769; Oct. 28.
- Verrecchia, Alfeo, Providence, R. I. Brooch or similar article. 147,770; Oct. 28.
- Verrecchio, Gene, assignor to Coro, Inc., New York, N. Y. Earring. 146,781; May 13.
- Vevirit, James B., Buffalo, assignor to Scott Aviation Corporation, Lancaster, N. Y. Airplane control wheel. 147,702; Oct. 14.
- Victor Equipment Company, assignee: *See*—  
Ladd, Russell H.
- Victor Metal Products Corporation, assignee: *See*—  
Derham, Philip A.  
Jung, Albert H.
- Vigars, Charles R., Bellflower, Calif. Combined serving utensil and ash tray. 146,886; June 3.
- Villanueva, Luis A., Madrid, Spain. Pair of sunglasses. 147,168; July 15.
- Vinnedge, George E., Fort Worth, Tex. Combination sundial and bird bath. 146,840; May 27.
- Voellmy, Emil, Minneapolis, Minn. Game board. 146,203; Jan. 7.
- Vogl, John J., assignor to Badger Glove and Slipper Company, Milwaukee, Wis. Child's slipper. 147,424; Sept. 2.
- Volles Engineering Company, assignee: *See*—  
Voiles, Oscar M.
- Voiles, Oscar M., assignor to Voiles Engineering Company, Royal Oak, Mich. Combined toaster and hot plate or similar article. 147,169; July 15.
- Volpicelli, Vito L., Scranton, Pa. Airplane. 146,204; Jan. 7.
- Volupte, Inc., assignee: *See*—  
Gaige, Richard T.
- Von Baudissin, Hedwig J., New York, N. Y. Shoe. 146,423; Feb. 25.
- Von Helmlot, Margaret L. S., New York, N. Y. Doll or similar article. 147,425; Sept. 2.
- Vorsanger, Fritz, Englewood, N. J. Electric lighting fixture. 147,093; July 8.
- Wachsmann, Melson J., Grand Rapids, assignor to Wilcox-Gay Corporation, Charlotte, Mich. Combination radio and phonograph cabinet. 147,208; July 22.
- Wachsmann, Melson J., Grand Rapids, assignor to Wilcox-Gay Corporation, Charlotte, Mich. Radio phonograph cabinet. 147,481; Sept. 9.
- Wagner, George P., Edgewood, R. I., assignor to Uncas Manufacturing Company. Finger ring. 147,571; Sept. 23.
- Wagner, Paul, Turtle Creek, Pa. Wind propelled toy. 148,263; Dec. 30.
- Wahrer, George W., Cleveland, Ohio. Plaque. 147,388; Aug. 26.
- Wakefield, F. W. Brass Company, The, assignee: *See*—  
Shuler, Clyde, and van Doren.
- Wakefield, Richard N., Kansas City, Mo. Airport administration building. 147,738; Oct. 21.
- Wald, Harry J., assignee, et al.: *See*—  
Dietze, George E.
- Wald, Leon, assignee, et al.: *See*—  
Dietze, George E.
- Waldron & Company, Inc., assignee: *See*—  
Waldron, James J.
- Waldron, James J., assignor to Waldron & Company, Inc., Philadelphia, Pa. Vendible display container for finger rings. 147,256; Aug. 5.
- Waldrop, Jefferson P., Arlington, Va. Bottle case. 147,028; July 1.
- Wales, Nathaniel B., assignor to Industrial Patent Corporation, New York, N. Y. Radio receiver. 146,391; Feb. 18.
- Walgreen Co., assignee: *See*—  
Weber, John, Jr.
- Walker, George W., assignor, by mesne assignments, to H. D. Brozman, Detroit, Mich. Washing machine. 146,341; Feb. 11.
- Walker, George W., Pleasant Ridge, Mich., assignor to B & V New Products Company, Rochester, N. Y. Hobbyhorse. 147,517; Sept. 16.
- Walker, George W., Pleasant Ridge, Mich., assignor to B & V New Products Company, Rochester, N. Y. Hobbyhorse. 147,518; Sept. 16.
- Walker, George W., Pleasant Ridge, Mich., and B. G. Baldwin, Euclid Beach Park, Ohio, assignors to B & V New Products Company, Rochester, N. Y. Hobbyhorse. 147,516; Sept. 16.
- Walker, Jane, New York, N. Y. Dress. 146,292; Jan. 28.
- Walker, Jane, New York, N. Y. Dress. 146,293; Jan. 28.
- Walker, Jane, New York, N. Y. Dress. 146,294; Jan. 28.
- Walker, Jane, New York, N. Y. Dress. 146,295; Jan. 28.
- Walker, Jane, New York, N. Y. Dress. 146,329; Feb. 4.
- Walker, Jane, New York, N. Y. Dress. 146,330; Feb. 4.
- Walker, Jane, New York, N. Y. Dress. 146,331; Feb. 4.
- Walker, Jane, New York, N. Y. Dress. 146,456; Mar. 11.
- Walker, Jane, New York, N. Y. Dress. 146,457; Mar. 11.
- Walker, Jane, New York, N. Y. Dress. 146,458; Mar. 11.
- Walker, Jane, New York, N. Y. Dress. 146,549; Apr. 1.
- Walker, Jane, New York, N. Y. Dress. 146,628; Apr. 15.
- Walker, Jane, New York, N. Y. Dress. 146,629; Apr. 15.
- Walker, Jane, New York, N. Y. Jacket. 146,732; Apr. 29.
- Walker, Jane, New York, N. Y. Suit. 146,817; May 20.
- Walker, Jane, New York, N. Y. Coat. 146,818; May 20.
- Walker, Jane, New York, N. Y. Suit. 146,952; June 17.
- Walker, Jane, New York, N. Y. Suit. 146,953; June 17.
- Walker, Joset, New York, N. Y. Dress. 147,936; Nov. 18.
- Walker, Theron H., Los Angeles, Calif. Vegetable cutter or the like. 148,203; Dec. 23.
- Wallack, Stephen S., New York, N. Y. Shaving brush holder. 147,771; Oct. 28.
- Walsh, John J., St. Louis, Mo. Shoe. 147,628; Oct. 7.
- Waltman, Chauncey E., assignor to M. L. Sturm, doing business as Milton Sturm & Co., Chicago, Ill. Hostess tray. 147,094; July 8.
- Walworth Patents Inc., assignee: *See*—  
McManus, Joseph D., and Hunt.
- Wappner, Ralph C., assignor to The Ohio Thermometer Company, Springfield, Ohio. Thermometer. 146,439; Mar. 4.
- Wappner, Ralph C., assignor to The Ohio Thermometer Company, Springfield, Ohio. Thermometer. 146,440; Mar. 4.
- Wappner, Ralph C., assignor to The Ohio Thermometer Company, Springfield, Ohio. Thermometer. 146,441; Mar. 4.
- War, United States of America, as represented by the Secretary of, assignee: *See*—  
Draper, Harold W.  
Jones, Thomas H.
- Ward Electric Company, assignee: *See*—  
Ward, Samuel A.
- Ward, Samuel A., assignor to Ward Electric Company, Chicago, Ill. End unit for fluorescent lighting fixture or the like. 147,882; Nov. 11.
- Warner, Bruce F.: *See*—  
Draper, George, and Warner.
- Warren, Dorothy L.: *See*—  
Warren, Robert A. and D. L.
- Warren, Robert A. and D. L., Lakewood, Ohio. Baby's formula mixer and container. 146,756; May 6.
- Waters, Harry, New York, N. Y. Slipper. 146,392; Feb. 18.
- Watkins, Frank W., Cleveland, Ohio. Lighting fixture. 147,357; Aug. 19.
- Watling, John, assignor to Watling Scale Company, Chicago, Ill. Weighing scale. 148,004; Nov. 25.
- Watling Scale Company, assignee: *See*—  
Watling, John.
- Webb, James A., Rochester, N. Y. Educational device to teach children to read a clock. 146,757; May 6.
- Weber, John, Jr., assignor to Walgreen Co., Chicago, Ill. Combined holder for drinking glasses, dishes and the like. 148,100; Dec. 9.
- Wedberg, Frank A., Buffalo, and F. I. Steele, Snyder, N. Y., assignors to Curtiss-Wright Corporation. Airplane. 146,240; Jan. 14.
- Weeber, Marion, New York, N. Y. Button or similar article. 147,029; July 1.
- Weeber, Marion, New York, N. Y. Button or similar article. 147,030; July 1.
- Weeber, Marion, New York, N. Y. Button or similar article. 147,031; July 1.
- Weidanz, Herman E.: *See*—  
Zimmermann, Willy E., and Weidanz.
- Weinberger, Edward L., New York, N. Y. Twirling toy. 146,273; Jan. 21.
- Weisburgh, Herbert L., New Rochelle, assignor to Radio & Television, Inc., New York, N. Y. Combination radio and phonograph cabinet. 147,703; Oct. 14.
- Weisburgh, Herbert L., New Rochelle, assignor to Radio & Television, Inc., New York, N. Y. Combination radio-phonograph cabinet. 148,204; Dec. 23.
- Weksler Thermometer Corporation, assignee: *See*—  
Dobrin, Edward P.
- Welker, Alfred, Detroit, Mich. Nutcracker or similar article. 148,264; Dec. 30.
- Wells, Edward S., assignor to Boeing Aircraft Company, Seattle, Wash. Throttle type faucet. 147,209; July 22.
- Wemyss, Robert B., Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va. Tea kettle. 146,999; June 24.
- Wemyss, Robert B., Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va. Dutch oven. 147,000; June 24.



- Wemyss, Robert B., Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va. Suitcase. 147,825; Nov. 4.
- Wemyss, Robert B., Louisville, Ky., assignor to Reynolds Metals Company, Richmond, Va. Covered saucepan. 147,937; Nov. 18.
- Wenpetren, Lawrence, Detroit, Mich. Wheeled hobby-horse. 146,932; June 10.
- Werth, Lawrence A., Dearborn, Mich. Gravy cup. 147,739; Oct. 21.
- Wertz, Hugh S., assignee, trustee: *See*—  
Earle, Guyon L. C.
- West Bend Aluminum Company, assignee: *See*—  
Ramsthal, Alfred F.
- Westinghouse Electric Corporation, assignee: *See*—  
Little, John M.  
Peterson, Clyde A.
- Westrate, Ada, assignor to The Meyercord Co., Chicago, Ill. Wallpaper border or similar article. 146,393; Feb. 18.
- Westrate, Ada, assignor to The Meyercord Co., Chicago, Ill. Wallpaper border or similar article. 146,394; Feb. 18.
- Westrate, Ada, assignor to The Meyercord Co., Chicago, Ill. Wallpaper border or similar article. 146,395; Feb. 18.
- Westrate, Ada, assignor to The Meyercord Co., Chicago, Ill. Wallpaper border or similar article. 146,396; Feb. 18.
- Westrate, Ada, assignor to The Meyercord Co., Chicago, Ill. Wallpaper border or similar article. 146,397; Feb. 18.
- Westrate, Ada, assignor to The Meyercord Co., Chicago, Ill. Wallpaper border or similar article. 146,532; Mar. 25.
- Westrate, Ada, assignor to The Meyercord Co., Chicago, Ill. Wallpaper border or similar article. 146,533; Mar. 25.
- Westrate, Ada, assignor to The Meyercord Co., Chicago, Ill. Wallpaper border or similar article. 147,032; July 1.
- Wetmore, Elsie E., Los Angeles, Calif. Toy animal figure. 147,826; Nov. 4.
- Wheary, George H., Jr., assignor to Wheary Incorporated, Racine, Wis. Textile fabric or similar article. 146,819; May 20.
- Wheary, George H., Jr., assignor to Wheary Incorporated, Racine, Wis. Hand luggage case. 147,704; Oct. 14.
- Wheary Incorporated, assignee: *See*—  
Stevens, Clifford.  
Stevens, Clifford B.  
Wheary, George H., Jr.
- Wheeler, James W., Cincinnati, Ohio. Stand for holding cosmetics and similar articles. 146,887; June 3.
- Wheeler, John D., assignor to American Metalcraft Corporation, Detroit, Mich. Wagon. 148,265; Dec. 30.
- Wheeler, John D., assignor to American Metalcraft Corporation, Detroit, Mich. Scooter. 148,266; Dec. 30.
- While, Roy R., assignor to Henry Paulson and Company, Chicago, Ill. Watch cleaning tray. 147,095; July 8.
- White, Constance R., Beverly Hills, Calif. Toy fish or similar article. 147,629; Oct. 7.
- White, Paul W., New Haven, Conn. Combination measuring instrument. 146,342; Feb. 11.
- Whiteford, Errington A., Darien, Conn. Paper or the like. 147,223; July 29.
- Whitlock, Neil H., Toledo, Ohio. Package for soap powder or similar commodity. 147,096; July 8.
- Whitman, Stephen F., & Son, Inc., assignee: *See*—  
Platt, Joseph B.
- Wickesberg, Alfred W., and E. C. Klotz, Jr.; said Klotz assignor to said Wickesberg, Milwaukee, Wis. Tool and implement holder. 146,493; Mar. 18.
- Wilcox-Gay Corporation, assignee: *See*—  
Wachsman, Melson J.
- Wilde, Hans W., North Bergen, N. J. Textile fabric. 146,630; Apr. 15.
- Wilde, Hans W., North Bergen, N. J. Textile fabric. 146,631; Apr. 15.
- Wilde, Hans W., North Bergen, N. J. Textile fabric. 146,632; Apr. 15.
- Wilde, Hans W., North Bergen, N. J. Textile fabric. 146,633; Apr. 15.
- Wilde, Hans W., North Bergen, N. J. Textile fabric. 146,634; Apr. 15.
- Wilde, Hans W., North Bergen, N. J. Textile fabric. 146,694; Apr. 22.
- Wilde, Hans W., North Bergen, N. J. Textile fabric. 147,358; Aug. 19.
- Wilde, John P., Sands Point, N. Y. Powder container. 148,101; Dec. 9.
- Wiley, Guy: *See*—  
Wiley, Guyles B.
- Wiley, Guyles B., also known as Guy Wiley, Columbus, Ohio. House plan template. 147,705; Oct. 14.
- Wilkins, Emily, New York, N. Y. Coat. 146,274; Jan. 21.
- Williams, Clifford W., and C. E. Manns, Memphis, Tenn. Combined napkin holder and ash tray. 147,706; Oct. 14.
- Williamson, Tollie L., and H. A. Nettles, Little Rock, Ark.; said Nettles assignor to said Williamson. Unit combination dining table and chairs. 147,772; Oct. 28.
- Wilson, Arthur W., Riverton, N. J., assignor to Bachmann Bros., Inc., Philadelphia, Pa. Pair of goggles. 147,883; Nov. 11.
- Wilson, Earl L.: *See*—  
Cook, Charles S., and Wilson.
- Wilson, Lawrence H., Detroit, and E. A. Rutenber, assignors to Gibson Refrigerator Company, Greenville, Mich. Combined top, back panel, and control accessories for a cooking range. 147,938; Nov. 18.
- Wingfoot Corporation, assignee: *See*—  
Kavenagh, William E.
- Winston, George, New York, N. Y. Child's animal toy or similar article. 147,210; July 22.
- Winston Sportswear Corporation, The, assignee: *See*—  
Newman, Hilda.
- Winterfeld, Elsie G., assignor to Three-In-One Doll Corporation, New York, N. Y. Doll. 147,707; Oct. 14.
- Winterfeld, Elsie G., assignor to Three-In-One Doll Corporation, New York, N. Y. Doll head. 147,708; Oct. 14.
- Winterfeld, Henry, New York, N. Y. Chest or the like. 147,482; Sept. 9.
- Wiser, Joseph A., Manhattan Beach, Calif. Service carriage. 146,241; Jan. 14.
- Wishbow, N., & Raphaels, Inc., assignee: *See*—  
Raphaels, Edwin.
- Witmond, Arthur H., New York, N. Y. Handbag or similar article. 147,572; Sept. 23.
- Witte, Isadore O., assignor to Le Vant Brush Company, Los Angeles, Calif. Hair brush or similar article. 147,097; July 8.
- Witte, Isadore O., assignor to Le Vant Brush Company, Los Angeles, Calif. Hairbrush or similar article. 147,709; Oct. 14.
- Witte, Isadore O., assignor to Le Vant Brush Company, Los Angeles, Calif. Hairbrush or similar article. 147,710; Oct. 14.
- Witte, Isadore O., assignor to Le Vant Brush Company, Los Angeles, Calif. Comb or similar article. 147,711; Oct. 14.
- Wolf, Helena, Hayward, Calif. Combination kitchen utensil tool. 147,773; Oct. 28.
- Wolf, Jack, Washington, D. C. Screen or the like. 146,933; June 10.
- Wolfe, Russell J., Buffalo, N. Y. Vacuum cleaner. 146,841; May 27.
- Wolff, Joseph C., Denver, Colo. Belt buckle. 146,205; Jan. 7.
- Wood, Albert and M., Port Washington, N. Y. Cabinet. 147,257; Aug. 5.
- Wood, Carlos C.: *See*—  
Burton, Edward F., and Wood.
- Wood, George R., assignor to Toledo Scale Company, Toledo, Ohio. Coffee mill. 147,170; July 15.
- Wood, J. B., Corporation, assignee: *See*—  
Tatro, Lysle G.
- Wood, Moyer: *See*—  
Wood, Albert and M.
- Woodson, Omer L., Los Angeles, Calif. Foot-propelled vehicle. 148,205; Dec. 23.
- Worley, Ernest W., Kansas City, Kans. Can opener. 147,098; July 8.
- Wormer, Clarkson C., III, Detroit, Mich. Automobile top. 147,001; June 24.
- Wright-Clark, Georgine H., Rye, N. Y. Coaster. 147,519; Sept. 16.
- Wright-Clark, Georgine H., Rye, N. Y. Coaster. 147,520; Sept. 16.
- Wright-Clark, Georgine H., Rye, N. Y. Coaster. 147,521; Sept. 16.
- Wright-Clark, Georgine H., Rye, N. Y. Coaster. 147,522; Sept. 16.
- Wright, John H., Philadelphia, Pa. Floating toy. 146,442; Mar. 4.
- Wright, Philip O., assignor to Packard Motor Car Company, Detroit, Mich. Lamp casing or similar article. 147,939; Nov. 18.
- Wunsch, Joseph W., Brooklyn, N. Y. Automotive crane body. 146,242; Jan. 14.
- Wurlitzer, Rudolph, Company, The, assignee: *See*—  
Fuller, Paul M.  
Zaiser, William.
- Wyatt, Bernard L., Los Angeles, Calif. Statuette. 147,740; Oct. 21.
- Yeager, Harry P.: *See*—  
Repp, Franklin J., Yeager, Robbin, and Robbin, Jr.
- Yost, Kermit D.: *See*—  
Snyder, Leland H., and Yost.
- Young, Theodore F., Attica, assignor to Scott Aviation Corporation, Lancaster, N. Y. Airplane control wheel. 147,712; Oct. 14.
- Zaiser, William, Rockville Centre, N. Y., assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Piano. 146,243; Jan. 14.
- Zaiser, William, Rockville Centre, N. Y., assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Piano. 146,888; June 3.
- Zaiser, William, Rockville Centre, N. Y., assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Piano. 146,889; June 3.
- Zaiser, William, Rockville Centre, N. Y., assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Piano. 146,890; June 3.
- Zaiser, William, Rockville Centre, N. Y., assignor to The Rudolph Wurlitzer Company, Chicago, Ill. Piano. 146,891; June 3.
- Zakwin, David D., Los Angeles, Calif. Bracelet or similar article. 147,224; July 29.



- Zasadny, Peter: *See*—  
Crosby, Stephen A., and Zasadny.
- Zavada, Frank J., Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation. Staircase. 147,099; July 8.
- Zavada, Frank J., Pittsburgh, Pa., assignor to Carnegie-Illinois Steel Corporation. Staircase. 147,100; July 8.
- Zegel, William P., assignor to Molded Products Company, New York, N. Y. Toy high chair. 46,820; May 20.
- Zeller, Albert, Jr., Detroit, Mich., assignor to Admiral Corporation, Chicago, Ill. Cooking stove. 147,940; Nov. 18.
- Zeller, Herbert J., Jr., Dundee, assignor to Stewart-Warner Corporation, Chicago, Ill. Radio receiver cabinet or similar article. 148,041; Dec. 2.
- Zelo Ware Corporation, assignee: *See*—  
Shyer, Joseph.
- Zenith Camera Corporation, assignee: *See*—  
Shayne, Irwin.
- Zenith Radio Corporation, assignee: *See*—  
Budlong, Robert D.  
De Young, Jack.  
Emde, Kurt, and Vernier.
- Zepp, William J., Yorktown Village, Md. Combination child's vehicle and parcel carrier. 146,695; Apr. 22.
- Ziegler, Ferdinand, Union, N. J. Bedstead. 147,941; Nov. 18.
- Ziegler, Ferdinand, Union, N. J. Bedstead. 147,942; Nov. 18.
- Ziegler, Ferdinand, Union, N. J. Bedstead. 147,943; Nov. 18.
- Ziegler, Ferdinand, Union, N. J. Bureau. 147,944; Nov. 18.
- Ziegler, Ferdinand, Union, N. J. Bureau. 147,945; Nov. 18.
- Ziegler, Ferdinand, Union, N. J. Bureau. 147,946; Nov. 18.
- Zimbelman, George W., Signal Mountain, Tenn. Heating radiator. 148,206; Dec. 23.
- Zimet, Ernest, New York, N. Y. Ear clip or similar article. 146,696; Apr. 22.
- Zimet, Ernest, New York, N. Y. Combined bracelet and watchcase. 147,827; Nov. 4.
- Zimmerman, Herman W., North Newington, Conn. Drink mixer. 146,782; May 13.
- Zimmerman, Robert E., Greensboro, N. C. Game board. 147,713; Oct. 14.
- Zimmermann, Willy E., and H. E. Weidanz, assignors to Standard Cap and Seal Corporation, Chicago, Ill. Container capping apparatus. 148,207; Dec. 23.
- Zimmern, Benno, New York, N. Y. Combined display stand and container. 147,947; Nov. 18.
- Zylo Ware Corporation, assignee: *See*—  
Shyer, Joseph.



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## LIST OF PLANT PATENTEES

- Adrey, Toufic A., Bull's Head, Staten Island, N. Y. Tabernaemontana plant. 742; July 8.
- Amling, Albert F. Co., assignee: *See*—Hildebrandt, John T.
- Barbier, Pierre, Orleans, France, assignor to Gulf Stream Nursery, Inc., Wachapreague, Va. Maple tree. 735; May 6.
- Baxter, Roy G., Youngstown, Ohio. Saintpaulia plant. 769; Dec. 16.
- Baxter, Roy G., Youngstown, Ohio. Saintpaulia plant. 770; Dec. 16.
- Bazzanella, Max, Mineral, Va. Apple tree. 722; Jan. 7.
- Boerner, Eugene S., assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 738; June 10.
- Boerner, Eugene S., assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 739; June 17.
- Bowman, Roy C., Youngstown, Ohio. Pear tree. 757; Sept. 2.
- Broadmoor Hotel, Inc., assignee: *See*—Hoyne, William A.
- Byrum, Roy L., assignor to Joseph H. Hill Company, Richmond, Ind. Rose plant. 749; July 29.
- Carter, Elvin H., Monterey Park, Calif. Camellia plant. 766; Nov. 18.
- Clarke, W. B., & Co., assignee: *See*—Clarke, Walter B.
- Clarke, Walter B., assignor to W. B. Clarke & Co., San Jose, Calif. Lilac plant. 754; Aug. 26.
- Clarke, Walter B., assignor to W. B. Clarke & Co., San Jose, Calif. Lilac plant. 768; Dec. 16.
- Columbia & Okanogan Nursery Company, assignee: *See*—Heider, Otto H.
- Conard-Pyle Company, The, assignee: *See*—De Vink, John.
- Mallerin, Charles.
- Meilland, Francis.
- Dauernheim, Inc., assignee: *See*—Dauernheim, Mel A.
- Dauernheim, Mel A., assignor to Dauernheim, Inc., Wantagh, N. Y. Azalea plant. 733; Apr. 1.
- Dauernheim, Mel A., assignor to Dauernheim, Inc., Wantagh, N. Y. Azalea plant. 734; Apr. 1.
- Denoyel, Marguerite, Venissieux, near Lyon, France, assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 725; Mar. 25.
- De Ruiter, Gerrit, Hazerswoude, Netherlands, assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 726; Mar. 25.
- De Ruiter, Gerrit, Hazerswoude, Netherlands, assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 745; July 22.
- De Ruiter, Gerrit, Hazerswoude, Netherlands, assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 746; July 22.
- De Vink, John, Boskoop, Netherlands, assignor to The Conard-Pyle Company, West Grove, Pa. Rose plant. 748; July 29.
- Eddie, H. M., and Sons Limited, assignee: *See*—Eddie Henry M.
- Eddie, Henry M., near Sardis, assignor to H. M. Eddie and Sons Limited, New Westminster County, British Columbia, Canada. Rose plant. 753; Aug. 19.
- Etter, Albert F., Ettersburg, assignor to G. C. Roeding, Jr., Niles, Calif. Apple tree. 723; Mar. 4.
- Etter, Albert F., Ettersburg, assignor to G. C. Roeding, Jr., Niles, Calif. Crab apple tree. 724; Mar. 4.
- Felten, Oscar E., East Merchantville, N. J. Strawberry plant. 761; Sept. 16.
- Gaujard, Jean Feyzin, France, assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 727; Mar. 25.
- Greiner, Charles A., Marlboro, N. Y. Pear tree. 728; Mar. 25.
- Grillo, Nicholas, Milldale, Conn. Rose plant. 762; Sept. 23.
- Gulf Stream Nursery, Inc., assignee: *See*—Barbier, Pierre.
- Hague, Phyllis R., West Hill, East York Township, Ontario, Canada, assignor to Jackson and Perkins Co., Newark, N. Y. Dianthus caryophyllus plant. 747; July 22.
- Heider, Otto H., Entiat, assignor to Columbia & Okanogan Nursery Company, Wenatchee, Wash. Apricot tree. 751; Aug. 12.
- Hildebrandt, John T., Melrose Park, assignor to Albert F. Amling Co., Maywood, Ill. Rose plant. 755; Aug. 26.
- Hill, E. G., Company, The, assignee: *See*—Jelly, Robert G.
- Hill, Joseph H., Company, assignee: *See*—Byrum, Roy L.
- Hoyne, William A., assignor to Broadmoor Hotel, Inc., Colorado Springs, Colo. Carnation plant. 771; Dec. 16.
- Jackson & Perkins Company, assignee: *See*—Boerner, Eugene S.
- Denoyel, Marguerite.
- De Ruiter, Gerrit.
- Gaujard, Jean.
- Hague, Phyllis R.
- Johnston, Walter I.
- Naungayan, Antonio.
- Van Rossem, Gerard A.
- Jelly, Robert G., assignor to The E. G. Hill Company, Richmond, Ind. Rose plant. 737; June 10.
- Johnston, Walter I., Portadown, Ireland, assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 758; Sept. 2.
- King, Richard H., Sheffield, Ala., assignor to Stark Bros. Nurseries and Orchards Company, Louisiana, Mo. Nectarine plant. 759; Sept. 2.
- Krebs, Alfred, Montebello, assignor of one-half to E. E. Marsh, Pasadena, Calif. Rose plant. 752; Aug. 19.
- Krowka, M & J, assignee: *See*—Krowka, Michael.
- Krowka, Michael, assignor to M & J Krowka, Des Plaines, Ill. Rose plant. 743; July 8.
- Legendre, Jacques L., Wachapreague, Va. Phlox plant. 756; Aug. 26.
- MacKelvie, Arthur D., assignee: *See*—Moritz, Arthur.
- Mallerin, Charles, Varces, France, assignor to The Conard-Pyle Company, West Grove, Pa. Rose plant. 729; Mar. 25.
- Mallerin, Charles, Varces, France, assignor to The Conard-Pyle Company, West Grove, Pa. Rose plant. 730; Mar. 25.
- Malmö, Clark P., Seattle, Wash. Pentstemon plant. 744; July 22.
- Marmon, Louis J., assignor to Louis J. Marmon Company, Springfield, N. J. Carnation plant. 767; Nov. 25.
- Marmon, Louis J., Company, assignee: *See*—Marmon, Louis J.
- Marsh, Edward E., assignee: *See*—Kreb, Alfred.
- Meilland, Francis, Tassin-les-Lyon, France, assignor to The Conard-Pyle Company, West Grove, Pa. Rose plant. 731; Mar. 25.
- Meyer, Ottilie R., Cedarburg, Wis., assignor to Stark Bros. Nurseries and Orchards Company, Louisiana, Mo. Cherry tree. 764; Oct. 7.
- Moritz, Arthur, assignor to A. D. MacKelvie, Zillah, Wash. Pear tree. 741; July 1.
- Naungayan, Antonio, Pleasanton, Calif., assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 736; May 13.
- Niedfeldt, Carl J., Wauwatosa, Wis. Nephrolepis plant. 772; Dec. 16.
- Ohl, Earl C., Findlay, Ohio, assignor to Stark Bros. Nurseries and Orchards Company, Louisiana, Mo. Apple tree. 765; Oct. 14.
- Pearson, John W., Lee Pope, Ga. Peach tree. Sept. 9.
- Premier Rose Gardens, Consolidated, The, assignee: *See*—Wiltgen, Joseph E.
- Roeding, George C. Jr., assignee: *See*—Etter, Albert F.
- Rutenschroer, John C., Cincinnati, Ohio. Nephthytis plant. 763; Sept. 23.
- Sherwood, Lawrence W., Fullerton, Calif. Avocado tree. 773; Dec. 30.
- Stark Bros. Nurseries and Orchards Company, assignee: *See*—King, Richard H.
- Meyer, Ottilie R.
- Ohl, Earl C.
- Symonds, Henry J., Decorah, Iowa. Carnation plant. 750; July 29.
- Van Rossem, Gerard A., Naarden, Netherlands, assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 732; Mar. 25.
- Wiltgen, Joseph E., Park Ridge, assignor to The Premier Rose Gardens, Consolidated, Des Plaines, Ill. Rose plant. 740; July 1.







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## LIST OF DISCLAIMERS

- Amory, Robert, Milton, Mass. Disclaimer filed by the assignee, Nashua Manufacturing Company. No. 2,208,533; disclaimer filed Jan. 2, 1947; v. 594; p. 424.
- Baird, Clyde W., Columbus, Ohio. Disclaimer filed by the inventor. No. 2,370,388; disclaimer filed Jan. 2, 1947; v. 595; p. 302.
- Barkeij, Jean A. H., Altadena, Calif. (Two cases.) Disclaimers filed by the inventor. Nos. 2,145,577 and 2,191,746; disclaimers filed Mar. 17, and Mar. 24, 1947; v. 598; pp. 10 and 332.
- Barrett, Harry B., St. Louis, Mo. Disclaimer filed by the inventor. No. 2,187,962; disclaimer filed July 16, 1947; v. 601; p. 152.
- Bicknell, George R., Antioch, and Fred A. Heidenfelder, Chicago, Ill. Disclaimer filed by the assignee, The American Laundry Machinery Company. No. 2,365,448; disclaimer filed July 18, 1947; v. 601; p. 332.
- Bloomer, Ward J., Westfield, N. J. Disclaimer filed by the assignee, The Lummus Company. No. 2,380,019; disclaimer filed Nov. 27, 1946; v. 594; p. 1.
- Blount, Frank E., Cedar Grove, N. J. Disclaimer filed by the assignee, Bell Telephone Laboratories, Incorporated. No. 2,355,903; disclaimer filed Oct. 31, 1947; v. 605; p. 178.
- Borden, Perry A., Waterbury, Conn. Disclaimer filed by the assignee, The Bristol Company. No. 2,368,701; disclaimer filed Mar. 18, 1947; v. 597; p. 306.
- Bradley, Herbert N., Detroit, Mich. Disclaimer filed by Evelyn B. Bradley, administratrix of the estate of Herbert N. Bradley, deceased. No. 2,317,438; disclaimer filed May 19, 1947; v. 599; p. 538.
- Brandt, Francis L., Marblehead, Mass. Disclaimer filed by the assignee, United Shoe Machinery Corporation. No. 2,286,195; disclaimer filed May 6, 1947; v. 599; p. 11.
- Brosius, Edgar E., Pittsburgh, Pa. Disclaimer filed by the inventor; the assignee, Edgar E. Brosius Company, Inc., consenting and concurring. No. 2,393,307; disclaimer filed Apr. 10, 1947; v. 598; p. 332.
- Brown, Cicero C., Houston, and Robert L. Carruthers, Beaumont, Tex. Disclaimer filed by the assignee, Cicero C. Brown. No. 2,291,143; disclaimer filed Mar. 6, 1947; v. 597; p. 150.
- Chevigny, Georges P., New York, N. Y. Disclaimer filed by the assignee, International Standard Electric Corporation. No. 2,333,295; disclaimer filed Jan. 16, 1947; v. 595; p. 302.
- Clausen, Henry P., White Plains, N. Y. (Two cases.) Disclaimers filed by the inventor; the assignee, The Gray Manufacturing Company, assenting. Nos. 2,354,739 and 2,375,525; disclaimers filed Dec. 10, 1946; v. 594; p. 1.
- Cole, Harry W., New Rochelle, and Malcolm W. McLaren, Jackson Heights, N. Y. Disclaimer filed by the inventors and the assignee, International Carbonic Engineering Company. No. 2,025,698; disclaimer filed Jan. 14, 1947; v. 595; p. 302.
- Crowell, Erd V., Los Angeles, Calif. Disclaimer filed by the inventor. No. 2,177,172; disclaimer filed Feb. 19, 1947; v. 597; p. 150.
- Crowell, Erd V., Glendale, Calif. Disclaimer filed by the inventor. No. 2,223,442; disclaimer filed Feb. 19, 1947; v. 597; p. 150.
- Cruikshank, George A., Riverside, R. I. Disclaimer filed by the assignee, Johnson & Johnson. No. 2,327,250; disclaimer filed Oct. 15, 1947; v. 605; p. 178.
- Currie, Frank L., Plainfield, N. J., and Charles F. Stearns, Oceanside, N. Y. Disclaimer filed by the assignee, The Western Union Telegraph Company. No. 2,390,517; disclaimer filed July 31, 1947; v. 602; p. 512.
- Davis, Charles C., Detroit, Mich. Disclaimer filed by the assignee, The Timken-Detroit Axle Company. No. 2,307,394; disclaimer filed Feb. 13, 1947; v. 596; p. 144.
- Dotterweich, Andrew J., Pittsburgh, Pa. Disclaimer filed by the assignee, The Permutit Company. No. 1,954,405; disclaimer filed Apr. 26, 1947; v. 598; p. 451.
- Durant, Walter W., Old Greenwich, and William A. Blann, Stamford, Conn. Disclaimer filed by the assignee, American Cyanamid Company. No. 2,404,367; disclaimer filed June 28, 1947; v. 601; p. 8.
- Du Sang, Virgil L., Kokomo, Ind. Disclaimer filed by the assignee, Turner Manufacturing Company. No. 2,029,561; disclaimer filed July 23, 1947; v. 601; p. 527.
- Edgar, Donald E., Philadelphia, and Paul Robinson, Llanerch, Pa. Disclaimer filed by the assignee, E. I. du Pont de Nemours & Company. No. 2,191,957; disclaimer filed June 20, 1947; v. 600; p. 505.
- Edmister, Wayne C., Flossmoor, Ill. Disclaimer filed by the assignee, Standard Oil Company. No. 2,378,542; disclaimer filed July 7, 1947; v. 601; p. 152.
- Eitel, William W., and Jack A. McCullough, San Bruno, Calif. Disclaimer filed by the assignee, Eitel-McCullough, Inc. No. 2,400,080; disclaimer filed Dec. 20, 1946; v. 594; p. 295.
- Eitel, William W., San Bruno, and Jack A. McCullough, Millbrae, Calif. Disclaimer filed by the assignee, Eitel-McCullough, Inc. No. 2,401,059; disclaimer filed Dec. 20, 1946; v. 594; p. 295.
- Elmer, William B., Winchester, Mass. Disclaimer filed by the inventor. No. 2,182,048; disclaimer filed Mar. 13, 1947; v. 597; p. 150.
- Engel, George C., Ridgewood, N. J., Leslie S. Lynch, Jr., Flushing, N. Y., and Frank L. Eidmann, deceased, late of Princeton, N. J., by Ethel I. Eidmann, executrix. Disclaimer filed by the assignee, General Time Instruments Corporation. No. 2,392,467; disclaimer filed May 8, 1947; v. 599; p. 348.
- Essig, Sanford F., Fort Wayne, Ind. Disclaimer filed by the inventor; the assignee, Farnsworth Television & Radio Corporation, approving and consenting. No. 2,407,485; disclaimer filed July 30, 1947; v. 601; p. 527.
- Evans, Ralph L., Bay Shore, and Everett G. McDonough, Yonkers, N. Y. Disclaimer filed by the assignee, Sales Affiliates, Inc. No. 2,352,524; disclaimer filed Feb. 6, 1947; v. 596; p. 8.
- Faulk, Donald P., Pittsburgh, Pa. (Two cases.) Disclaimers filed by the assignee, Westinghouse Electric Corporation, formerly Westinghouse Electric & Manufacturing Company. Nos. 2,300,538 and 2,300,539; disclaimers filed Nov. 12, 1947; v. 605; p. 720.
- Ferris, Malcolm, Boonton, N. J. Disclaimer filed by the assignee, Ferris Instrument Corporation. No. 2,265,637; disclaimer filed Mar. 27, 1947; v. 597; p. 606.
- Fletcher, John R., and Robert S. Phair, Philadelphia, Pa. Disclaimer filed by the assignee, The Budd Company. No. 2,394,903; disclaimer filed Aug. 20, 1947; v. 602; p. 512.
- Fichter, Ludwig J., Dayton, Ohio, and Bertram A. Schwarz, Kokomo, Ind. Disclaimer filed by the inventors; the assignee, General Motors Corporation, joining in. No. 2,362,690; disclaimer filed Apr. 12, 1947; v. 598; p. 164.
- Finlay, Walter L., Fairfield, and Gilbert E. Hutchinson, Bridgeport, Conn. Disclaimer filed by the assignee, Remington Arms Company, Inc. No. 2,398,298; disclaimer filed May 17, 1947; v. 599; p. 164.
- Fulton, Oliver H., Jr., Montclair, N. J. Disclaimer filed by the assignee, Radio Corporation of America. No. 2,396,170; disclaimer filed Jan. 28, 1947; v. 595; p. 472.
- Gaugler, Richard S., Dayton, Ohio. Disclaimer filed by the assignee, General Motors Corporation. No. 2,350,347; disclaimer filed Mar. 17, 1947; v. 597; p. 306.
- Greer, Millard M., Carnegie, Pa. Disclaimer filed by the assignee, Edwin L. Wiegand Company. No. 2,274,445; disclaimer filed Sept. 16, 1947; v. 603; p. 541.
- Greneker, Lillian L., New York, N. Y. Disclaimer filed by the inventor. No. 2,369,892; disclaimer filed June 19, 1947; v. 600; p. 505.
- Halstead, William S., Huntington, N. Y. Disclaimer filed by the inventor; the assignee, Farnsworth Television & Radio Corporation, approving and consenting. No. 2,385,701; disclaimer filed Aug. 19, 1947; v. 602; p. 362.
- Hill, Lawrence R., Forest Hills, Pa. Disclaimer filed by the assignee, Westinghouse Electric Corporation. No. 2,320,866; disclaimer filed Dec. 13, 1946; v. 594; p. 152.
- Hitchcock, Rex B., Evanston, and William C. Rosenthal, Chicago, Ill. Disclaimer filed by the assignee, International Harvester Company. No. 2,376,539; disclaimer filed Mar. 19, 1947; v. 597; p. 459.
- Hobbs, Walter V., Columbus, Ohio. Disclaimer filed by the assignee, Ranco Incorporated. No. 2,388,542; disclaimer filed July 19, 1947; v. 601; p. 527.
- Hooser, Donald B., Dallas, Tex. Disclaimer filed by the assignee, The Guiberson Corporation. No. 2,392,244; disclaimer filed Oct. 31, 1947; v. 605; p. 179.
- Hunt, George R., Akron, Ohio. Disclaimer filed by the inventor; the licensee, Conrad B. Mueller, assenting. No. 2,300,157; disclaimer filed Feb. 26, 1947; v. 596; p. 447.
- Hyde, James F., Corning, N. Y. Disclaimer filed by the assignee, Corning Glass Works. No. 2,413,049; disclaimer filed Apr. 8, 1947; v. 598; p. 10.
- Iverson, John O., Chicago, Ill. Disclaimer filed by the assignee, Universal Oil Products Company. No. 2,378,636; disclaimer filed July 11, 1947; v. 601; p. 527.
- Johnson, Lambert D., Nathan F. True, and Harry H. Engel, Evansville, Ind. Disclaimer filed by the assignee, Mead Johnson & Company. No. 1,990,329; disclaimer filed July 15, 1947; v. 601; p. 332.



- Kelly, Walter A., Paterson, N. J. Disclaimer filed by the assignee, Magnolia Petroleum Company. No. 2,266,556; disclaimer filed Oct. 27, 1947; v. 605; p. 371.
- Kendrick, Charles M., New York, N. Y. Disclaimer filed by the assignee, Manly Corporation. No. 2,304,831; disclaimer filed Dec. 26, 1946; v. 595; p. 302.
- Keuffel, Adolf W., Montclair, and George L. Henzel, Lyndhurst, N. J. Disclaimer filed by the inventors and the assignee, Keuffel & Esser Company. No. 2,354,756; disclaimer filed Jan. 23, 1947; v. 596; p. 289.
- Kittredge, Linus E., Port Washington, N. Y. Disclaimer filed by the assignee, Bell Telephone Laboratories, Incorporated. No. 2,370,736; disclaimer filed Mar. 5, 1947; v. 597; p. 150.
- Kleinschmidt, Edward E., Highland Park, Ill. Disclaimer filed by the assignee, Teletype Corporation. Re. No. 22,723; disclaimer filed Apr. 14, 1947; v. 598; p. 164.
- Labombarde, Harold S., Nashua, N. H. Disclaimer filed by the assignee, The International Paper Box Machine Company. No. 2,391,170; disclaimer filed Apr. 16, 1947; v. 598; p. 332.
- Larsen, Robert G., Albany, and Hyman Diamond, Berkeley, Calif. Disclaimer filed by the assignee, Shell Development Company. No. 2,375,007; disclaimer filed Apr. 7, 1947; v. 598; p. 10.
- Leighton, Albert, New York, N. Y. Disclaimer filed by the inventor. No. 1,986,508; disclaimer filed June 30, 1947; v. 600; p. 665.
- Leishman, Le Roy J., Los Angeles, Calif. Disclaimer filed by the inventor. No. 2,162,282; disclaimer filed Dec. 28, 1946; v. 594; p. 424.
- Lindsay, Charles H., and Alexander E. Weaver, Elmira, N. Y. Disclaimer filed by the assignee, American-La France-Foamite Corporation. No. 2,399,553; disclaimer filed Feb. 18, 1947; v. 596; p. 289.
- Long, Spencer W., Inglewood, Calif. Disclaimer filed by the assignee, Baash-Ross Tool Company. No. 2,306,130; disclaimer filed Oct. 10, 1947; v. 604; p. 398.
- Lum, Walter O., Schenectady, N. Y. Disclaimer filed by the assignee, General Electric Company. No. 1,944,988; disclaimer filed Jan. 15, 1947; v. 595; p. 302.
- Mabon, Carl R., Niagara Falls, N. Y. Disclaimer filed by the assignee, Moore Business Forms, Inc. No. 2,208,994; disclaimer filed July 24, 1947; v. 602; p. 512.
- Mahoney, John R., Pittsburgh, and Harry J. Bichsel, Forest Hills, Pa. Disclaimer filed by the assignee, Westinghouse Electric Corporation, formerly Westinghouse Electric & Manufacturing Company. No. 2,404,971; disclaimer filed May 24, 1947; v. 599; p. 538.
- Manning, Fred W., Palo Alto, Calif. (Two cases.) Disclaimers filed by the inventor. Nos. 2,336,743 and 2,336,745; disclaimers filed Nov. 20, 1947; v. 605; p. 371.
- Mantz, Harold A., Milwaukee, Wis. Disclaimer filed by the assignee, Milwaukee Gas Specialty Company; the inventor, assenting. No. 2,340,197; disclaimer filed May 22, 1947; v. 599; p. 347.
- Marshall, William A., Jr., Oak Park, Ill. Disclaimer filed by the assignee, Stewart-Warner Corporation. No. 2,381,358; disclaimer filed Oct. 2, 1947; v. 604; p. 225.
- Metzger, Floyd J., New York, N. Y. Disclaimer filed by the inventor, the assignee, Air Reduction Company, Incorporated, assenting. No. 2,376,070; disclaimer filed Nov. 4, 1947; v. 605; p. 178.
- Mouroumteff, Ilya E., Montclair, and George M. Dinnick, Bloomfield, N. J. (Two cases.) Disclaimers filed by the assignee, Westinghouse Electric Corporation. Nos. 2,360,707 and 2,366,802; disclaimers filed May 16 and Sept. 25, 1947; v. 599; p. 348; and v. 603; p. 541.
- Mulcahy, Edwin C., St. Louis, Mo. Disclaimer filed by the assignee, Maloney Electric Company. No. 2,374,449; disclaimer filed May 22, 1947; v. 599; p. 538.
- Murphy, John F., Fitchburg, Mass. Disclaimer filed by the assignee, Lever Brothers Company. No. 2,361,411; disclaimer filed Oct. 7, 1947; v. 604; p. 225.
- Myerson, Simon, Brookline, Mass. (Two cases.) Disclaimers filed by the inventor. Nos. 2,202,713 and Re. 22,331; disclaimers filed Mar. 28, 1947; v. 597; p. 606.
- Netherly, George P., and Bert S. Cross, St. Paul, Minn., and Gilbert R. Anderson, Wilmington, Del. Disclaimer filed by the assignee, Minnesota Mining & Manufacturing Company. No. 2,357,348; disclaimer filed July 18, 1947; v. 601; p. 527.
- Palmquist, Philip V., Minneapolis, Minn. Disclaimer filed by the assignee, Minnesota Mining & Manufacturing Company. No. 2,354,048; disclaimer filed Jan. 15, 1947; v. 596; p. 8.
- Partee, Watkins W., and Milton Gray, Memphis, Tenn. Disclaimer filed by the assignee, E. L. Bruce Co. No. 2,341,161; disclaimer filed Sept. 22, 1947; v. 603; p. 541.
- Paul, Philip T., Naugatuck, Conn. Disclaimer filed by the assignee, United States Rubber Company. No. 2,363,687; disclaimer filed Jan. 14, 1947; v. 595; p. 302.
- Peterson, Edward S., Elmwood Park, Ill. Disclaimer filed by the assignee, Automatic Electric Laboratories, Inc.; the inventor assenting. No. 2,239,902; disclaimer filed Mar. 27, 1947; v. 597; p. 606.
- Puetzer, Bruno, New Rochelle, N. Y. Disclaimer filed by the assignee, Vick Chemical Company. No. 2,397,903; disclaimer filed Aug. 22, 1947; v. 603; p. 20.
- Rohrig, Ignatius A., and Norman A. Kerstein, Detroit, Mich. Disclaimer filed by the inventors. No. 2,382,666; disclaimer filed Jan. 31, 1947; v. 596; p. 8.
- Ruth, Roger A., Rochester, N. Y. Disclaimer filed by the assignee, Eastman Kodak Company; the inventor assenting. No. 2,378,249; disclaimer filed June 11, 1947; v. 600; p. 335.
- Schwarzkopf, Paul, Yonkers, N. Y. (Four cases.) Disclaimers filed by the assignee, American Cutting Alloys, Inc. Reissues Nos. 22,073, 22,074, 22,166 and 22,207; disclaimers filed Jan. 15, 1947; v. 595, pp. 145 and 146.
- Schwarzkopf, Paul, Yonkers, N. Y. Disclaimer filed by the assignee, American Cutting Alloys, Inc. No. 2,356,009; disclaimer filed Jan. 15, 1947; v. 595; p. 146.
- Seidentopf, Heinz A., St. Paul, Minn. Disclaimer filed by the inventor; the assignee, Fromm Laboratories, Inc., assenting. No. 2,380,339; disclaimer filed Nov. 26, 1947; v. 605; p. 720.
- Szegho, Constantin S., Chicago, Ill. Disclaimer filed by the inventor; the assignee, The Rauland Corporation, assenting. No. 2,401,985; disclaimer filed Jan. 20, 1947; v. 595; p. 472.
- Thomas, Charles L., Chicago, Ill. Disclaimer filed by the assignee, Universal Oil Products Company. No. 2,387,477; disclaimer filed July 11, 1947; v. 601; p. 527.
- Thompson, Albert L., South Bend, Ind. Disclaimer filed by the assignee, Bendix Aviation Corporation. No. 2,410,758; disclaimer filed Aug. 29, 1947; v. 603; p. 20.
- Thompson, Elihu C., Boston, Mass. Disclaimer filed by the assignee, Combustion Control Corporation. No. 2,416,781; disclaimer filed Oct. 23, 1947; v. 605; p. 20.
- Truesdell, Francis W., Marblehead, Mass. Disclaimer filed by the assignee, General Electric Company. No. 2,358,363; disclaimer filed Mar. 18, 1947; v. 597; p. 306.
- Ulrich, Frederick, Bayonne, N. J. Disclaimer filed by the assignee, Conmar Products Corporation. No. 2,221,740; disclaimer filed Aug. 8, 1947; v. 602; p. 512.
- Varian, Russell H., Stanford University, Calif. Disclaimer filed by the inventor; the assignee, Board of Trustees of the Leland Stanford, Jr., University, concurring. No. 2,242,275; disclaimer filed Aug. 5, 1947; v. 602; p. 512.
- Vischer, Alfred, Jr., Park Ridge, Ill. Disclaimer filed by the assignee, Flex-Seal Corporation. No. 2,301,724; disclaimer filed Aug. 27, 1947; v. 602; p. 676.
- Wahlstrand, Harold A., Chicago, Ill. Disclaimer filed by the inventor; the assignee, Teletype Corporation, concurring. No. 2,390,672; disclaimer filed Nov. 15, 1946; v. 596; p. 289.
- Walker, Cranford P., San Marino, Calif. Disclaimer filed by the inventor. No. 2,156,519; disclaimer filed Feb. 4, 1947; v. 596; p. 144.
- Wantz, Clarence, Milwaukee, Wis. Disclaimer filed by the assignee, Milwaukee Gas Specialty Company; the inventor assenting. No. 2,372,537; disclaimer filed May 22, 1947; v. 599; p. 538.
- White, Ellis R., Albany, Calif. Disclaimer filed by the assignee, Shell Development Company. No. 2,368,607; disclaimer filed July 5, 1947; v. 601; p. 8.
- Wilcox, Harry L., Cleveland, Ohio. Disclaimer filed by the assignee, The Electric Controller & Manufacturing Company. No. 2,233,501; disclaimer filed Sept. 23, 1947; v. 603; p. 541.
- Willard, Waldo W., Schenectady, N. Y. Disclaimer filed by the assignee, General Electric Company. No. 2,408,356; disclaimer filed Mar. 11, 1947; v. 597; p. 150.
- Williams, Albert J., Jr., Philadelphia, Pa. Disclaimer filed by the assignee, Leeds and Northrup Company. No. 2,113,164; disclaimer filed June 2, 1947; v. 600; p. 175.
- Williams, Lynn A., Jr., Northfield, and Henry J. De N. McCollum, Chicago, Ill. Disclaimer filed by the assignee, Stewart-Warner Corporation. No. 2,418,682; disclaimer filed Oct. 28, 1947; v. 605; p. 179.
- Wilson, Harold M., Attleboro, Mass. Disclaimer filed by the assignee, Metals & Controls Corporation. No. 2,338,474; disclaimer filed Feb. 14, 1947; v. 596; p. 144.
- Wilson, John C., Bayside, N. Y. Disclaimer filed by Charles E. Dean, administrator of John C. Wilson, deceased, the assignee, Hazeltine Research, Inc., assenting. No. 2,295,443; disclaimer filed Mar. 27, 1947; v. 597; p. 606.
- Wing, Wallace E., Chicago, Ill. Disclaimer filed by the assignee, Marblehead Lime Company. No. 2,386,027; disclaimer filed Aug. 2, 1947; v. 601; p. 527.
- Winther, Martin P., Waukegan, Ill. Disclaimer filed by the patentee. No. 2,367,163; disclaimer filed Aug. 13, 1947; v. 602; p. 512.
- Wittenberg, Edward H., Eau Claire, Wis. Disclaimer filed by the assignee, National Pressure Cooker Company. No. 2,218,188; disclaimer filed Jan. 18, 1947; v. 595; p. 472.
- Wolfram, John N., Cleveland, Ohio. Disclaimer filed by the assignee, The Parker Appliance Company. No. 2,304,390; disclaimer filed Jan. 28, 1947; v. 596; p. 144.
- Woods, Arthur P., Detroit, Mich. Disclaimer filed by the assignee, The Timken-Detroit Axle Company. No. 2,305,835; disclaimer filed Feb. 13, 1947; v. 596; p. 144.



# 1947

## LIST OF INVENTIONS

This list includes reissue inventions.

- Abdominal support. J. L. Holt. 2,426,931; Sept. 2.
- Abrading. C. A. Ellis and L. A. Severy. 2,419,543; Apr. 29.
- Abrading machine. F. D. Johnson. 2,431,939; Dec. 2.
- Abrading machine for chamfering gears. R. M. Upton. 2,430,375; Nov. 4.
- Abrading tool. P. J. Greulach. 2,429,752; Oct. 28.
- Abrading tool. J. Pavlovic. 2,415,367; Feb. 4.
- Abrasion resistance, Testing. T. O. Brandon. 2,414,439; Jan. 21.
- Abrasive. S. S. Kistler and L. Coes, Jr. 2,417,419; Mar. 18.
- Abrasive and making the same, Bonded. R. H. Rushmer. 2,413,729; Jan. 7.
- Abrasive articles. C. E. Drake. 2,418,249-50; Apr. 1.
- Abrasive articles and making. G. J. Goepfert and H. W. Buell. 2,431,035; Nov. 18.
- Abrasive articles and making the same, Resin bonded. S. S. Kistler. 2,416,182; Feb. 18.
- Abrasive articles and manufacturing the same, Coated. H. P. Kirchner. 2,431,258; Nov. 18.
- Abrasive articles, Making. M. F. Beecher. 2,424,140; July 15.
- Abrasive belt grinding device. J. I. Carlsson. 2,433,427; Dec. 30.
- Abrasive belt polishing machine. E. E. Murray. 2,431,822; Dec. 2.
- Abrasive blasting. P. J. Potter. 2,421,849; June 10.
- Abrasive composition and forming same. H. Kott and M. Yawitz. Re. 22,854; Mar. 18.
- Abrasive, Embrittled silver solder bonded. A. Stern. 2,418,529; Apr. 8.
- Abrasive head. E. H. Bradley. 2,430,099; Nov. 4.
- Abrasive manufacture. J. A. Williamson. 2,418,282; Apr. 1.
- Abrasive materials, Manufacture of. S. W. Dronsfield. 2,426,441; Aug. 26.
- Abrasive, Metal bonded. A. W. Liger. 2,427,565; Sept. 16.
- Abrasive sheet holder. J. Dispensiere. 2,428,618; Oct. 7.
- Abrasive strip holder. E. V. Miller. 2,424,702; July 29.
- Abrasive supply system. C. M. Gossard. 2,414,038; Jan. 7.
- Abrasive tools, Making metal bonded. S. J. Everett. 2,414,226; Jan. 14.
- Abrasive wheel. R. B. Scrimgeour. 2,414,981; Jan. 28.
- Abrasive wheel. C. E. Wilson. 2,425,502; Aug. 12.
- Abrasive wheels, Making. A. C. Ciell. 2,423,293; July 1.
- Abrasives, Rubber bonded. G. Van Nimwegen, C. von Doenhoff, and C. E. Wooddell. 2,422,153; June 10.
- Absolute altitude, Method and apparatus for determining. L. de Forest. 2,421,248; May 27.
- Absorber and revaporizer, Fuel. E. J. Wulforst. 2,430,841; Nov. 11.
- Absorber, Vibration. H. J. Rudolph. 2,429,297; Oct. 21.
- Abutment for jacks, Wheel. C. H. Stevens. 2,422,144; June 10.
- Abutment unit for rotary displacement pumps or motors, Sliding. H. Jeffries. 2,425,244; Aug. 5.
- Accelerating pump. H. A. Carlson. 2,430,492; Nov. 11.
- Accelerator control, Dual. A. E. Forssell. 2,427,269; Sept. 9.
- Accelerator of vulcanization. A. J. Beber. 2,426,855; Sept. 2.
- Accelerator, Vulcanization. E. B. Curtis. 2,421,243; May 27.
- Accelerators for natural synthetic rubber, Vulcanization. E. W. Cook and E. O. Hook. 2,421,544; June 3.
- Accessory for fishing rods. L. J. Rosa. 2,424,419; July 22.
- Accordion fold end-closure means for flexible pocket receptacles. D. J. Broughton. 2,432,557; Dec. 16.
- Accordion folded paper garment bag. A. C. Johnston. 2,432,524; Dec. 16.
- Accordion shift mechanism. A. J. Walt. 2,432,184; Dec. 9.
- Accordion shift mechanism. A. J. Walt. 2,433,310; Dec. 23.
- Accumulator. M. W. Huber. 2,417,873; Mar. 25.
- Accumulator. T. B. Linton. 2,421,076; May 27.
- Accumulator charging system. G. Winkler. 2,423,134; July 1.
- Accumulator, Hydropneumatic. W. Messinger. 2,426,320; Aug. 26.
- Accumulator pump. A. Kaltinsky. 2,414,261; Jan. 14.
- Accumulator system. G. A. Goepfrich. 2,414,593; Jan. 21.
- Acetal compounds. J. E. Bludworth and D. P. Easter. 2,421,770; June 10.
- Acetals of nitro alcohols. M. Senkus. 2,415,046; Jan. 28.
- Acetals of pyruvic aldehyde. H. R. Guest, L. G. MacDowell, and R. W. McNamee. 2,421,559; June 8.
- Acetone and acetate esters, Preparing. D. C. Hull and A. H. Agett. 2,422,016; June 10.
- Acetone ketals, Preparation of. M. Senkus. 2,419,505; Apr. 22.
- Acetonitrile by decantation and distillation, Dehydration of. C. H. Dale. 2,417,862; Mar. 25.
- Acetonitrile, Production of. J. E. Mahan. 2,432,532; Dec. 16.
- Acetylation of  $\beta$ -ketonic compounds. A. B. Boese, Jr. 2,432,499; Dec. 16.
- Acetylation of lignocellulosic board materials. A. J. Stamm and H. Tarkow. 2,417,995; Mar. 25.
- Acetylene, Concentration of. R. M. Isham. 2,424,987; Aug. 5.
- Acetylene from calcium carbide and water, Generation of. H. Holler and O. Mues. 2,422,623; June 17.
- Acetylene generation. A. H. Andersen, M. Eaton, and A. C. Holm. 2,415,328; Feb. 4.
- Acetylene, Storage of. M. O'Brian and E. R. Biggins. 2,422,251; June 17.
- Acid alkylation of isoparafins. A. R. Goldsby. 2,420,369; May 13.
- Acid, and its preparation, Tetraacetyl ribonic. K. Ladenburg, R. Babson, and M. Tishler. 2,429,937; Oct. 28.
- Acid as catalysts for the polymerization of butadiene-1,3 hydrocarbons, Ureides of glyoxylic and glycollic. W. D. Stewart. 2,430,591; Nov. 11.
- Acid as selective solvent in oxidation of naphthenes, Nitric. T. F. Doumani. 2,420,938; May 20.
- Acid compounds with chlorite and aldehyde, Bleaching fatty. C. A. Hampel. 2,430,675; Nov. 11.
- Acid esters, Isomerized fatty. L. Auer. 2,418,454; Apr. 8.
- Acid esters of oxyalkylated polymerized hydroxyamines, Certain dicarboxy. M. DeGroot and B. Keiser. 2,430,004; Nov. 4.
- Acid extraction of isobutylene from hydrocarbon mixtures, Sulfuric. J. W. Packie and W. H. Rupp. 2,424,186; July 15.
- Acid-fading on dyed cellulose acetate with N:N' diphenylethylene, Inhibition of. B. Collie, C. H. Giles, and D. G. Wilkinson. 2,416,380; Feb. 25.
- Acid from butyrolactone, Electrolytic production of succinic. R. M. Isham. 2,420,954; May 20.
- Acid in photographic developing solutions, Ascorbic. A. Weissberger and H. A. Kurtzner. 2,415,666; Feb. 11.
- Acid, Manufacture of sulfamic. H. R. Wilson. 2,419,618; Apr. 29.
- Acid of the norpinane series. J. P. Bain. 2,427,344; Sept. 16.
- Acid olefin absorption, Sulfuric. H. J. Hibshman and I. P. Jones. 2,428,668; Oct. 7.
- Acid phosphates, Ammoniating. E. D. Crittenden. 2,415,464; Feb. 11.
- Acid polyamine soaps, Higher fatty. J. M. Johnson. 2,419,404; Apr. 22.
- Acid potassium fluoride, Purification of. P. R. Johnson. 2,422,907; June 24.
- Acid, Producing pantothenic. D. T. Rogers. 2,418,902; Apr. 15.
- Acid, Production of acrylic. C. E. Rehberg and C. H. Fisher. 2,413,889; Jan. 7.
- Acid, Production of anhydrous fluoro-phosphoric. W. Lange and R. Livingston. 2,423,895; July 15.
- Acid, Production of dihydroxyfluoboric. W. E. White. 2,429,147; Oct. 14.
- Acid, Production of tartaric. W. E. Barch. 2,417,230; Mar. 11.
- Acid, Purification of hydrochloric. W. S. Allen. 2,426,914; Sept. 2.
- Acid, Purification of lactic. E. M. Filachione and C. H. Fisher. 2,420,234; May 6.
- Acid, Reconditioning of olefin hydration. H. O. Mottern. 2,414,759; Jan. 21.
- Acid, Recovery of vanillic. I. A. Pearl. 2,431,419; Nov. 25.
- Acid resistant alloy. W. B. Sullivan and J. W. Juppenthalz. 2,423,665; July 8.
- Acid sludge, Conditioning sulphuric. E. F. Wadley and J. T. Horeczy. 2,425,584; Aug. 12.
- Acid sludges, Method and apparatus for hydrolizing. J. E. McKee. 2,415,650; Feb. 11.
- Acid, Tetrabutyl ribonic. M. Tishler. 2,424,341; July 22.



- Acidic solution of a partially polymerized melamine-formaldehyde condensation product in an aqueous aliphatic polyhydric alcohol solvent. J. D. Pollard. 2,417,014; Mar. 4.
- Acidified malt, Production of. T. R. Dixon. 2,427,323; Sept. 9.
- Acids, Amidization of pyridine monocarboxylic. P. W. Garbo. 2,419,831; Apr. 29.
- Acids, Extraction of saponifiable. W. E. McCorquodale, Jr., L. G. Magill, and J. D. Hagy. 2,422,794; June 24.
- Acids from dilute aqueous solution, Recovery of lower aliphatic. O. Spence. 2,422,504; June 17.
- Acids from sulphite waste liquors, Production of aliphatic. C. Weizmann. 2,415,777; Feb. 11.
- Acids, Preparation of. J. C. Hesler and A. S. Behrman. 2,415,558; Feb. 11.
- Acids, Preparation of long-chain fatty. D. D. Coffman. 2,433,016; Dec. 23.
- Acids, Separating fatty. L. D. Myers and V. J. Muckerheide. 2,421,157; May 27.
- Acids vicinally substituted with two mercapto groups, Carboxylic. W. A. Lazier, A. A. Pavlic, and W. J. Peppel. 2,422,246; June 17.
- Acoustic reservoir for use in a magnetic sound recording and reproducing system. F. Rieber. 2,424,633; July 29.
- Acoustic system for uniform distribution of sound. W. W. Hayes. 2,419,894; Apr. 29.
- Acoustical apparatus. E. Klein. 2,416,324; Feb. 25.
- Acridine compounds and making same. J. H. Burckhalter, A. L. Rawlins, F. H. Tendick, E. M. Jones, and W. F. Holcomb. 2,419,200; Apr. 22.
- Acrolein oxime and acrylonitrile, Manufacture of. K. H. Tuerck and H. J. Lichtenstein. 2,417,024; Mar. 4.
- Acrylates, methacrylates alone or in mixtures, and products thereof, Polymerization of. E. L. Kropa. 2,425,191; Aug. 5.
- Acrylic esters, Purifying. M. L. Fein and C. H. Fisher. 2,414,589; Jan. 21.
- Acrylic nitrile, Production of. H. S. Miller. 2,413,773; Jan. 7.
- Acrylonitrile from acetonitrile, Distillation of. J. W. Teter and W. J. Merwin. 2,415,662; Feb. 11.
- Acrylonitrile from acetylene and HCN, Manufacturing. W. A. Schulze and J. E. Mahan. 2,425,267; Aug. 5.
- Acrylonitrile, Production of. J. J. Owen and C. N. Kimberlin, Jr. 2,414,762; Jan. 21.
- Acrylonitrile, Refining of crude. H. S. Davis. 2,417,635; Mar. 18.
- Acrylonitrile, Stabilization of. H. S. Davis and O. F. Wiedeman. 2,432,511; Dec. 16.
- Activator for butadiene-1,3-emulsion polymerization, Silver nitrate. L. W. Rainard. 2,419,090; Apr. 15.
- Activators for terpene thiocyanoylate insecticides. J. N. Borglin. 2,420,809; May 20.
- Actuating and securing mechanism, Closure. J. J. Vogt. 2,422,056; June 10.
- Actuating device, Fluid pressure. B. H. Urschel and L. H. Janzer. 2,414,492; Jan. 21.
- Actuating device for hydraulic brake systems and rudders, Combined. A. C. Odell, Jr. 2,433,146; Dec. 23.
- Actuating mechanism for aerodynamic surfaces. J. Noyes, Jr. 2,422,035; June 10.
- Actuating mechanism for radio condensers. L. Hegy. 2,432,418; Dec. 9.
- Actuating mechanism for registers. H. T. Avery. 2,416,369; Feb. 25.
- Actuating mechanism, Tractor implement. H. B. Taft. 2,414,072; Jan. 7.
- Actuator. C. E. Miller. 2,413,882; Jan. 7.
- Actuator, Clutch. H. Bibicoff. 2,421,050; May 27.
- Actuator control. G. W. Jackson. 2,418,351; Apr. 1.
- Actuator, Electrical time controlled release. R. Sabor. 2,419,659; Apr. 29.
- Actuator, Electromagnetically operated jack-type. T. W. Millns. 2,430,405; Nov. 4.
- Actuator for aerial bombs, Timed. J. H. Harman. 2,414,464; Jan. 21.
- Actuator for electromagnetic switches, Step-by-step. S. T. Hunt and F. W. F. Goffe. 2,428,569; Oct. 7.
- Actuator, Limit switch. E. G. White. 2,433,180; Dec. 23.
- Actuator, Overtravel switch. N. C. Fetter. 2,418,222; Apr. 1.
- Actuator, Stream flow valve. L. Hornbostel. 2,430,175; Nov. 4.
- Acyclic organic compound with an alkylation agent using hydrogen fluoride as catalyst, Alkylation of. J. H. Simons. 2,423,470; July 8.
- Acy cyanides, Preparation of. W. F. Gresham. 2,426,014; Aug. 19.
- Acy amino phenols. I. F. Salminen and A. Weissberger. 2,423,730; July 8.
- Acyated hydroxy-substituted carboxylic acids, Production of. H. Sokol. 2,423,569; July 8.
- Acy sulfonamides, Manufacture of. H. Martin, F. Häffinger, and O. Neracher. 2,417,006; Mar. 4.
- Adapter. H. C. Claffelter. 2,432,860; Dec. 16.
- Adapter. W. C. Roe. 2,430,737; Nov. 11.
- Adapter for cameras, Filter. G. G. Mills. 2,420,379; May 13.
- Adapter for earth moving apparatus. L. L. Hyler. 2,430,770; Nov. 11.
- Adapter for flared tube fittings. E. A. Wenk. 2,424,727; July 29.
- Adapter, Manhole. L. F. Sayles. 2,431,082; Nov. 18.
- Adapter or coupling, Adjustable. W. H. Harrison. 2,431,172; Nov. 18.
- Adapter union, Manufacture of an. C. L. Conroy. 2,417,350; Mar. 11.
- Adapter with swivel joint. R. F. Bannow. Re. 22,929; Oct. 21.
- Adaptor for photographic cameras, Spindle. M. Goldschmidt. 2,429,355; Oct. 21.
- Adding and result checking machine, Relay type. W. Lang. 2,424,100; July 15.
- Adding machine. G. Liljeström and O. Klingström. 2,424,359; July 22.
- Adding values. G. W. Torrence. 2,420,762; May 20.
- Addition compounds of lactic acid salts with acetic acid, Manufacture of. R. H. Lock. 2,420,255; May 6.
- Addressing machine and sheet feeding means therefor. H. P. Elliott. 2,419,345; Apr. 22.
- Adhesion of films of coating material, Testing the. D. M. Williams. 2,431,974; Dec. 2.
- Adhesive and adhesive tape, Pressure sensitive. P. F. Ziegler. 2,426,257; Aug. 26.
- Adhesive applying mechanism for use in carpet making machines. H. P. Faris and J. E. White. 2,414,728; Jan. 21.
- Adhesive, Bituminous. S. A. Moore and T. Greenfield. 2,418,135; Apr. 1.
- Adhesive carrier film and utilization thereof, Production of. P. H. Rhodes. 2,429,396; Oct. 21.
- Adhesive, Cereal starch. C. C. Kesler and D. Rankin. 2,427,562; Sept. 16.
- Adhesive coated product. H. A. Hulslander. 2,417,497; Mar. 18.
- Adhesive composition, plywood, and making plywood, Polyvinyl resin. L. L. Blyler, J. W. Clough, C. W. Hawley, and E. C. Pitman. 2,419,880; Apr. 29.
- Adhesive compositions and process. J. J. Verbanc. 2,417,792; Mar. 18.
- Adhesive compositions, Flexible oilproof. O. Sass and E. A. Lemire. 2,414,274; Jan. 14.
- Adhesive, Cresylic acid-furfural synthetic resin base. D. V. Redfern. 2,430,736; Nov. 11.
- Adhesive fabrics, Pressure-sensitive. G. S. Stamatoff. 2,413,931; Jan. 7.
- Adhesive for joining optical elements. J. T. Rooney. 2,431,436; June 3.
- Adhesive for use as tile cements and the like. G. F. Lindner and H. J. Livermore. 2,430,987; Nov. 18.
- Adhesive material. D. J. Buckley and R. L. Smith. 2,415,276; Feb. 4.
- Adhesive, Polyvinyl butyral-resorcinol-formaldehyde. A. Hershberger. 2,430,053; Nov. 4.
- Adhesive tape and use in plywood. H. C. Geen. 2,420,366; May 13.
- Adhesive tape dispenser. L. H. Morin. 2,424,488; July 22.
- Adhesive tape, Surgical. W. R. Russ, C. Hoffman, T. R. Schweitzer, and G. Dalby. 2,427,022; Sept. 9.
- Adhesive temporary support. J. A. Ball. 2,422,387; June 17.
- Adhesives, Thermosetting. F. W. Hoover. 2,430,933; Nov. 18.
- Adiabatic fractionation, Process and apparatus for. W. A. Proell. 2,416,404; Feb. 25.
- Adjustable bed cover support. J. A. Voss. 2,424,907; July 29.
- Adjustable bracket. W. P. Tolbert. 2,419,923; Apr. 29.
- Adjustable can holder. H. H. Hallstream. 2,426,682; Sept. 2.
- Adjustable clothes hanger. H. M. Poole. 2,421,433; June 3.
- Adjustable colloid mill. E. G. Eppenbach and H. Imshaug. 2,428,415; Oct. 7.
- Adjustable comb support. A. A. Stavick. 2,431,840; Dec. 2.
- Adjustable display holder. G. H. Gustafson. 2,428,519; Oct. 7.
- Adjustable electrode holder. B. Ronay. 2,433,018; Dec. 23.
- Adjustable folding chair. B. P. Infantino. 2,428,314; Sept. 30.
- Adjustable flux valve. M. C. Depp and C. F. Fragola. 2,432,514; Dec. 16.
- Adjustable folding table. H. V. Gaudette. 2,432,192; Dec. 9.
- Adjustable hair drier. O. R. Nemeth. 2,422,811; June 17.
- Adjustable hand weaving frame. J. Wimberly Thomas. 2,433,307; Dec. 23.
- Adjustable mast leg support. H. J. Woolslayer, E. A. Campbell, and C. Jenkins. 2,429,009; Oct. 14.
- Adjustable mold holder. H. Rothstein. 2,418,852; Apr. 15.
- Adjustable motor vehicle seat. E. C. Horton. 2,432,895; Dec. 16.
- Adjustable mounting. I. L. Stephan. 2,424,513; July 22.
- Adjustable outlet box support. O. G. Dedge. 2,423,757; July 8.
- Adjustable pipe clamp. F. T. Newell. 2,415,753; Feb. 11.
- Adjustable pipe support. M. A. Urrutia. 2,419,860; Apr. 29.



- Adjustable reclining chair. A. Lorenz. 2,429,633; Oct. 28.  
Adjustable reclining chair. A. Lorenz. 2,430,577; Nov. 11.  
Adjustable reclining chair. A. Lorenz. 2,433,519; Dec. 30.  
Adjustable seat. N. B. Hedley and C. Stacey. 2,428,217; Sept. 30.  
Adjustable seat support. J. P. DeRose. 2,429,017; Oct. 14.  
Adjustable shoe rack. J. S. Robbins. 2,431,423; Nov. 25.  
Adjustable shoulder pad. J. Tangorra. 2,430,485; Nov. 11.  
Adjustable skein holder. C. T. Ostrom. 2,420,839; May 20.  
Adjustable skirt hanger. F. L. Buxton. 2,423,961; July 15.  
Adjustable spanner wrench. J. J. Trimner. 2,414,281; Jan. 14.  
Adjustable step-by-step motor. O. A. Shann. 2,422,212; June 17.  
Adjustable support. E. V. Bukolt. 2,433,023; Dec. 23.  
Adjustable support. E. G. Gartin. 2,415,205; Feb. 4.  
Adjustable swing bracket. E. F. Monnia. 2,431,134; Nov. 18.  
Adjustable thermostat switch. J. L. Schwartz. 2,421,292; May 27.  
Adjustable wire or conduit clp. A. Robertson and D. W. Merritt. 2,426,708; Sept. 2.  
Adjustable wrench. T. E. Steiber. 2,427,425; Sept. 16.  
Adjustably mounted bearing. N. R. Krause. 2,425,943; Aug. 19.  
Adjustably mounted motor. L. Orland. 2,422,433; June 17.  
Adjuster, Brake slack. W. O. Martin. 2,433,139; Dec. 23.  
Adjuster for railway brake rigging, Slack. F. E. Bachman. 2,425,979; Aug. 19.  
Adjuster, Slack. C. S. Kelley. 2,429,693; Oct. 28.  
Adjuster, Telegraphic bias keying. A. Kahn and C. N. Harris. 2,425,063; Aug. 5.  
Adjusting device for turn and bank indicators. W. A. Howren, Jr. 2,426,554; Aug. 26.  
Adjusting means for brake shoes. S. Schnell. 2,433,487; Dec. 30.  
Adjusting means for lathe attachments. E. Baerwalde. 2,425,780; Aug. 19.  
Adjusting means for soil working implements. F. W. Schiefelbein. 2,423,731; July 8.  
Adjusting the tail centers of lathes. L. R. Evans. 2,414,861; Jan. 28.  
Adjustment device. E. E. Franz. 2,430,606; Nov. 11.  
Adjustment for plate cylinders, Double. J. L. Blackley and W. P. V. Ross. 2,425,914; Aug. 19.  
Adjustment mechanism for wrapping machine cross-feed conveyers. W. Hoppe. 2,427,141; Sept. 9.  
Admix for drilling mud. J. W. O'Brien. 2,423,154; July 1.  
Adsorption apparatus. E. L. Luaces. 2,413,771; Jan. 7.  
Advertising display. B. B. Rochlus. 2,414,559; Jan. 21.  
Aeration method and machine. L. E. Booth. 2,433,592; Dec. 30.  
Aerial, Adjustable. E. O. Willoughby. 2,424,598; July 29.  
Aerial mine. M. P. Laughlin. 2,416,877; Mar. 4.  
Aerial navigation instrument. J. F. Caldwell, Jr. 2,413,683; Jan. 7.  
Aerial photographic image motion compensating system. A. A. Koepfer. 2,424,989; Aug. 5.  
Aerial projectile game. A. Frisch. 2,426,551; Aug. 26.  
Aerial trainer. W. S. Park. 2,428,432; Oct. 7.  
Aerial viewer with obstacle bypassing optical system comprising lens and mirror means. A. G. Handy. 2,426,207; Aug. 26.  
Aerodynamic brake. J. B. Black and W. F. Shurts. 2,415,670; Feb. 11.  
Aerodynamic brake. W. H. Hunter. 2,428,936; Oct. 14.  
Aeroelectric valve. C. A. Chalfant and W. Langston. 2,419,117; Apr. 15.  
Aeronautic positioning device. M. G. Crosby. 2,433,344; Dec. 30.  
Aeroplane and helicopter, Combined. A. Smith. 2,423,625; July 8.  
Aeroplanes when in flight, Controlling. H. L. Pitt. 2,419,161; Apr. 15.  
Aerosols, Method and apparatus for making. S. Hochberg. 2,416,256; Feb. 18.  
Affixing characters to transparent drums. J. L. Swallow. 2,421,764; June 10.  
Agent for aqueous compositions and producing same, Thickening. S. Musher. 2,414,117; Jan. 14.  
Agent for dyed cotton textiles, Methylated methylolmelamine as a fixing. R. S. Schreiber and H. E. Schroeder. 2,416,884; Mar. 4.  
Agglomerating device. F. Derfler. 2,413,693; Jan. 7.  
Aggregate, Light weight concrete. L. Gelbman. 2,414,734; Jan. 21.  
Agitating machine. J. Haller. 2,428,492; Oct. 7.  
Agitator and dispenser for lubricating compounds. H. L. C. Hansen. 2,423,934; July 15.  
Agricultural implement. G. H. Gascoigne and J. A. Kingston. 2,419,015; Apr. 15.  
Agricultural implement. J. Morkoski. 2,424,185; July 15.  
Air and recirculated air mixing and distributing means in an overhead air conditioning duct system, Cold. R. T. Palmer. 2,422,560; June 17.  
Air bleeding means for master cylinders. M. V. Groves. 2,433,213; Dec. 23.  
Air brake. L. I. Pickert. 2,414,392; Jan. 14.  
Air brake for aircraft. C. Dornier, F. Stauffer, H. Wanner, and F. Bottling. 2,421,870; June 10.  
Air cleaner. E. N. Jacobl. 2,431,329; Nov. 25.  
Air cleaner. J. B. Sebok. 2,414,904; Jan. 28.  
Air cleaner. J. B. Sebok. 2,416,851; Mar. 4.  
Air cleaning apparatus. K. F. Russell. 2,417,130; Mar. 11.  
Air compressor apparatus. E. E. Hewitt, R. J. Bush, and W. H. Glass. 2,417,197; Mar. 11.  
Air conditioner. A. P. Clark. 2,414,020; Jan. 7.  
Air conditioner. C. G. Cooper. 2,427,714; Sept. 23.  
Air conditioner, Hydro-vapor. G. Hanquet. 2,421,557; June 3.  
Air conditioner, Individual room. G. D. Arnold. 2,415,076; Feb. 4.  
Air conditioning. T. W. Binder. 2,419,477; Apr. 22.  
Air conditioning. M. A. Ramsey. 2,432,587; Dec. 16.  
Air conditioning apparatus. A. H. Eberhart. 2,417,743; Mar. 18.  
Air conditioning apparatus. A. H. Eberhart. 2,420,939; May 20.  
Air conditioning apparatus. A. H. Eberhart. 2,433,104; Dec. 23.  
Air conditioning apparatus. G. A. Kelley. 2,420,993; May 20.  
Air-conditioning apparatus, Automobile. E. L. Hart. 2,430,335; Nov. 4.  
Air conditioning, Method and apparatus for. G. A. Peple, Jr. Re. 22,870; Apr. 15.  
Air conditioning of buildings by passing air through hollow foundation block. M. E. Haines. 2,427,780; Sept. 23.  
Air conditioning of spinning operations and the like, Method of and apparatus for. M. F. Thoma and L. M. Cotchett. 2,425,578; Aug. 12.  
Air conditioning system. C. M. Hamblin. 2,429,619; Oct. 28.  
Air conditioning system energized by braking resistors, Vehicle. E. B. Fitzgerald. 2,428,561; Oct. 7.  
Air-conditioning system for cooling or heating. R. R. Hawkins. 2,428,876; Oct. 14.  
Air-conditioning system for motor vehicles. G. W. Crise. 2,430,759; Nov. 11.  
Air-conditioning unit. R. J. Steele. 2,431,146; Nov. 18.  
Air conditioning, Vehicle. E. H. R. Pegg. 2,422,563; June 17.  
Air cooling for radial engines. L. S. Hobbs. 2,426,871; Sept. 2.  
Air cooling for radial engines. A. V. D. Willgoos. 2,426,872; Sept. 2.  
Air control for locomotives. V. Mansfield. 2,415,256; Feb. 4.  
Aircraft. E. F. Bland. 2,431,536; Nov. 25.  
Air control valve. J. E. Dube. 2,433,206; Dec. 23.  
Aircraft. E. A. Stalker. 2,432,348; Dec. 9.  
Aircraft altitude control. S. Kellogg, 2d, G. N. Hanson, and T. W. Kenyon. 2,415,429; Feb. 11.  
Aircraft apparatus, Preflight pilot training. V. S. Jensen. 2,422,552; June 17.  
Aircraft, Beating wing. A. Baumann. 2,418,569; Apr. 8.  
Aircraft cabin supercharger arrangement. C. W. Morris. 2,424,491; July 22.  
Aircraft, Composite. O. A. Buettner. 2,421,742; June 10.  
Aircraft construction. E. R. Goodlett. 2,427,853; Sept. 23.  
Aircraft construction for handling cargo. M. Watter. 2,425,972; Aug. 19.  
Aircraft control. G. E. Bockrath. 2,428,194; Sept. 30.  
Aircraft control mechanism. K. L. Bunyard. 2,416,375; Feb. 25.  
Aircraft control mechanism. M. Watter. 2,418,060; Mar. 25.  
Aircraft control stick. J. M. Gwinn, Jr. 2,427,962; Sept. 23.  
Aircraft control surface. W. E. Stinson and F. Spenceley. 2,427,980; Sept. 23.  
Aircraft control surface actuator. J. M. Gwinn, Jr. 2,432,005; Dec. 2.  
Aircraft control surfaces for yaw control. C. P. and W. Clevenger. 2,433,649; Dec. 30.  
Aircraft detector using rotating polarization, Wave reflection. A. P. King. 2,421,028; May 27.  
Aircraft elevator construction. W. L. Wells. 2,430,793; Nov. 11.  
Aircraft flight control. F. H. Kelley and R. M. Stanley. 2,417,691; Mar. 18.  
Aircraft flight instrument. R. M. Stanley and J. F. Strickler. 2,424,511; July 22.  
Aircraft, Free-winged. D. D. Fehr. 2,426,086; Aug. 19.  
Aircraft fuselage and wing construction. M. Watter and A. G. Dean. 2,416,245; Feb. 18.  
Aircraft having a plurality of yaw moment producing means, Rotative winged. P. H. Stanley. 2,419,604; Apr. 29.  
Aircraft having axial flow compressor and boundary layer intake. E. A. Stalker. 2,431,592; Nov. 25.



- Aircraft heating apparatus, Internal-combustion. H. B. Holthouse. 2,427,675; Sept. 23.
- Aircraft heating apparatus with altitude responsive combustion air supply. H. B. Holthouse. 2,427,674; Sept. 23.
- Aircraft hot air-heater with air speed responsive fuel supply. J. H. Leslie, II. 2,429,101; Oct. 14.
- Aircraft, including autorotatable rotor construction and the regulation of rotor blade pitch, Sustaining-rotor-equipped. J. de la Cierva. 2,421,364; May 27.
- Aircraft instrument. S. S. Knox. 2,413,924; Jan. 7.
- Aircraft landing gear. F. E. Bachman and L. Gothberg. 2,431,302; Nov. 25.
- Aircraft landing gear. H. T. Kraft. 2,416,183; Feb. 18.
- Aircraft landing gear. J. B. Wassall and W. N. Wallace. 2,418,325; Apr. 1.
- Aircraft landing system. J. W. Downie. 2,426,440; Aug. 26.
- Aircraft landing wheel support. D. R. Demaline. 2,414,859; Jan. 28.
- Aircraft liquid supply means. W. E. Stinson. 2,415,972; Feb. 18.
- Aircraft, Method and apparatus for launching. R. C. du Pont. 2,418,702; Apr. 8.
- Aircraft operating mechanism. M. Watter. 2,424,523; July 22.
- Aircraft oxygen regulator. A. Huggenberger. 2,420,375; May 13.
- Aircraft, Rotary wing sustained. E. A. Stalker. 2,425,651; Aug. 12.
- Aircraft, Rotating disc type. C. D. Lennon. 2,432,775; Dec. 16.
- Aircraft structures, Assembling. M. Watter. 2,429,144; Oct. 14.
- Aircraft structure, Fabricated. M. Watter and A. G. Dean. 2,432,055; Dec. 2.
- Aircraft supercharger arrangement for engine and cabin. C. G. Talbot. 2,415,713; Feb. 11.
- Aircraft supporting surface. L. C. Heal. 2,418,301; Apr. 1.
- Aircraft undercarriage, Retractable. J. C. Martin. 2,413,986; Jan. 7.
- Aircraft utilizing magnus effect. P. C. Grose. 2,417,358; Mar. 11.
- Aircraft wheel spinner and control. R. H. Beazley. 2,414,849; Jan. 28.
- Aircraft wheels, Power rotation of. S. S. Knox. 2,417,937; Mar. 25.
- Aircraft wing connection. A. J. Klose. 2,425,099; Aug. 5.
- Aircraft wing flap assembly. W. H. Moore. 2,418,273; Apr. 1.
- Aircraft with mechanical balancing for flapping, Rotary wing. E. A. Stalker. 2,423,733; July 8.
- Aircraft with pusher type propeller for stabilizing and steering. A. M. Young. 2,433,641; Dec. 30.
- Aircraft with tiltable rotor having movable pilot. K. P. Synnstedt. 2,427,646; Sept. 16.
- Air distributing duct for a vehicle having a means for mixing cold and recirculated air, Overhead. H. Hemming. 2,422,782; June 24.
- Air distributing duct for buildings having an automatic damper means, Inlet and outlet. K. J. Wendel. 2,419,806; Apr. 29.
- Air distributing duct, including damper means. F. J. Kurth, F. Honerkamp and H. K. Kunen. 2,423,241; July 1.
- Air-duct electric heater. S. M. Hooper. 2,428,079; Sept. 30.
- Air eliminator. A. P. Nicolette. 2,425,070; Aug. 5.
- Air flow control for crankcase ventilation. W. J. Foster. 2,423,592; July 8.
- Airfoil, Self-energizing. F. C. Melchior. 2,427,972; Sept. 23.
- Airfoil structure. R. J. Nebesar. 2,427,065; Sept. 9.
- Airfoil structures, Manufacturing and assembling. M. Watter and F. P. Bender. 2,430,438; Nov. 4.
- Airfoil, Variable. D. J. Naumann. 2,426,785; Sept. 2.
- Air heater. C. C. Morse. 2,426,231; Aug. 26.
- Air heater. C. S. Smith and W. H. Rowand. 2,424,587; July 29.
- Air heater for hot-air turbine and blast furnace, Combined. R. Ruegg. 2,422,131; June 10.
- Air heater with corrugated core. A. Jensen and S. Holm. 2,430,227; Nov. 4.
- Air heating furnace. M. Panteleieff. 2,432,038; Dec. 2.
- Air-heating system. H. B. Holthouse. 2,427,673; Sept. 23.
- Air in the packaging of products by the use of bubbles of inert gas, Displacing. A. E. Stevenson. 2,433,071; Dec. 23.
- Air insulated cable, Method and apparatus for making. H. D. Isenberg. 2,421,268; May 27.
- Air on board aircraft, Production of compressed. C. R. Waseige. 2,421,398; June 3.
- Air opening of jet propelled planes, Inlet. D. K. Warner. 2,418,380; Apr. 1.
- Air pickup and delivery system, Simultaneous. R. B. Cotton. 2,433,437; Dec. 30.
- Airplane. E. E. Wallace. 2,415,615; Feb. 11.
- Airplane. M. Watter. 2,425,498; Aug. 12.
- Airplane adapted for horizontal, vertical, and hovering flight, Convertible. L. W. Jordan. 2,419,780; Apr. 29.
- Airplane amusement device. L. E. Reed. 2,431,421; Nov. 25.
- Airplane antenna automatic tuning system. C. H. Fox. 2,417,191; Mar. 11.
- Airplane approach control system. S. N. Wight, O. S. Field, and N. B. Coley. 2,425,973; Aug. 19.
- Airplane arresting hook. J. G. Lee. 2,419,455; Apr. 22.
- Airplane body. J. M. Baer and A. H. Heineman. 2,420,292; May 13.
- Airplane catapult. L. J. Maxson and F. B. Gross. 2,413,724; Jan. 7.
- Airplane control surface. W. M. Hawkins. 2,421,694; June 3.
- Airplane fan device, Model. H. E. Evans. 2,427,952; Sept. 23.
- Airplane field, Floating. S. H. Kurfiss. 2,430,178; Nov. 4.
- Airplane hangar, administrative and shop unit. A. S. Miller, C. W. Frank, and R. R. Hagglund. 2,420,186; May 6.
- Airplane having adjustable wings and wing adjusting means. R. G. Gille and H. K. Bourquin. 2,428,934; Oct. 14.
- Airplane heater having pressure differential fuel control. L. A. Williams, Jr. 2,427,758; Sept. 23.
- Airplane of low aspect ratio. R. B. Lightfoot. 2,430,820; Nov. 11.
- Airplane of low aspect ratio. C. H. Zimmerman. 2,431,293; Nov. 18.
- Airplane, Roadable. R. E. Fulton, Jr. 2,430,869; Nov. 18.
- Airplane tab balancing means. L. S. Wasserman. 2,425,358; Aug. 12.
- Airplane, Tailless. G. W. Cornelius. 2,417,189; Mar. 11.
- Airplane, Tailless. W. R. Sears. 2,416,958; Mar. 4.
- Airplane wheel balancing weight. H. J. Kalajian. 2,433,762; Dec. 30.
- Airplane wing. H. W. Earhart. 2,432,396; Dec. 9.
- Airplane wing deicer. W. N. Patterson. 2,422,746; June 24.
- Airplane wing lift modification. E. M. Lanier. 2,430,431; Nov. 4.
- Airplane wing of variable area construction. A. C. Kraaymes. 2,420,433; May 13.
- Airplane wing spar joint. A. Utsch. 2,424,521; July 22.
- Airplane wing structure. W. K. Canaday. 2,419,332; Apr. 22.
- Airplane yaw and pitch control. I. L. Ashkenas and S. A. Krieger. 2,431,449; Nov. 25.
- Airplanes for refueling, Method and apparatus for handling. W. C. Leitch and J. A. Logan. 2,421,512; June 3.
- Aircrew. D. Biermann. 2,423,752; July 8.
- Aircrew. H. L. Milner. 2,432,673; Dec. 16.
- Aircrew. H. H. Platt and W. Laurence. 2,430,947; Nov. 18.
- Aircrew drive. H. H. Platt. 2,414,765; Jan. 21.
- Airship, Dirigible. A. J. and A. G. Elliott. 2,428,656; Oct. 7.
- Air supply arrangement for hot air power plant furnaces, Multiple temperature. F. Nettel and J. Kreitner. 2,420,335; May 13.
- Air system for multiple tank fuel feed devices. H. E. Duffy. 2,424,440; July 22.
- Air tank. M. Dach. 2,424,879; July 29.
- Air translating apparatus. G. H. Koch and C. O. Egerton. 2,433,280; Dec. 23.
- Air valve. W. G. Christiansen. 2,414,189; Jan. 14.
- Alarm and indicating device, Electric. J. A. McLaren. 2,429,363; Oct. 21.
- Alarm, Fire. L. L. Adolf. 2,430,850; Nov. 18.
- Alarm, Fire. A. Yohn. 2,428,107; Sept. 30.
- Alarm for cash drawers, Burglar. F. C. W. Stelter. 2,416,963; Mar. 4.
- Alarm for motion picture projectors, Reel end. C. W. Hatke. 2,427,140; Sept. 9.
- Alarm for synchros, Noncorrespondence. R. C. Winterbottom. 2,428,402; Oct. 7.
- Alarm for typewriters, Page end. E. T. Wickland. 2,417,532; Mar. 18.
- Alarm, Pressure drop. S. Lehman. 2,417,940; Mar. 25.
- Alarm, Reel end. I. I. Merkur. 2,420,832; May 20.
- Alarm system. F. F. Denzler. 2,426,085; Aug. 19.
- Alarm system, Automatic toll ticketing. F. B. Blake. 2,426,981; Sept. 9.
- Alarm system, Electrical. G. V. A. Gustafsson. 2,422,542; June 17.
- Alarm system, Electrical protective. H. M. Laford. 2,419,957; May 6.
- Alarm, Temperature. A. H. Visocan. 2,429,572; Oct. 21.
- Alarm, Typewriter. L. Armstrong. 2,422,650; June 24.
- Alcohol and glycerol by fermentation, Production of. C. E. Grover. 2,430,170; Nov. 4.
- Alcohol article and products, Treatment of polyvinyl. R. A. Scheiderbauer. 2,413,789; Jan. 7.
- Alcohol, Drying polyvinyl. G. S. Stamatoff. 2,430,372; Nov. 4.
- Alcohol from sulphite residual liquor, Manufacture of ethyl. G. H. Tomlinson. 2,429,143; Oct. 14.
- Alcohol, Hydrogenation of polyallyl. D. E. Adelson and H. F. Gray, Jr. 2,414,578; Jan. 21.
- Alcohol insolubilized with chlorinated polymeric ethers, Polyvinyl. C. W. Mortenson. 2,416,880; Mar. 4.
- Alcohol, Plasticized polyvinyl. C. Dangelmajer. 2,430,919; Nov. 18.
- Alcohol, Production of allyl. G. W. Fowler and J. T. Fitzpatrick. 2,426,264; Aug. 26.
- Alcohols, Oxidation of. D. C. Hull. 2,425,879; Aug. 19.
- Alcohols, Oxidation of lower aliphatic. D. C. Hull. 2,425,878; Aug. 19.



- Alcohols, Oxidation of lower aliphatic. D. C. Hull. 2,425,880; Aug. 19.
- Alcohols, Producing polyhydric. E. Arundale and L. A. Mikeska. 2,421,862; June 10.
- Aldehyde cellulose products, and making same. J. B. Rust. 2,415,039; Jan. 28.
- Aldehyde condensations, Recovery of products from. H. A. Poitras, J. E. Snow, and S. A. De Crenzo. 2,420,496; May 13.
- Aldehyde-prolamine reaction products, Producing. W. L. Morgan. 2,427,503-4; Sept. 16.
- Aldehydes and triazine derivatives, Reaction products of. G. F. D'Alelio. 2,430,708; Nov. 11.
- Aldol, Continuous process of producing. D. C. Hull. 2,428,846; Oct. 14.
- Aldol, Continuous production of. F. J. Metzger. 2,433,524; Dec. 30.
- Allycyclic aldehydes, Preparation of. H. L. Yale and G. W. Hearne. 2,429,501; Oct. 21.
- Allycyclic guanamines. J. T. Thurston. 2,423,071; June 24.
- Aligner and sheet metal fastener, Hole. L. O. Vinson. 2,428,641; Oct. 7.
- Aliphatic amines and acid amides, Manufacture of. J. F. Olin and T. E. Deger. 2,422,631-2; June 17.
- Aliphatic halides, and preparing same, Long chain. L. I. Smith and J. A. Sprung. 2,421,090; May 27.
- Aliphatic nitro derivatives of ketoesters and preparing them. C. T. Bahner. 2,425,276; Aug. 5.
- Aliphatic 2-oxa-1,5-pentanediol diesters. M. Senkus. 2,416,024; Feb. 18.
- Alkadienes by dehydrogenating alkenes, Producing. C. M. Stone and K. J. Korpi. 2,423,418; July 1.
- Alkadienes, Production of. C. M. Stone. 2,418,374; Apr. 1.
- Alkali dissolution of glass, Inhibiting. W. F. Wegst, L. R. Bacon, and T. H. Vaughn. 2,419,805; Apr. 29.
- Alkali halide target with contrasting colors. H. Leverenz. 2,418,780; Apr. 8.
- Alkali halogen cell, Electrolytic. K. E. Stuart. 2,430,374; Nov. 4.
- Alkali metal chlorosulfonates, Preparation of. N. A. Laury. 2,415,358; Feb. 4.
- Alkali metal halide and luminescent screen of substantially coincident spectral absorption. H. W. Leverenz. 2,418,779; Apr. 8.
- Alkali metal selenides, Making. W. T. Stewart. 2,430,255; Nov. 4.
- Alkali metal sulfides, Making. C. A. Highhill. 2,414,042; Jan. 7.
- Alkali metal trifluoroacetate, Production of. J. H. Babcock and A. D. Kischitz. 2,414,706; Jan. 21.
- Alkali metals and their oxides, Production of. R. A. Stauffer. 2,424,512; July 22.
- Alkali metals in low temperature, Friedel-Crafts catalyzed isoolefin polymerization process. J. A. Reid. 2,427,303; Sept. 9.
- Alkali metals, Oxidation of. R. R. Miller. 2,414,116; Jan. 14.
- Alkali, Purification of caustic. D. J. Pye and M. F. Leduc. 2,415,798; Feb. 11.
- Alkali silicate, Coating with. C. E. Kraus. 2,419,080; Apr. 15.
- Alkali solution, Regenerating spent caustic. A. P. Hewlett and H. C. Paulsen. 2,428,623; Oct. 7.
- Alkali subsulfates, Making. R. L. Davies. Re. 22,951; Dec. 23.
- Alkaline dry cell. S. Ruben. 2,422,046; June 10.
- Alkaline earth sulphates, Manufacture of. J. C. Carter. 2,416,818; Mar. 4.
- Alkaloids, Recovering. R. E. Kremers. 2,416,484; Feb. 25.
- Alkamine derivatives of meta amino methyl benzoic acid. R. P. Parker and A. J. Hill. 2,428,239; Sept. 30.
- Alkamine derivatives of ortho aminomethyl benzoic acid. R. P. Parker and A. J. Hill. 2,429,275; Oct. 21.
- Alkamine esters of oxy substituted diarylhydroxyacetic acids. R. B. Holmes and A. J. Hill. 2,430,116; Nov. 4.
- Alkanes, Production of branched chain. E. W. M. Fawcett. 2,415,628; Feb. 11.
- Alkanes, Production of branched chain. E. W. M. Fawcett and G. I. Jenkins. 2,428,841; Oct. 14.
- Alkanes, Vapor phase nitration of. L. A. Stengel and R. S. Egly. 2,418,241; Apr. 1.
- Alkanoic acid esters of tris (hydroxymethyl) dimethylaminomethane. E. B. Hodge. 2,433,609; Dec. 30.
- Alkaryl amine and preparing, Stabilized. R. K. Smith. 2,422,503; June 17.
- Alkenyl aromatic compounds, Production of. W. N. Axe. 2,430,661; Nov. 11.
- Alkenyl aromatics, Production of. W. N. Axe. 2,430,660; Nov. 11.
- Alkenylfurans, Production of. C. R. Wagner. 2,431,216; Nov. 18.
- Alkenyl-substituted chlorosilanes, Preparation of. D. T. Hurd. 2,420,912; May 20.
- Alkoxy benzoates of N (hydroxy ethyl) and n-(hydroxy phenethyl) substituted amino alcohols. W. G. Christiansen and S. E. Harris. 2,418,501; Apr. 8.
- Alkoxy menthene-7-carbinols and preparing same. J. P. Bain and A. H. Best. 2,424,960; Aug. 5.
- Alkoxyethyl derivatives of cellulose and process. W. H. Charch and F. B. Cramer. 2,430,911; Nov. 18.
- Alkylaminobenzamides. A. R. Surrey. 2,429,535; Oct. 21.
- Alkyl and alkylene naphthalene isomers, Separation of. J. E. Nickels. 2,424,841; July 29.
- Alkyl and hydroxyalkyl nitro amines and preparing them. M. Senkus. 2,419,506; Apr. 22.
- Alkyl aromatic hydrocarbons, Treatment of. V. Haensel and V. N. Ipatieff. 2,422,673; June 24.
- Alkylaromatics, Production of. E. A. Johnson. 2,421,331; May 27.
- Alkylarylsulfonates, Purification of. J. J. Carnes. 2,433,316; Dec. 23.
- Alkyl carbamates in color compositions. R. H. Klenle and C. A. Amick. 2,421,622; June 3.
- Alkyl chlorides and petroleum fractions, Catalytic conversion of mixtures of. H. T. Brown and E. Gorin. 2,425,861; Aug. 19.
- Alkyl-dialkylaminosilanes. O. K. Johansson. 2,429,883; Oct. 28.
- Alkyl disulfides, High molecular weight. W. A. Schulze and W. W. Crouch. 2,415,851; Feb. 18.
- Alkyl esters of alkenyl phosphonic acids, Unsaturated. A. D. F. Toy. 2,425,766; Aug. 19.
- Alkyl esters of alpha-acylamino, beta-carboalkoxymethyl mercapto suberic acid. S. R. Safir, S. Bernstein and B. R. Baker. 2,431,967; Dec. 2.
- Alkyl esters of aryl phosphonic acids, Unsaturated. A. D. F. Toy. 2,425,765; Aug. 19.
- Alkyl esters of chloromaleic acid, Higher. R. B. Seymour. 2,426,902; Sept. 2.
- Alkylhalogenosilanes, Preparation of. D. T. Hurd. 2,427,605; Sept. 16.
- Alkyl ketones in presence of aqueous ammonium halide solutions, Condensation of. V. N. Ipatieff and C. B. Linn. 2,431,754; Dec. 2.
- Alkyl ketones to form condensation thereof, Treatment of. V. N. Ipatieff and C. B. Linn. 2,419,142; Apr. 15.
- Alkyl ketones, Treatment of. C. B. Linn and V. N. Ipatieff. 2,429,361; Oct. 21.
- Alkyl mercaptans as short-stopping agents in butadiene-styrene emulsion polymerization, Lower. W. A. Schulze and W. Crouch. 2,425,840; Aug. 19.
- Alkyl phenols, Process and manufacture of. J. A. Arvin and J. V. Hunn. 2,415,069; Feb. 4.
- Alkyl-substituted aromatic hydrocarbons, Preparation of. D. D. Coffman and J. R. Roland. 2,432,381; Dec. 9.
- Alkyl-substituted aromatic sulfonates. H. F. Reeves, Jr. 2,422,926; June 24.
- Alkylated pyrrole compounds, Synthesis of. L. A. Brooks and M. Markarian. 2,417,046; Mar. 11.
- Alkylating aromatic compounds. G. L. Magoun. 2,429,887; Oct. 28.
- Alkylating. B. H. Shoemaker and B. L. Evering. 2,419,692; Apr. 29.
- Alkylation. O. C. Slotterbeck. 2,425,572; Aug. 12.
- Alkylation of isoparaffins by means of normal olefins in the presence of hydrofluoric acid. M. P. Matuszak. 2,426,559; Aug. 26.
- Alkylation of isoparaffins by mixtures of ethylene and propylene. C. H. Watkins and R. N. Meinert. 2,415,717; Feb. 11.
- Alkylation process. C. E. Hemminger. 2,417,251; Mar. 11.
- Alkylation process. T. B. Hudson, I. L. Wolk, and J. D. Upham. 2,426,611; Sept. 2.
- Alkylation process. C. S. Kuhn, Jr. 2,416,395; Feb. 25.
- Alkylation process. M. P. Matuszak. 2,427,293; Sept. 9.
- Alkylation process. M. P. Matuszak. 2,432,482; Dec. 9.
- Alkylation process. J. E. Penick. 2,431,500; Nov. 25.
- Alkylation process. W. A. Schulze. 2,419,796; Apr. 29.
- Alkylation process. W. A. Schulze and J. P. Lyon, Jr. 2,416,022; Feb. 18.
- Alkylation process. J. H. A. P. L. Van der Valk. 2,428,506; Oct. 7.
- Alkyleneimine with ammonium dithiocarbamate, Reaction product of. R. A. Mathes. 2,422,578; June 17.
- Alkylolamides into oxazolines, Conversion of. E. I. Valko. 2,416,552; Feb. 25.
- Allo-Ocimene, Isomerization of. L. A. Goldblatt. 2,427,497; Sept. 16.
- Allo-ocimene polymers, Depolymerizing. D. M. Oldroyd, T. R. Savich and L. A. Goldblatt. 2,427,506; Sept. 16.
- Alloy: See—
- Acid resistant alloy. Permanent magnet alloy.
- Alloy anode for electrodeposition of zinc. S. P. Lowe, M. K. T. Reikie, G. H. Kent, and G. W. Long. 2,419,722; Apr. 29.
- Alloy coatings, Electrolytic production of. K. M. Huston and V. A. Rayburn. 2,424,173; July 15.
- Alloy for high-temperature use, Forgeable. R. H. Thielemann. 2,423,738; July 8.
- Alloy process. A. L. Feild. 2,430,671; Nov. 11.
- Alloys, Alpha copper. A. U. Seybolt. 2,422,752; June 24.
- Alloys and articles, Ferrous. R. Franks and W. O. Binder. 2,432,619; Dec. 16.
- Alloys, Electrodeposition of iron-tungsten. M. L. Holt and R. E. Black. 2,432,894; Dec. 16.
- Alloys, Electrodeposition of molybdenum-cobalt. L. F. Yntema. 2,428,404; Oct. 7.
- Alloys, Electrodeposition of nickel-tungsten. M. L. Holt and M. L. Nielsen. 2,432,893; Dec. 16.
- Alloys, Electrolytic method for producing magnesium. L. A. Yerkes. 2,431,723; Dec. 2.
- Alloys for high temperature service, Ferrous. R. Franks and W. O. Binder. 2,432,614; Dec. 16.



- Alloys for high-temperature use. Ferrous. R. Franks and W. O. Binder. 2,432,617-18; Dec. 16.
- Alloys for use at high temperatures. Ferrous. R. Franks and W. O. Binder. 2,432,616; Dec. 16.
- Alloys. Grain refinement of aluminum-containing magnesium-base. J. A. Davis. 2,429,221; Oct. 21.
- Alloys. Heat resistant nickel. W. T. Griffiths and L. B. Pfeil. 2,432,149; Dec. 9.
- Alloys. Iron-base. R. Franks and W. O. Binder. 2,432,615; Dec. 16.
- Alloys low in carbon. Producing. I. Rennerfelt and B. M. S. Kalling. 2,429,648; Oct. 28.
- Alloys. Magnesium base. A. Beck, G. Siebel, and H. Vosskuhler. 2,420,293; May 13.
- Alloys. Precipitation hardenable copper, nickel, tantalum (or columbium). C. S. Smith. 2,430,306; Nov. 4.
- Alloys. Zinc-titanium-manganese. E. J. Boyle and E. A. Anderson. 2,428,959; Oct. 14.
- Allylglycine. Preparation of. R. S. Long and C. M. Hofmann. 2,425,283; Aug. 5.
- Allyl type compounds. Production of. E. C. Shokal and T. W. Evans. 2,428,590; Oct. 7.
- $\alpha$ -di-(*p*-chlorophenyl)- $\beta$ : $\beta$ -trichloroethane insecticidal compositions and method. P. Muller. Re. 22,922; Sept. 30.
- $\alpha$ , $\beta$ -(*p*,*p'*-dihydroxy-diaryl)- $\alpha$ , $\beta$ -dialkyl-alkyl and -alkylene. Manufacture of compounds. E. Adler, G. J. Gie, and H. V. Euler. 2,421,401; June 3.
- Alpha, beta-unsaturated nitriles. Halogenation of. J. D. Robinson. 2,429,031; Oct. 14.
- Alpha-cyclopropyl acrylonitrile. T. F. Wood. 2,433,500; Dec. 30.
- Alpha-halo, beta-oxo suberic acid and esters thereof. B. R. Baker, S. R. Safir, and S. Bernstein. 2,428,955; Oct. 14.
- $\alpha$ -hydroxy-B[ $\beta$ -dimethyl- $\alpha$ -butyrolactone. Resolution of. F. Bergel, A. Cohen, A. L. Morrison, and A. R. Moss. 2,423,062; June 24.
- Alpha keto aliphatic amides. Preparation of. W. F. Gresham. 2,429,877; Oct. 28.
- Alpha-methylalcohol. Preparing. J. Kamlet. 2,423,599; July 8.
- Alpha-methyl para-methyl styrene. Making a solid dimer of. B. H. Kress. 2,433,372; Dec. 30.
- Alpha methyl styrene from a mixture containing cumene. Separating. O. C. Slotterbeck and C. E. Morrell. 2,423,802; July 8.
- Alpha-methylene monocarboxylic acid esters. Polymerization of. R. E. Christ and B. M. Marks. 2,417,238; Mar. 11.
- $\alpha$ -nitro-isobutene. Preparation of. A. E. W. Smith and C. W. Scaife. 2,417,380; Mar. 11.
- Alpha-substituted aralkyl esters of amino carboxylic acids. H. Martin, F. Häflicher, and K. Gatzl. 2,417,773; Mar. 18.
- $\alpha$ -substituted side-chain ketones of the cyclopentanopolyhydrophenanthrene series and making same. T. Reichstein. Re. 22,941; Nov. 25.
- Alphabet blocks. Self-illuminated plastic plug-in. A. S. Hoffman. 2,424,169; July 15.
- Alphabetic interpreter. E. Buhler. 2,424,076; July 15.
- Alternating- and direct-current voltages. Method and apparatus for combining. J. J. and J. H. Ritter. 2,431,080; Nov. 18.
- Alternating current bus bar construction. C. A. Adams, J. R. Fletcher, and G. Stecker. 2,416,670; Mar. 4.
- Alternating current electric power systems. Protection of. P. H. Light. 2,431,572; Nov. 25.
- Alternating current generator. E. R. Morton. 2,432,117; Dec. 9.
- Alternating current generator. E. H. Yonkers. 2,416,560; Feb. 25.
- Alternating current power switch. R. Pudelko, H. Meier, and W. Zingg. 2,430,367; Nov. 4.
- Altimeter. I. Wolff and J. L. Hathaway. 2,417,033; Mar. 4.
- Altimeter and object detector. Radio pulse. W. D. Hershberger. 2,423,024; June 24.
- Altimeter. Electric. J. L. Hathaway. 2,421,785; June 10.
- Altitude or distance indicator. Frequency modulated. R. C. Sanders, Jr. 2,420,199; May 6.
- Altitude or distance indicator. Frequency modulated. I. Wolff and R. C. Sanders, Jr. 2,419,046; Apr. 15.
- Altimeter. Pulse-echo. V. D. Landon. 2,428,424; Oct. 7.
- Altimeter. Pulsed frequency modulated. R. C. Sanders, Jr. 2,424,854; July 29.
- Altitude compensated internal-combustion air heater. S. E. Heymann. 2,418,712; Apr. 8.
- Altitude compensating heating system. H. J. DeN. McCollum. 2,416,935; Mar. 4.
- Alumina and hydrochloric acid. Recovering. J. D. Hoffman. 2,413,709; Jan. 7.
- Alumina from ores. Recovery of. F. R. Archibald. 2,420,852; May 20.
- Alumina gel. J. A. Pierce and C. N. Kimberlin, Jr. 2,422,499; June 17.
- Alumina low silica refractory. T. E. Field. 2,424,082; July 15.
- Alumina molybdena catalyst. Preparation of a coprecipitated. W. H. Claussen and H. B. Wellman. 2,432,286; Dec. 9.
- Alumina. Powdered. R. C. Chirnside and L. A. Dauncey. 2,431,379; Nov. 25.
- Alumina solid solution. H. N. Baumann, Jr., and R. C. Benner. 2,418,496; Apr. 8.
- Aluminothermic unit. H. E. Hirschland and S. Ricklin. 2,422,965; June 24.
- Aluminum. Abrasing. J. G. Rosales. 2,417,662; Mar. 18.
- Aluminum alloys. Heat treatment of. L. M. Hirsch and F. W. Carl. 2,418,765; Jan. 7.
- Aluminum and aluminum alloys with metal coatings. Providing. J. Korpiun. 2,418,265; Apr. 1.
- Aluminum and magnesium surfaces. Degreasing. E. P. Plueddemann and R. Rathman. 2,423,343; July 1.
- Aluminum chloride catalyst. Supported. J. W. Latchum, Jr., A. D. Pickett, and G. B. Evans. 2,429,232; Oct. 21.
- Aluminum. Cleaning. W. E. White. 2,431,595; Nov. 25.
- Aluminum conducting surface treatment. W. F. Bonwitt. 2,423,290; July 1.
- Aluminum halide-hydrocarbon complex catalysts. Refortification of. J. L. Groebe, W. B. Reeves, and D. C. Campbell. 2,421,326; May 27.
- Aluminum oxide abrasive material. Fused. H. N. Baumann, Jr., and R. C. Benner. 2,424,645; July 29.
- Aluminum oxide substantially free from silica. Producing. F. J. Anderson and D. R. Williams. 2,421,918; June 10.
- Aluminum phosphate bonded diamond abrasive. O. S. Buckner. 2,420,859; May 20.
- Aluminum powder and resin spot facing material. C. E. Maier. 2,421,154; May 27.
- Aluminum. Prewelding cleaning of. L. B. Sperry. 2,430,435; Nov. 4.
- Aluminum salts of bile acids. C. W. Sondern and R. H. Herbine. 2,429,899; Oct. 28.
- Aluminum strip. Heat treatment of. E. M. Chandler, T. W. Bossert, and K. B. Baker. 2,416,378; Feb. 25.
- Ambulant soil treating apparatus. H. C. Hettelsater. 2,424,459; July 22.
- Amide naphthol ethers. E. R. Blout and R. S. Corley. 2,431,911; Dec. 2.
- Amides and their manufacture. A. Ofner and J. D. Surmatis. 2,432,438; Dec. 9.
- Amides. Preparing unsaturated. H. S. Davis, M. Lichtenwalter and W. M. Zeischke. 2,431,468; Nov. 25.
- Amides. Synthesis of. J. E. Mahan. 2,421,030; May 27.
- Amidine salts. Production of. H. J. Barber. 2,425,221-3; Aug. 5.
- Amidines. Production of. W. F. Short and P. Oxley. 2,433,489; Dec. 30.
- Amine-aldehyde polymer. Halogenated aromatic. S. S. Kistler. 2,429,554; Oct. 21.
- Amine flotation of glass sands. Two-stage. E. B. Stokes. 2,433,633; Dec. 30.
- Amine salts of dinitrophenols. G. H. Coleman and F. B. Smith. 2,422,658; June 24.
- Amine salts of polychloro-2-hydroxy-deipenyl. G. H. Coleman and W. D. Schroeder. 2,417,809; Mar. 25.
- Amine salts of trichloro-2-hydroxy-diphenyl. G. H. Coleman and W. D. Schroeder. 2,427,658; Sept. 23.
- Amines. Acylated. C. M. Blair, Jr. 2,426,333; Aug. 26.
- Amines and nitriles from olefins and ammonia. Preparing. J. W. Teter. 2,419,470; Apr. 22.
- Amines and nitriles. Production of. J. W. Teter. 2,417,892; Mar. 25.
- Amines and preparing them. M. Senkus. 2,426,375; Aug. 26.
- Amines from nitrogen compounds. Production of secondary. W. S. Emerson. 2,414,031; Jan. 7.
- Amines in the steroid series. P. L. Julian, J. W. Cole, and E. W. Meyer. 2,428,368; Oct. 7.
- Amines obtained by condensing diaryl amines with acetylene hydrocarbons. Secondary. A. W. Sloan. 2,419,736; Apr. 29.
- Amines. Preparation of. W. K. O'Loughlin. 2,422,743; June 24.
- Amines. Preparing. E. J. Gohr. 2,421,608; June 3.
- Amines. Preparing. E. J. Gohr, F. T. Barr, and B. E. Roetheli. 2,415,817; Feb. 18.
- Amines. Production of aromatic. W. H. Williams, R. D. Holmes, and H. F. V. Fruehauf. 2,432,551; Dec. 16.
- Amines. Production of aromatic. W. H. Williams, R. D. Holmes, and A. H. Widiger, Jr. 2,432,552; Dec. 16.
- Amines. Stable dispersions of aromatic. B. M. Sturgis and A. A. Baum. 2,432,831; Dec. 16.
- Aminoacetals. Preparation of. D. J. Loder and W. M. Bruner. 2,425,628; Aug. 12.
- Aminoacetonitrile by vacuum distillation. Purification of. A. G. Weber and C. D. Bell. 2,425,661; Aug. 12.
- Amino acid separation. R. J. Block. 2,429,666; Oct. 28.
- Amino-alcohol esters of aralkyl-oxo-benzoic acids. W. G. Christiansen and S. E. Harris. 2,415,235; Feb. 4.
- Amino-aliphatic hydrazines and making same. J. G. N. Drewitt and D. P. Young. 2,420,702; May 20.
- Aminoaryl mercaptans and di-(primary amino-aryl)disulfides as fungicides. Primary. E. C. Ladd. 2,429,095; Oct. 14.
- Amino-benzo-p-dioxans. Derivatives of. R. C. Conn, F. H. Adams, and J. P. Goulding. 2,419,334; Apr. 22.
- Aminobiphenylsulfonanilide. A. H. Popkin. 2,433,784; Dec. 30.
- Amino-ester compounds. C. M. Blair, Jr. 2,423,365; July 1.
- Amino ethers and preparing same. C. W. MacMullen and H. A. Bruson. 2,416,265; Feb. 18.



- Amino pentanols and esters thereof, Tertiary. S. A. Morell. 2,424,184; July 15.
- Aminopropionitriles, Preparation of. E. W. Cook and P. H. Moss. 2,425,693; Aug. 12.
- Amino-substituted acridines and making the same. J. H. Burckhalter, E. M. Jones, A. L. Rawlins, F. H. Tendick, and W. F. Holcomb. 2,428,355; Oct. 7.
- Ammelines with alkylene oxides, Condensation product of. W. P. Ericks. 2,413,755; Jan. 7.
- Ammeter and power meter, High-frequency. H. H. Grimm. 2,423,447; July 8.
- Ammeter, Bus bar mounted. S. S. Grady. 2,430,465; Nov. 11.
- Ammonia evolving composition. W. H. Fawkes. 2,431,470; Nov. 25.
- Ammonium haloethers, Quaternary. C. W. MacMullen and H. A. Bruson. 2,416,264; Feb. 18.
- Ammonium nitrate, Graining. R. C. Datin. 2,416,615; Feb. 25.
- Ammonium salts and preparing them, Quaternary. G. Balle, J. Rosenbach, and L. Orthner. 2,426,293; Aug. 28.
- Ammonium salts of melamine formaldehyde condensation products, Quaternary. H. J. West. 2,433,802; Dec. 30.
- Ammonium sulfamate, Producing. E. J. Tauch. 2,426,420; Aug. 26.
- Ammonium sulfate, Production of. J. S. A. J. M. van Aken. 2,415,772; Feb. 11.
- Ammonium sulphate, Production of. C. Otto. 2,423,794; July 8.
- Ammonium sulphate, Production of. C. Otto. 2,424,205-7; July 15.
- Ammunition. L. F. Birkeland. 2,433,334; Dec. 30.
- Ammunition. P. H. Burdett and J. H. Hodgson. 2,425,418; Aug. 12.
- Ammunition container. J. P. Stein. 2,426,798; Sept. 2.
- Ammunition feeding mechanism, Gun recoil-operated. D. W. Molins and F. F. Ruau. 2,418,656; Apr. 8.
- Amorphous carbon, Manufacture of. J. H. Ayers. Re. 22,886; June 3.
- Amphibian vehicle. B. A. Swennes. 2,413,850; Jan. 7.
- Amphibian vehicle. B. A. Swennes. 2,416,128; Feb. 18.
- Amphibian vehicle. A. R. Williams. 2,432,107; Dec. 9.
- Amplifier. E. Lidow. 2,418,516; Apr. 8.
- Amplifier circuit. J. G. Prentiss. 2,424,847; July 29.
- Amplifier, Current magnitude-ratio responsive. C. W. Hansell. 2,431,396; Nov. 25.
- Amplifier, Direct-current. R. V. Langmuir. 2,431,335; Nov. 25.
- Amplifier, Electric wave. E. Labin. 2,431,333; Nov. 25.
- Amplifier, Electrical. F. W. Cunningham. 2,429,124; Oct. 14.
- Amplifier, Electrical. C. T. McCoy. 2,429,419; Oct. 21.
- Amplifier, Electron discharge tube. G. J. Lehmann. 2,423,106; July 1.
- Amplifier, Feedback. G. T. Royden. 2,428,039; Sept. 30.
- Amplifier for small voltages. W. E. Sargeant and H. B. Hooper. 2,413,788; Jan. 7.
- Amplifier gain control. S. Berkoff. 2,430,699; Nov. 11.
- Amplifier, Hearing aid. H. B. Shapiro. 2,420,686; May 20.
- Amplifier, High-frequency. W. Hotine. 2,429,760; Oct. 28.
- Amplifier, High-frequency continuous. A. L. Samuel. 2,420,342; May 13.
- Amplifier, High gain. R. Adler and J. G. Prentiss. 2,426,681; Sept. 2.
- Amplifier, Hydraulic torque. H. B. Breedlove. 2,420,649; May 20.
- Amplifier, Negative feed-back. C. H. Elmendorf. 2,428,363; Oct. 7.
- Amplifier, Piano. J. H. Scott. 2,416,225; Feb. 18.
- Amplifier, Pulse. W. W. Moe. 2,414,968; Jan. 28.
- Amplifier, Pulse. R. B. Nelson. 2,416,114; Feb. 18.
- Amplifier, Radio transmitter. D. L. Hings. 2,416,831; Mar. 4.
- Amplifier system. C. G. Seright. 2,429,775; Oct. 28.
- Amplifier system, Selective pulse. J. L. Jones. 2,416,089; Feb. 18.
- Amplifier, Thermionic. P. K. Chatterjea and C. T. Scully. 2,431,306; Nov. 25.
- Amplifier, Thermionic valve. P. K. Chatterjea and C. T. Scully. 2,431,307; Nov. 25.
- Amplifier, Thermionic valve. M. M. Lévy. 2,416,334; Feb. 26.
- Amplifier, Ultra high frequency. R. B. Gethmann. 2,424,089; July 15.
- Amplifier, Ultra high frequency. S. G. Tomlin. 2,419,800; Apr. 29.
- Amplifier, Video and synchronizing signal combining. M. Cawein. 2,424,350; July 22.
- Amplifiers and oscillator, High-frequency. L. N. Brillouin. 2,424,965; Aug. 5.
- Amplifying and sound distribution system, Theater. F. Kieber. 2,424,634; July 29.
- Amplifying apparatus. R. C. Dehmel. 2,432,142; Dec. 9.
- Amplifying arrangement. A. J. Maddock. 2,433,380; Dec. 30.
- Amplifying device. A. B. Smith. 2,428,687; Oct. 7.
- Amplifying system. W. J. Field. 2,426,497; Aug. 26.
- Amplifying system. L. Hammond. 2,432,151; Dec. 9.
- Amplitude limiter circuit. W. R. Koch. 2,420,248; May 6.
- Amplitude modulation adapter system. M. G. Crosby. 2,433,093; Dec. 23.
- Amplitude modulation reducing circuit. N. I. Korman. 2,420,249; May 6.
- Ampule cutter. D. W. Fosler. 2,425,093; Aug. 5.
- Amusement apparatus. N. D. Wyckoff. 2,417,537; Mar. 18.
- Amusement device. H. T. Austin. 2,423,283; July 1.
- Amusement device. H. T. Austin. 2,432,709; Dec. 16.
- Amusement device. W. C. Ford. 2,424,354; July 22.
- Amusement device. A. M. Jordan. 2,413,831; Jan. 7.
- Amusement device. G. R. Lanman. 2,415,639; Feb. 11.
- Amusement device. J. M. Leach. 2,422,913; June 24.
- Amusement ride. N. Bartlett. 2,428,607; Oct. 7.
- Amusement ride. N. Bartlett. 2,433,807; Dec. 30.
- Amusement ride. M. W. Pace. 2,429,768; Oct. 28.
- Analgesic composition. T. B. Wallace. 2,427,887; Sept. 23.
- Analyzer. G. D. McCann, Jr., and H. E. Criner. 2,420,891; May 20.
- Analyzer, Continuous water. R. L. Tuve, J. C. White, and E. L. Luke. 2,430,895; Nov. 18.
- Analyzer, Exhaust gas. C. C. Minter. 2,428,121; Sept. 30.
- Analyzer for subterranean fluid reservoirs. W. A. Bruce. 2,423,754; July 8.
- Anastomosis ring. G. C. Miller. 2,428,918; Oct. 14.
- Anchor, Bottom hole gas. P. F. Barnhart. 2,429,043; Oct. 14.
- Anchor, Earth. O. F. Tallman. 2,427,934; Sept. 23.
- Anchor for plural electric conductors. C. H. Judisch. 2,421,456; June 3.
- Anchor for pole guys, Expanding. R. T. Chorley. 2,431,464; Nov. 25.
- Anchor for winches, Cable. M. M. Hall. 2,420,594; May 13.
- Anchor, Receptacle. G. P. Gandrud. 2,430,672; Nov. 11.
- Anchor, Releasable fluke. R. E. Newby. 2,415,805; Feb. 11.
- Anchor stake. C. E. Clapper. 2,431,608-9; Nov. 25.
- Anchorage for closure and the like, Fabric. R. A. Brenner. 2,422,391; June 17.
- Anchorage for frame straightening apparatus. R. W. Becker. 2,421,981; June 10.
- Anchoring means for abrasive disks. R. H. Homeyer. 2,418,883; Apr. 15.
- Anesthesia and surgery restraining device. R. G. Peterson. 2,425,489; Aug. 12.
- Angle-measuring instrument. J. P. Putnam. 2,423,049; June 24.
- Angle plate clamping bracket. C. W. Varcoe. 2,418,059; Mar. 25.
- Angular glued wood joint. C. D. Dosker. 2,413,912; Jan. 7.
- Angularly adjustable support. F. H. White. 2,433,314; Dec. 23.
- Anhydride, Manufacture of phthalic. R. F. Ruthruff. 2,425,398; Aug. 12.
- Anhydride, Preparation of chlormaleic. A. M. Clifford. 2,432,470; Dec. 9.
- Anhydro hexitols, Etherified. K. R. Brown. 2,420,519; May 13.
- Anhydrous calcium sulfate, Making. H. K. Linzell, H. E. Simpson, and M. C. Dailey. 2,418,590; Apr. 8.
- Anhydrous magnesium chloride, Preparing substantially. L. F. Marek. 2,417,772; Mar. 18.
- Animal fibers and products thereof, Treating. M. Harris and W. I. Patterson. 2,418,071; Mar. 25.
- Animal trap. L. A. Arnsperger. 2,414,627; Jan. 21.
- Animal trap. E. G. Hollenbeck. 2,416,481; Feb. 25.
- Animal trap. G. G. Meyer. 2,424,362; July 22.
- Animal trap. S. I. Newton. 2,429,367; Oct. 21.
- Animal trap. H. J. Peterson. 2,428,721; Oct. 7.
- Animal trap. W. W. Stout. 2,417,891; Mar. 25.
- Animal trap. J. L. Valley. 2,422,602; June 17.
- Animated illustration. H. C. Leech. 2,432,318; Dec. 9.
- Anion exchange materials and recovery of acids, Regeneration of. J. W. Cox and A. S. Behrman. 2,414,026; Jan. 7.
- Annealing box. M. L. Jacob. 2,414,530; Jan. 21.
- Annealing device for wire, Electrical resistance. J. S. Boyers. 2,421,537; June 3.
- Annealing furnace. C. B. Hoak. 2,432,239; Dec. 9.
- Annular objects, Inspection of. S. C. Hurley, Jr. 2,433,558; Dec. 30.
- Annular surfaces, Grinding. J. W. Alsdorf. 2,424,544; July 29.
- Anode construction, Rotating. Z. J. Atlee. 2,430,800; Nov. 11.
- Anode for primary cells, Making zinc roll. F. D. Williams, Jr. 2,422,606; June 17.
- Anode structure. Z. J. Atlee. 2,418,390; Apr. 1.
- Anode with cooling fins, External. C. H. Scullin. 2,431,144; Nov. 18.
- Anodes for intensive arcs. J. F. Parisot. 2,422,038; June 10.
- Anodic treatment of magnesium and its alloys to form protective coatings thereon. H. Waterman. 2,426,254; Aug. 26.
- Antenna. W. H. Bennett. 2,416,280; Feb. 25.
- Antenna. E. B. Bigué. 2,419,311; Apr. 22.
- Antenna. P. S. Carter. 2,413,745; Jan. 7.
- Antenna. M. A. Edwards. 2,415,678; Feb. 11.



- Antenna. M. A. Edwards, H. M. Ogle, and G. A. Hoyt. 2,415,679; Feb. 11.
- Antenna. C. W. Hansell. 2,423,648; July 8.
- Antenna. G. A. Hoyt. 2,415,680; Feb. 11.
- Antenna. H. Kees and F. Gehres. 2,431,124; Nov. 18.
- Antenna. N. E. Lindenblad. 2,414,266; Jan. 14.
- Antenna. R. W. Masters. 2,430,353; Nov. 4.
- Antenna. B. E. Montgomery. 2,418,084; Mar. 25.
- Antenna. A. H. Waite, Jr. 2,417,848; Mar. 25.
- Antenna. R. S. Wehner. 2,417,793; Mar. 18.
- Antenna arrangement for induction communication systems. H. E. Grimes. 2,419,833; Apr. 29.
- Antenna array. A. G. Kandoian. 2,419,562; Apr. 29.
- Antenna array. A. G. Kandoian. 2,429,629; Oct. 28.
- Antenna array, Directional. H. G. Busignies. 2,419,672; Apr. 29.
- Antenna array, Directive. A. G. Kandoian. 2,418,124; Apr. 1.
- Antenna. Coaxial half-wave microwave. N. Bishop. 2,421,593; June 3.
- Antenna construction, Loop. T. H. Clark and P. J. Vander Woude. 2,419,539; Apr. 29.
- Antenna, Directional microwave. C. C. Cutler. 2,422,184; June 17.
- Antenna, Directive. G. H. Brown and O. M. Woodward, Jr. 2,421,988; June 10.
- Antenna, Directive microwave. A. P. King. 2,427,005; Sept. 9.
- Antenna. Electromagnetic wave guide. W. W. Hansen. 2,432,990; Dec. 23.
- Antenna, End fire directive. N. E. Lindenblad. 2,425,887; Aug. 19.
- Antenna for aircraft, Broad band. R. S. Wehner. 2,418,961; Apr. 15.
- Antenna, Horn. H. O. Peterson and G. S. Wickizer. 2,425,488; Aug. 12.
- Antenna loading apparatus. J. W. Hammond. 2,414,809; Jan. 28.
- Antenna, Lobe switching. N. E. Lindenblad. 2,423,150; July 1.
- Antenna, Loop. H. G. Busignies and P. J. Vander Woude. 2,419,673; Apr. 29.
- Antenna mast base. N. Lee. 2,427,008; Sept. 9.
- Antenna, Microwave directive. G. E. Mueller. 2,425,336; Aug. 12.
- Antenna, Microwave radar directive. M. C. Biskeborn and A. G. Fox. 2,429,601; Oct. 28.
- Antenna mounting system. E. R. Touraton. 2,429,653; Oct. 28.
- Antenna positioning control. J. H. Broadbent. 2,422,180; June 17.
- Antenna, Scanning. C. B. H. Feldman. 2,419,556; Apr. 29.
- Antenna structure. N. Marchand. 2,426,632; Sept. 2.
- Antenna structure. H. A. Wheeler. 2,416,246; Feb. 18.
- Antenna structure, Directive. H. Langstroth. 2,415,103; Feb. 4.
- Antenna support. E. R. Touraton. 2,428,052; Sept. 30.
- Antenna system. G. H. Brown. 2,415,932-3; Feb. 18.
- Antenna system. G. H. Brown. 2,417,290; Mar. 11.
- Antenna system. G. H. Brown. 2,422,076; June 10.
- Antenna system. G. H. Brown. 2,432,558; Dec. 16.
- Antenna system. P. S. Carter. 2,418,951; Jan. 7.
- Antenna system. P. S. Carter. 2,417,808; Mar. 25.
- Antenna system. T. H. Clark. 2,419,538; Apr. 29.
- Antenna system. H. J. W. Fay. 2,428,793; Oct. 14.
- Antenna system. S. T. Fisher. 2,416,252; Feb. 18.
- Antenna system. W. D. Hershsberger. 2,430,568; Nov. 11.
- Antenna system. W. M. Hurst. 2,433,698; Dec. 30.
- Antenna system. L. L. Libby. 2,419,577; Apr. 29.
- Antenna system. E. O. Willoughby. 2,423,072; June 24.
- Antenna system. L. J. Wolf. 2,433,183; Dec. 23.
- Antenna system and using same. A. G. Kandoian. 2,433,369; Dec. 30.
- Antenna system, Directive. H. G. Busignies. 2,424,968; Aug. 5.
- Antenna system, Directive. C. B. H. Feldman. 2,419,205; Apr. 22.
- Antenna system for radio drift indication. P. S. Carter. 2,425,303; Aug. 12.
- Antenna system, Horn. A. C. Beck and H. T. Friis. 2,416,675; Mar. 4.
- Antenna system, Loop. E. Daubaras. 2,423,083; July 1.
- Antenna, Trailing. F. J. Berberich, Jr. 2,432,371; Dec. 9.
- Antenna tuning apparatus, Remotely controlled. P. J. Holmes. 2,430,173; Nov. 4.
- Antenna, Turnstile. R. C. Moore. 2,420,967; May 20.
- Antenna, Unidirectional. N. Marchand. 2,421,032; May 27.
- Antenna, Wave-signal. H. A. Wheeler. 2,425,585; Aug. 12.
- Antenna, Wave-signal. H. A. Wheeler. 2,432,057; Dec. 2.
- Antennas, Microwave. C. B. H. Feldman. 2,415,089; Feb. 4.
- Anthelmintic compositions and preparing same. J. A. Whiting. 2,428,444; Oct. 7.
- Anthraquinone acid dyestuff. J. G. Kern. 2,430,771; Nov. 11.
- Anthraquinone compounds. E. Gutzwiller. 2,433,551; Dec. 30.
- Anthraquinone dyestuffs. F. Lodge. 2,414,155; Jan. 14.
- Anthraquinone thioxanthone carbazoles in which the anthraquinone thioxanthone nucleus is linked to the carbazole nucleus through an amide linkage. M. Fritz and D. I. Randall. 2,428,759; Oct. 7.
- Anthrimide carbazole thioxanthones derived from 3,2-(S)-1,2,2-(S)-6'-halogen thioxanthones. F. Max and D. I. Randall. 2,428,758; Oct. 7.
- Anthrimides, Production of. J. M. Tinker and O. Stallmann. 2,420,022; May 6.
- Antibacklash device. W. E. Swift, Jr. Re. 22,852; Mar. 11.
- Antibacterial agent, Producing. J. H. Birkinshaw and S. E. Michael. 2,417,584; Mar. 18.
- Anticorrosion tank. C. M. Osterheld. 2,428,526; Oct. 7.
- Anticorrosive. E. R. White. 2,423,865; July 15.
- Antifogging composition. R. L. Gilbert, Jr. 2,416,051; Feb. 18.
- Antifogging composition. R. L. Gilbert, Jr. 2,416,254; Feb. 18.
- Antifogging composition. E. A. Vitalis. 2,414,074; Jan. 7.
- Antifriction bearing retainer. A. N. Larson. 2,417,559; Mar. 18.
- Antifriction medium for pneumatic tires. B. P. Thurber, Sr. 2,428,478; Oct. 7.
- Antifriction thrust bearing. W. Messinger. 2,430,359; Nov. 4.
- Antigens and preparing them. C. Nigg. 2,417,777; Mar. 18.
- Antigens of the lymphogranuloma-venereum-psittacosis group of agents and preparing them. W. E. Bunney and C. Nigg. 2,415,234; Feb. 4.
- Anti-hen-setting device. K. M. Swearingen. 2,418,144; Apr. 1.
- Antikickback clutch. W. C. Starkey. 2,421,814; June 10.
- Antioxidant. W. M. Smith and C. J. Wilson. Re. 22,909; Aug. 26.
- Antioxidant stabilized material. A. Taub and R. M. Simone. 2,432,698; Dec. 16.
- Antioxidants and producing same. L. O. Buxton. 2,433,593; Dec. 30.
- Antiplugging device. C. J. Burgy. 2,414,357; Jan. 14.
- Antiseize and sealing compound. J. P. Kelly. 2,419,144; Apr. 15.
- Antiseize composition. B. Costello. 2,424,224; July 22.
- Antiseptic urea peroxide-glycerol solution. E. A. Brown, M. H. Gorin, and H. A. Abramson. 2,430,450; Nov. 11.
- Anti-siphon valve. D. G. Griswold. 2,417,357; Mar. 11.
- Antiskid chain. J. F. Owings. 2,420,758; May 20.
- Antiskid device. J. E. Allan. 2,419,105; Apr. 15.
- Antiskid device. C. T. Asbury. 2,431,981; Dec. 2.
- Antiskid device. O. H. Bernkull. 2,424,647; July 29.
- Antiskid device. A. J. Cook. 2,433,435-6; Dec. 30.
- Antiskid device. A. K. Stevens. 2,422,595; June 17.
- Antiskid device. E. H. Zimmer. 2,429,788; Oct. 28.
- Antiskid device for chairs. W. H. Rabe. 2,423,659; July 8.
- Antiskid device for vehicles. M. Marthinsen. 2,432,329; Dec. 9.
- Antiskid equipment, Wheel. J. W. Richardson and J. Cuneo. 2,427,510; Sept. 16.
- Antislip attachment for shoes. C. W. Rosenbarger. 2,426,524; Aug. 26.
- Antislip surface. G. Trautvetter and F. Lambert. 2,421,171; May 27.
- Antislipping device for railway cars. A. F. Anderson. 2,431,445; Nov. 25.
- Antisludge tool. C. E. Carner. 2,415,553; Feb. 11.
- Antisnore device. W. J. Faires. 2,424,533; July 22.
- Anti-tank mine actuator. J. M. King. 2,420,317; May 13.
- Antitorque means for helicopters. C. S. Whiting. 2,433,251; Dec. 23.
- Antivesicant preparations. C. B. Marquand and T. W. Kethley. 2,432,114; Dec. 9.
- Anti-water-hammer device. A. Shaff. 2,416,025; Feb. 18.
- Anvil and pivoted jaw operated cap sealing machine. A. Podel. 2,421,963; June 10.
- Anvil unit for rivet setting machines. T. J. Doyle. 2,433,103; Dec. 23.
- Aperture for light meters, Light acceptance. R. D. Hickok. 2,427,528; Sept. 16.
- Aperture objective, Extreme. E. K. Kaprelian. 2,424,827; July 29.
- Apertured reflector fan-electric-heater. G. M. Marr. 2,433,137; Dec. 23.
- Apparatus and method of forming corrugations. L. M. Puster. 2,426,949; Sept. 2.
- Apparatus for abrading surfaces. B. E. Luboshez. 2,423,715; July 8.
- Apparatus for absorbing shock loads. R. O. Anderson and W. E. Walsh. 2,429,253; Oct. 21.
- Apparatus for advancing strip material. C. B. Lubbert. 2,425,382; Aug. 12.
- Apparatus for amalgam decomposition. M. C. Taylor. 2,423,351; July 1.
- Apparatus for appendage hollow dinnerware. W. J. Miller. 2,416,636; Feb. 25.
- Apparatus for applying a tubular fabric cover to rolls. N. A. Mack. 2,426,401; Aug. 26.
- Apparatus for applying coating material to a series of objects. J. H. Flink. 2,417,920; Mar. 25.
- Apparatus for applying heat and pressure to strip material. J. C. Crowley. 2,433,094; Dec. 23.



- Apparatus for applying load to testing machines. J. Sivertsen. 2,421,295; May 27.
- Apparatus for applying reinforcing members to electron discharge tubes. N. B. Krim. 2,433,373; Dec. 30.
- Apparatus for assembling articles. E. J. Larsen. 2,426,623; Sept. 2.
- Apparatus for assembling articles. R. Polivka. 2,430,365; Nov. 4.
- Apparatus for assembling can parts. P. R. Rund. 2,433,066; Dec. 23.
- Apparatus for assembly of mounts. E. W. Schafer. 2,425,127; Aug. 5.
- Apparatus for attenuating thermoplastic materials. E. Fletcher and H. Snow. 2,418,873; Apr. 15.
- Apparatus for automatically adjusting the angular plane of dry concentrating tables. G. A. Bastanchury. 2,429,543; Oct. 21.
- Apparatus for automatically controlling discharge of settled particles in a hydraulic classifier. J. B. McKay. 2,425,551; Aug. 12.
- Apparatus for automatically controlling pressure and temperature within aircraft cabins. W. W. Paget. 2,425,000; Aug. 5.
- Apparatus for automatically operating dump truck tail gates. E. L. Foy. 2,419,636; Apr. 29.
- Apparatus for automatically processing film. V. E. Pratt, G. F. Gray, and D. E. Reed. 2,428,681; Oct. 7.
- Apparatus for averaging data such as range finder data. J. W. French. 2,428,212; Sept. 30.
- Apparatus for bending. A. E. Varner and F. M. Pittingill. 2,431,353; Nov. 25.
- Apparatus for bending and driving in staples. R. C. Hazewinkel. 2,422,641; June 17.
- Apparatus for bending or flaring metal tubing. H. E. Veit and W. C. Miles. 2,421,667; June 3.
- Apparatus for bending pipe. W. R. Linden and H. H. Moss. 2,433,055; Dec. 23.
- Apparatus for bombardier training apparatus, Projection. G. F. Daly. 2,417,354; Mar. 11.
- Apparatus for brazing radially extending plates to the interior of a tube. W. C. Brown. 2,433,339; Dec. 30.
- Apparatus for burning holes in metal. H. J. Burnett. 2,427,588; Sept. 16.
- Apparatus for butt welding. H. A. Bissout and W. Y. Borresen. 2,415,987; Feb. 18.
- Apparatus for carrying out chemical reactions in the presence of finely divided powder. B. E. Roetheli. 2,422,501; June 17.
- Apparatus for carving propeller blades. G. F. Landgraf. 2,425,543; Aug. 12.
- Apparatus for casting dental restorations. I. Hordes. 2,421,698; June 3.
- Apparatus for casting metals continuously. H. W. Spooner. 2,424,640; July 29.
- Apparatus for casting steel rolls. E. H. Mebs. 2,431,879; Dec. 2.
- Apparatus for catalytic conversion. T. P. Simpson, J. W. Payne, and J. A. Crowley, Jr. 2,419,508; Apr. 22.
- Apparatus for catching shrimp. H. L. Miller. 2,414,055; Jan. 7.
- Apparatus for cementing wells. L. H. Hayward. 2,431,751; Dec. 2.
- Apparatus for charging molds for gears. W. R. Scherer. 2,425,835; Aug. 19.
- Apparatus for chemical fractionation. C. A. Kraus, A. S. Lehmann, C. L. Morris, and C. R. Witschonke. 2,424,399; July 22.
- Apparatus for circulating solutions. E. L. Schultz. 2,433,532; Dec. 30.
- Apparatus for cladding metal bodies. E. A. Doyle. 2,414,510; Jan. 21.
- Apparatus for cleaning and coating wire. J. A. Bassett and A. S. Niemiec. 2,432,854; Dec. 16.
- Apparatus for cleaning and otherwise treating small articles. W. E. Curran. 2,427,388; Sept. 16.
- Apparatus for cleaning knitting machines. J. L. Allen. 2,422,514; June 17.
- Apparatus for cleaning open hearth checker work and the like. J. H. Nelder. 2,418,045; Mar. 25.
- Apparatus for cleaning watchworks and the like mechanisms. I. Friedman. 2,416,475; Feb. 25.
- Apparatus for coating aggregates. J. Giordano. 2,420,368; May 13.
- Apparatus for coating articles. H. Osterberg and P. C. Heijn. 2,416,211; Feb. 18.
- Apparatus for coating articles. H. P. Ransburg and R. E. Helmuth. 2,417,798; Mar. 18.
- Apparatus for coating bananas. R. O. Hockman and W. C. Reiman. 2,429,130; Oct. 14.
- Apparatus for coating cathodes. R. O. Morse. 2,431,135; Nov. 18.
- Apparatus for coating flexible webs. L. O. Goff. 2,423,768; July 8.
- Apparatus for coating fluorescent lamp tubes. K. Demb and M. L. Hayes. 2,431,658; Nov. 25.
- Apparatus for coating ice cream bars, Dipping. L. D. Overland. 2,418,190; Apr. 1.
- Apparatus for coating metals. H. A. Toulmin, Jr. 2,424,261; July 22.
- Apparatus for coating paper. W. H. Barrett and B. K. Asdell. 2,416,789; Mar. 4.
- Apparatus for coating surfaces. S. V. Peterson and A. F. Turner. 2,420,722; May 20.
- Apparatus for coating the inner walls of bulbs. J. J. Malloy. 2,415,512; Feb. 11.
- Apparatus for coating wire and the like. W. G. Dahlstrom. 2,429,870; Oct. 28.
- Apparatus for cocoa beans, Disc type shell cracking. W. T. Jones. 2,417,078; Mar. 11.
- Apparatus for coiling volute springs. L. A. Klee. 2,431,668; Nov. 25.
- Apparatus for cold bending of large diameter thin walled pipe. J. D. Cummings. 2,428,764; Oct. 7.
- Apparatus for collecting fluid samples. E. J. Grace, Jr. 2,418,876; Apr. 15.
- Apparatus for compartment heating. R. R. Anderson. 2,417,463; Mar. 18.
- Apparatus for completing wells. P. K. Ozlinga. 2,425,202; Aug. 5.
- Apparatus for concentrating drugs. C. N. Hoyler. 2,427,786; Sept. 23.
- Apparatus for conditioning pavement material. W. F. Chester. 2,413,908; Jan. 7.
- Apparatus for conditioning pottery molds. W. J. Miller. 2,426,518; Aug. 26.
- Apparatus for conditioning tobacco. R. D. Touton. 2,418,281; Apr. 1.
- Apparatus for conducting electricity through lengths of continuously advancing electrically conductive material to heat the same. G. P. Bosomworth and E. B. Huffman. 2,415,027; Jan. 28.
- Apparatus for connecting metallic strips. D. N. Cooley. 2,426,670; Sept. 2.
- Apparatus for constructing aircraft wings. L. C. Miller and G. E. Scarlett. 2,428,674; Oct. 7.
- Apparatus for contacting fluids and solids. L. P. Evans. 2,416,165; Feb. 18.
- Apparatus for contacting fluids with subdivided solids. C. H. Angell. 2,433,726; Dec. 30.
- Apparatus for contacting gases with moving particle form solid material. L. P. Evans. 2,430,420; Nov. 4.
- Apparatus for contacting solid particles with gaseous fluids. B. B. Russell, 3rd. 2,422,262; June 17.
- Apparatus for contacting solids with gaseous fluid. H. J. Ogorzaly, H. Z. Martin, and J. V. Marancik. 2,415,755; Feb. 11.
- Apparatus for continuously cooling liquids, including liquefied fats, oils, or the like. H. L. Murray. 2,433,475; Dec. 30.
- Apparatus for continuously heating a plurality of metal strips, Electric induction heating. G. P. Wilson. 2,417,029; Mar. 4.
- Apparatus for continuously recording the path of flight of aircraft. F. Q. Rast. 2,424,118; July 15.
- Apparatus for continuously sheathing cores of material. G. H. Sittner. 2,427,930; Sept. 23.
- Apparatus for controlling electric motors. O. W. Livingston. 2,421,632; June 3.
- Apparatus for controlling gun chargers. H. C. Grant, Jr. 2,423,446; July 8.
- Apparatus for controlling missiles in flight. P. B. Hunter. 2,414,103; Jan. 14.
- Apparatus for controlling primary and secondary fuels. H. Ziebolz. 2,418,388; Apr. 1.
- Apparatus for controlling the movement of fabric through processing chambers. J. Cook, D. M. McSpadden and W. L. Thornburg. 2,431,372; Nov. 25.
- Apparatus for controlling the rate of discharge from a liquid distributor from changes in the liquid head within the distributor. H. W. Gillard. 2,429,312; Oct. 21.
- Apparatus for controlling the release of bombs from aircraft. E. S. Peterson. 2,428,581; Oct. 7.
- Apparatus for converting electrical condenser discharges into mechanical power. A. Vang. 2,425,767; Aug. 19.
- Apparatus for converting tow to top. V. R. Hardy. 2,413,969; Jan. 7.
- Apparatus for cooking meats and the like. R. A. Coffman. 2,423,963; July 15.
- Apparatus for cooling air by liquid contact. J. A. DeVilbiss. 2,430,110; Nov. 4.
- Apparatus for cooling and dispensing articles. F. Glassford. 2,432,749; Dec. 16.
- Apparatus for cooling containers. J. F. Earp. 2,415,677; Feb. 11.
- Apparatus for cooling cylinders. R. P. Sweger. 2,422,936; June 24.
- Apparatus for cooling under ultra violet radiation and vacuum conditions. W. L. Maxson. 2,425,816; Aug. 19.
- Apparatus for counting jewels, Perforated plate. J. O. Le Van. 2,432,319; Dec. 9.
- Apparatus for covering rayon packages. A. J. L. Moritz. 2,418,657; Apr. 8.
- Apparatus for cutting and packaging sheets of material. J. J. and C. Treis. 2,433,535; Dec. 30.
- Apparatus for cutting bars, tubes, and the like. G. L. Dannehower and W. B. Heinz. 2,422,531; June 17.
- Apparatus for cutting fibers. D. C. Thompson, R. V. Dodge, Jr., and S. C. Nichols. 2,427,167; Sept. 9.
- Apparatus for cutting metal. H. G. Hughey. 2,426,690; Sept. 2.
- Apparatus for cutting quartz oscillator blanks. W. C. Speed. 2,413,795; Jan. 7.
- Apparatus for cutting rubber sheet stock and the like. H. E. Riggs. 2,424,709; July 29.
- Apparatus for cutting sheet metal and the like. F. E. Waring. 2,419,382; Apr. 22.



- Apparatus for cutting spiral grooves in grooved rolls. W. T. Fields and E. M. D. Herold. 2,416,518; Feb. 25.
- Apparatus for cutting tubes. H. T. Herbst. 2,417,412; Mar. 18.
- Apparatus for decorating pottery ware. W. J. Miller. 2,419,963; May 6.
- Apparatus for delivering and grouping hair fasteners. F. D. Reynolds. 2,432,339; Dec. 9.
- Apparatus for delivering liquids and viscous materials. H. Parker and T. C. E. Rowland. 2,420,970; May 20.
- Apparatus for delivering measured quantities of liquid by volume from bottles or similar vessels. N. F. Gottschalk. 2,419,891; Apr. 29.
- Apparatus for deodorization of animal oils and vegetable oils. D. K. Dean. 2,422,185; June 17.
- Apparatus for detecting and indicating and/or measuring ice formation on vehicles. C. C. S. Le Clair. 2,419,454; Apr. 22.
- Apparatus for detecting defects in electrical systems. L. Martenet. 2,422,644; June 17.
- Apparatus for detecting flaws in rails. W. C. Barnes and H. W. Keovil. 2,425,857; Aug. 19.
- Apparatus for determining gauge of metal strip. R. W. Crothers and E. E. Vonada. 2,432,727; Dec. 16.
- Apparatus for determining the partial pressure in a mixture of gases. L. Pauling. 2,416,344; Feb. 25.
- Apparatus for determining the vapor content of gas. H. O. McMahon. 2,429,474; Oct. 21.
- Apparatus for determining the water vapor content of aviation breathing oxygen. R. M. Bolton. 2,420,648; May 20.
- Apparatus for developing wells. H. E. Lauman. 2,423,653; July 8.
- Apparatus for dewaxing oils. E. M. Dons and O. G. Mauro. 2,420,418; May 13.
- Apparatus for die-shaping sheet metal. J. Ransom. 2,422,800; June 24.
- Apparatus for dimpling sheet material and preheating the area to be dimpled. W. W. Williams. 2,424,643; July 29.
- Apparatus for directing guns. R. F. Garbarini and W. G. Wing. 2,423,831; July 15.
- Apparatus for directional signaling. R. L. Williams. 2,426,657; Sept. 2.
- Apparatus for discharging fluids under pressure. D. Mapes and E. Du Pont. 2,417,082; Mar. 11.
- Apparatus for discharging insecticide from airplanes. A. C. Wilson. 2,427,987; Sept. 23.
- Apparatus for disinfecting casings (Intestines), especially catgut, Electrical. L. Arnanz. 2,425,422; Aug. 12.
- Apparatus for dispensing gummed tape. R. E. Engberg. Re. 22,945; Dec. 2.
- Apparatus for disseminating materials in liquids. E. Cowles. 2,424,679; July 29.
- Apparatus for distending fabricated box covers and applying the same to filled boxes. W. F. Linstedt. 2,433,701; Dec. 30.
- Apparatus for drawing flat metal blanks into shells. H. H. Gary, Jr. 2,418,874; Apr. 15.
- Apparatus for dressing and drying hair. O. R. Nemeth. 2,423,252; July 1.
- Apparatus for dressing involute surfaces on grinding wheels. W. Shotey. 2,424,507; July 22.
- Apparatus for driving loads at constant speed, Power. L. A. Trofimov. 2,429,570; Oct. 21.
- Apparatus for drying foundry molds. C. A. Barnett and J. M. Beyvl. 2,417,673; Mar. 18.
- Apparatus for drying, heating, and/or cooling flowable solids. J. L. Erisman. 2,424,228; July 22.
- Apparatus for drying webs. B. Offen. 2,417,011; Mar. 4.
- Apparatus for drying webs by radiant and convection heating. F. W. Adams. 2,427,892; Sept. 23.
- Apparatus for effecting chemical reactions. H. L. Griswold and A. T. Cape. 2,421,120; May 27.
- Apparatus for effecting clarification of turbid liquids. R. B. Carter, Jr. 2,422,656; June 24.
- Apparatus for effecting navigational calculations. B. H. C. Matthews. 2,424,178; July 15.
- Apparatus for ejecting from blanks being fed to can body making machines and the like, double-fed and over-thick blanks. P. Kruse. 2,426,887; Sept. 2.
- Apparatus for electric discharge lamps, Starting and controlling. J. H. Campbell. 2,418,159-61; Apr. 1.
- Apparatus for electric welding of studs. A. M. Candy. 2,421,184; May 27.
- Apparatus for electrically welding spiral tubing. D. W. Fentress. 2,431,743; Dec. 2.
- Apparatus for electrodepositing metal on bearing shells and the like. W. M. Martz. 2,431,948; Dec. 2.
- Apparatus for electromechanically synchronizing a photo-electrically operated signaling system. W. H. Skilling. 2,427,815; Sept. 23.
- Apparatus for electroplating articles having pockets or recesses therein. J. V. Lundstrom. 2,432,322; Dec. 9.
- Apparatus for electroplating the inside of bearing shells and the like. W. M. Martz. 2,431,949; Dec. 2.
- Apparatus for electrostatic separation of material particles. E. L. Wiegand. 2,414,993; Jan. 28.
- Apparatus for encasing tubular conduits. P. S. Van Orden. 2,432,701; Dec. 16.
- Apparatus for enumerating and indicating the number of available seats on the decks of passenger carrying vehicles. G. H. Colt and A. J. Chappell. 2,421,774; June 10.
- Apparatus for establishing a vacuum in manometer-type instrument. C. F. Wallace. 2,418,379; Apr. 1.
- Apparatus for exploding land mines. B. Walker. 2,425,357; Aug. 12.
- Apparatus for fabricating parts by bonding strips of material. J. S. Pecker. 2,422,979; June 24.
- Apparatus for fabricating pipe units and the like. J. A. Woods. 2,431,101; Nov. 18.
- Apparatus for feeding and drying fabrics. H. W. Butterworth, Jr., S. and M. Cohn, and J. G. Walter. 2,427,943; Sept. 23.
- Apparatus for feeding clay to molds in the manufacture of pottery ware. W. J. Miller. 2,421,572; June 3.
- Apparatus for feeding cut tobacco. F. F. Ruau. 2,416,020; Feb. 18.
- Apparatus for feeding granular material into a fluid stream. W. A. Thomas. 2,420,388; May 13.
- Apparatus for feeding granular salt into a fused salt electrolysis cell. G. E. Smedberg. 2,432,973; Dec. 16.
- Apparatus for feeding material. A. Deichmiller. 2,428,698; Oct. 7.
- Apparatus for feeding solution to water comprising receptacles having vertically adjustable chambers connected therewith. R. H. Geiser. 2,423,379; July 1.
- Apparatus for fillet arc welding. J. M. Tyrner. 2,421,095; May 27.
- Apparatus for filling containers. R. B. McKinnis. 2,421,708; June 3.
- Apparatus for filling containers with measured charges of material. P. E. Pearson and A. Treff. 2,433,061; Dec. 23.
- Apparatus for filling containers with weighed quantity of gaseous fluid. G. C. Spaulding. 2,425,844; Aug. 19.
- Apparatus for filling tires with fluid. W. W. McMahan. 2,415,019; Jan. 28.
- Apparatus for finishing piezoelectric crystals. K. B. Ross. 2,416,716; Mar. 4.
- Apparatus for fire-polishing glass articles. E. M. Guyer. 2,422,482; June 17.
- Apparatus for flame cultivation of plants. P. C. McLemore and V. Knudsen. Re. 22,836.
- Apparatus for flanging and curving metal strips. E. J. Boddy. 2,420,064; May 6.
- Apparatus for flanging inwardly or outwardly. H. L. Johnson. 2,427,003; Sept. 9.
- Apparatus for flanging sheet metal strips. W. W. MacArthur and G. L. F. Welham. 2,422,838; June 24.
- Apparatus for flanging sheet metal strips. R. Perkins. 2,422,846; June 24.
- Apparatus for flanging sheet metal strips. G. L. F. Welham. 2,424,947; July 29.
- Apparatus for floors and similar surfaces, Polishing. G. J. Soderberg. 2,417,620; Mar. 18.
- Apparatus for fluid treating roll film. P. R. Tarr and D. C. Cline. 2,419,859; Apr. 29.
- Apparatus for forming and assembling inner spring constructions. E. E. Woller. 2,420,511; May 13.
- Apparatus for forming annular fins on tubing. O. R. Schuler. 2,429,491; Oct. 21.
- Apparatus for forming bottles and jars. A. H. Johnson. 2,414,306; Jan. 14.
- Apparatus for forming end closures in paper containers. J. Coyle. 2,423,965; July 15.
- Apparatus for forming finned tubing. G. E. Clifford. 2,431,863; Dec. 2.
- Apparatus for forming molded bodies on articles. G. C. Wilson. 2,433,412; Dec. 30.
- Apparatus for forming test samples of electrolytic tin plate. A. F. Wells, Jr., and P. C. Mackley. 2,431,528; Nov. 25.
- Apparatus for forming wire coils. A. J. Garreau. 2,431,928; Dec. 2.
- Apparatus for freezing liquids. W. W. Mayne and K. A. Murphy. 2,426,368; Aug. 26.
- Apparatus for frequency multiplication of alternating electric currents. A. H. B. Walker. 2,420,213; May 6.
- Apparatus for furnaces, Reversing. O. Reiner. 2,416,953; Mar. 4.
- Apparatus for fusing the coating on tablets. G. C. Miller. 2,421,801; June 10.
- Apparatus for gaging and assorting bullet cores according to size and shape. S. A. Oakley. 2,422,036; June 10.
- Apparatus for generating involutes. E. A. Cooke. 2,420,931; May 20.
- Apparatus for generating sweep voltages. H. E. Etter. 2,423,931; July 15.
- Apparatus for grinding articles of irregular form. R. Davies. 2,421,548; June 3.
- Apparatus for grinding bushings. P. F. Danielson. 2,418,871; Apr. 15.
- Apparatus for grinding food in a vacuum chamber. H. A. Appel and E. J. Le Blanc. 2,425,912; Aug. 19.
- Apparatus for gun fire control. R. E. Crooke. 2,419,886; Apr. 29.
- Apparatus for gunfire control. W. W. Willard and R. E. Crooke. 2,424,071; July 15.
- Apparatus for handling and separating sheetlike material. W. A. Ward. 2,417,145; Mar. 11.
- Apparatus for handling coils. D. O. Olson. 2,430,075; Nov. 4.
- Apparatus for handling concrete blocks. R. M. Gray. 2,423,557; July 8.



- Apparatus for handling contact masses. C. H. Lechthaler and R. Lee. 2,423,813; July 8.
- Apparatus for handling dust. F. B. Allen. 2,421,977; June 10.
- Apparatus for handling metallic strip. G. H. Rendel. 2,433,014; Dec. 23.
- Apparatus for handling plant products. H. C. Brest. 2,429,386; Oct. 21.
- Apparatus for handling propellers. S. A. Shuler, Jr. 2,431,589; Nov. 25.
- Apparatus for handling trucks and the like. P. H. Sleeper. 2,424,196; July 15.
- Apparatus for handling welding rods or the like. W. E. Hardy. 2,416,690; Mar. 4.
- Apparatus for heat sealing. W. R. P. Delano. 2,424,558; July 29.
- Apparatus for heating and controlling the temperature in a continuously operating digester. J. C. F. C. Richter. 2,414,062; Jan. 7.
- Apparatus for heating ingots. F. A. Corbin and H. F. Netzhammer. 2,420,357; May 13.
- Apparatus for heating oil and other fluid media. L. P. Hynes. 2,421,562; June 3.
- Apparatus for heating oils. J. E. Bogk. 2,415,726; Feb. 11.
- Apparatus for heating viscous material. H. A. Cartwright. 2,426,860; Sept. 2.
- Apparatus for heating water and other liquids. J. F. Tutein. 2,430,837; Nov. 11.
- Apparatus for high-frequency induction heating of strips. B. Cassen and R. M. Baker. 2,419,116; Apr. 15.
- Apparatus for hot coating of metal strip and the like. W. E. Marshall. 2,430,474; Nov. 11.
- Apparatus for hot pressing powdered metal. W. R. Tucker. 2,431,095; Nov. 18.
- Apparatus for humidifying and cleaning gaseous fluids such as air. W. L. Fleisher. 2,429,265; Oct. 21.
- Apparatus for humidifying and cleaning gaseous fluids such as air. W. L. Fleisher. 2,431,389; Nov. 25.
- Apparatus for hydrocarbon reaction. L. P. Evans. 2,417,393; Mar. 11.
- Apparatus for ice removing mechanism, Inflation. W. H. Hunter. 2,422,624; June 17.
- Apparatus for indicating cyclic pressure fluctuations. P. H. Schweitzer. 2,427,370; Sept. 16.
- Apparatus for indicating teletypewriter speeds. W. B. Martin. 2,421,954; June 10.
- Apparatus for indirect X-ray photography. A. Bouwers. 2,419,478; Apr. 22.
- Apparatus for induction heating of gears and like objects. F. J. Groven and W. F. Pioch. 2,424,816; July 29.
- Apparatus for inspecting tin plate or the like. G. E. Mirfield and E. H. Connor. 2,430,526; Nov. 11.
- Apparatus for inspection of paper strips, Photoelectric. L. T. Sachtleben. 2,429,331; Oct. 21.
- Apparatus for insulating conductors. R. T. Adams. 2,422,281; June 17.
- Apparatus for introducing high voltages into containers. D. W. Turner. 2,432,263; Dec. 9.
- Apparatus for jacking up and lowering motor vehicle wheels. G. H. Foss. 2,420,130; May 6.
- Apparatus for joining wires and the like by fusion. G. Gilliver. 2,417,819; Mar. 25.
- Apparatus for kneading and mixing rubber. K. Frei. 2,415,091; Feb. 4.
- Apparatus for knitting scouring cloths. D. J. Cosgro. 2,423,484; July 8.
- Apparatus for lamp bulb sealing. R. B. Thomas. 2,432,491; Dec. 9.
- Apparatus for lapping quartz oscillator plates. I. S. Primus. 2,419,033; Apr. 15.
- Apparatus for lasting shoes. J. S. Kamborian. 2,424,240; July 22.
- Apparatus for lifting fluid. G. L. Thompson and L. A. Cejka. 2,416,359; Feb. 25.
- Apparatus for lifting fluids. J. D. Nixon. 2,418,788; Apr. 8.
- Apparatus for lining caps. J. Belada. 2,416,249; Feb. 18.
- Apparatus for liquid storage tanks, Gaging and sampling. J. H. Wiggins. 2,422,869; June 24.
- Apparatus for loading shells. T. F. Knight. 2,426,619; Sept. 2.
- Apparatus for loading trucks. J. Katinos, Jr. 2,422,910; June 24.
- Apparatus for locating leaks. A. Stern. 2,430,034; Nov. 4.
- Apparatus for locating leaks in cans. J. E. Schmidt. 2,432,814; Dec. 16.
- Apparatus for locating sound sources. F. Massa. 2,414,695; Jan. 21.
- Apparatus for lubricating engine pistons and cylinders. L. M. Boucher. 2,416,429; Feb. 25.
- Apparatus for mail treating machines, Tape feeding and cutting. C. D. Ryan and E. P. Drake. 2,419,288; Apr. 22.
- Apparatus for maintaining a condition of substantially constant value. E. X. Schmidt. 2,415,913; Feb. 18.
- Apparatus for maintaining a controlled recirculation of carrier medium through an air-swept pulverizer. J. L. Harvey. 2,428,422; Oct. 7.
- Apparatus for making accreted fibrous products. R. H. Curtis. 2,416,680; Mar. 4.
- Apparatus for making basic furnace linings and bottoms. W. S. Debenham. 2,426,673; Sept. 2.
- Apparatus for making can body seams. W. Elser. 2,430,219; Nov. 4.
- Apparatus for making cellular masses. R. M. Urquhart. 2,418,858; Apr. 15.
- Apparatus for making coffee infusions. B. Bogoslowsky. 2,422,944; June 24.
- Apparatus for making coiled yarn. T. J. Rhodes. 2,432,935; Dec. 16.
- Apparatus for making computations electrically. W. B. Klemperer and E. H. Pier. 2,427,463; Sept. 16.
- Apparatus for making confectionery. J. J. Allkonis. 2,424,950; July 29.
- Apparatus for making convolute wound tubing from sheet material. B. Bogoslowsky. 2,424,540; July 29.
- Apparatus for making cord and the like. A. H. Burkholder, G. P. Standley, and K. M. McLellan. 2,419,055; Apr. 15.
- Apparatus for making dentures. J. D. Schwartz. 2,432,820; Dec. 16.
- Apparatus for making fine fibers. A. W. Hanson. 2,417,751; Mar. 18.
- Apparatus for making ice. W. B. Kirkpatrick. 2,414,264; Jan. 14.
- Apparatus for making geophysical surveys under water. J. W. Flude. 2,423,591; July 8.
- Apparatus for making optical wedges. A. F. Turner and O. A. Ullrich, Jr. 2,432,950; Dec. 16.
- Apparatus for making pipe from thermoplastic resin. W. T. Stephenson and J. A. Palmer. 2,414,776; Jan. 21.
- Apparatus for making precision-bore tubes. G. W. Pfeiffer. 2,423,113; July 1.
- Apparatus for making resinous artificial board. C. A. Upson. 2,416,721; Mar. 4.
- Apparatus for making soap cakes having desired insignia. L. A. Block. 2,423,576; July 8.
- Apparatus for making stereo pictures. F. A. Ramsdell. 2,413,996; Jan. 7.
- Apparatus for making tubular fibrous products. H. W. Collins. 2,428,653; Oct. 7.
- Apparatus for making wallboards. W. G. Brubacher. 2,428,512; Oct. 7.
- Apparatus for manufacturing electron discharge devices. W. S. Brian. 2,422,945; June 24.
- Apparatus for manufacturing fibrous glass. G. Slayter. 2,431,205; Nov. 18.
- Apparatus for manufacturing long fibre into yarn. S. E. Thomas and W. R. Guthrie. 2,418,996-8; Apr. 15.
- Apparatus for manufacturing strainless glass sheets. H. Yamamoto. 2,422,640; June 17.
- Apparatus for manufacturing wire coat hangers. N. W. Coker. 2,430,805; Nov. 11.
- Apparatus for measuring depth of water. L. S. Chappell. 2,414,091; Jan. 14.
- Apparatus for measuring distances. R. Wellenstein. 2,415,119; Feb. 4.
- Apparatus for measuring mechanical vibrations. E. L. Kent and R. C. Treseder. 2,429,094; Oct. 14.
- Apparatus for measuring pulmonary capacity of human beings. F. W. Koehler and J. W. G. Hannon. 2,427,145; Sept. 9.
- Apparatus for measuring relative displacement or the thicknesses of materials. A. W. Storm. 2,431,841; Dec. 2.
- Apparatus for measuring short time intervals. M. M. Levy. 2,419,576; Apr. 29.
- Apparatus for measuring surface roughness. M. Mooney. 2,417,988; Mar. 25.
- Apparatus for measuring the degree of roughness of surfaces. R. E. Reason. 2,421,578; June 3.
- Apparatus for measuring the density of liquids. O. Weiss. 2,416,808; Mar. 4.
- Apparatus for measuring the dwell and frequency of electrical impulses. T. H. Long. 2,423,194; July 1.
- Apparatus for measuring the ratio or product of two alternating voltages. J. E. Owen. 2,419,852; Apr. 29.
- Apparatus for measuring voltages. E. L. Kent. 2,425,811; Aug. 19.
- Apparatus for mechanically operating keyboards of typewriters and the like. W. B. Drewell. 2,433,349; Dec. 30.
- Apparatus for mining. J. B. Mavor. 2,420,755; May 20.
- Apparatus for mining and loading coal. R. Peale and R. Peale, Jr. 2,430,364; Nov. 4.
- Apparatus for mining coal or similar mineral. G. A. Merchant. 2,424,180; July 15.
- Apparatus for mixing and blending fluids. G. G. Schmidt. 2,432,175; Dec. 9.
- Apparatus for mixing drilling mud. J. I. Sloan. 2,423,801; July 8.
- Apparatus for mixing fluids. P. Lloyd. 2,426,833; Sept. 2.
- Apparatus for molding and handling concrete slabs. J. H. Wilson. 2,416,559; Feb. 25.
- Apparatus for molding articles. A. C. Frankwich and S. M. Martin. 2,428,275; Sept. 30.
- Apparatus for molding helical screws. F. W. Ortman. 2,418,599; Apr. 8.
- Apparatus for molding soles for footwear. J. Gregg. 2,428,664; Oct. 7.
- Apparatus for molding wire core temples. A. J. Desimone. 2,418,823; Apr. 15.
- Apparatus for molding wood or the like material. J. Young. 2,414,917; Jan. 28.



- Apparatus for mounting photographs. M. Shapiro. 2,415,766; Feb. 11.
- Apparatus for mounting thin metallic foil on carrying webs. R. S. Reynolds. 2,428,385; Oct. 7.
- Apparatus for nesting pipe elbows. L. P. Kelly. 2,417,503; Mar. 18.
- Apparatus for oiling sheet metal. R. A. Woofter and R. H. Smith. 2,429,862; Oct. 28.
- Apparatus for operating machine tools. K. H. Pond. 2,413,781; Jan. 7.
- Apparatus for orienting drill stems. G. A. Smith. 2,419,468; Apr. 22.
- Apparatus for painting surfaces. W. P. Frisco and V. A. Rayburn. 2,428,965; Oct. 14.
- Apparatus for parallax correction. R. C. Knowles and H. Harris, Jr. 2,428,372; Oct. 7.
- Apparatus for passing air admixed with rich fuel gas into heating flues of underfired regenerative coke ovens. C. Otto. 2,426,520; Aug. 26.
- Apparatus for peeling root vegetables and fruit. R. H. Winters. 2,429,785; Oct. 28.
- Apparatus for performing machine operations. R. A. Noble. 2,413,992; Jan. 7.
- Apparatus for phase and synchronism control. G. Deakin and H. F. Herbig. 2,426,181; Aug. 26.
- Apparatus for photoelectric camming. S. C. Hurley, Jr. 2,415,177; Feb. 4.
- Apparatus for playing card games, game. S. Milone. 2,432,248; Dec. 9.
- Apparatus for plucking feathers. E. J. Albright. 2,422,608; June 17.
- Apparatus for polyphase alternating units, Protective. J. Daniel, M. Troster, Jr., and N. W. Sederberg. 2,419,269; Apr. 22.
- Apparatus for positioning fish, Conveyor. C. M. Savrda and W. H. Hunt. 2,419,289; Apr. 22.
- Apparatus for preparation of contact masses. H. A. Shabaker. 2,413,735; Jan. 7.
- Apparatus for preparing compresses. J. H. Emerson. 2,415,238; Feb. 4.
- Apparatus for pressing fruit. P. C. N. Laforge. 2,433,815; Dec. 30.
- Apparatus for preventing contamination of well liners. E. E. Byrd. 2,419,313; Apr. 22.
- Apparatus for preventing the accumulation of ice. M. L. Taylor. 2,418,205; Apr. 1.
- Apparatus for printing on light-sensitive material. A. P. Reynolds. 2,427,923; Sept. 23.
- Apparatus for processing rope. J. A. Eriksson and F. V. Jensen. 2,426,493; Aug. 26.
- Apparatus for producing automatic scatter fire of a machine gun and for similar purposes. H. F. Frease. 2,429,713; Oct. 28.
- Apparatus for producing cold cathode fluorescent lamps or the like. C. Herzog. 2,417,361; Mar. 11.
- Apparatus for producing electroplated sheets. M. M. Sternfels. 2,429,902; Oct. 28.
- Apparatus for producing fiber from vegetable growth materials. P. G. Deuchler. 2,427,495; Sept. 16.
- Apparatus for producing hardened optical coatings for electron bombardment. G. L. Dimmick. 2,428,868; Oct. 14.
- Apparatus for producing heat insulating handles. J. F. Eckstein. 2,421,058; May 27.
- Apparatus for producing justified type matter. H. R. Freund. 2,426,146; Aug. 19.
- Apparatus for producing molding dies and the like. C. and H. H. Doering, E. W. Anderson, and B. J. Skoglund. 2,421,454; June 3.
- Apparatus for producing pulp from cellulosic material. J. B. Beveridge, R. D. Kehoe, and A. Surino. 2,425,024; Aug. 5.
- Apparatus for producing saturated fibrous bodies. J. H. Goldman. 2,429,314; Oct. 21.
- Apparatus for producing seamless hollow bodies of felted fibrous material. M. G. R. Newbould. 2,417,375; Mar. 11.
- Apparatus for producing sharply defined signaling impulses. C. J. Fitch. 2,421,606; June 3.
- Apparatus for producing smoke screens. H. A. Levey and A. C. Patterson. 2,422,024; June 10.
- Apparatus for producing tapered electro-deposits. A. Zavarella. 2,425,359; Aug. 12.
- Apparatus for producing tea, coffee, or similar bags. L. B. Eaton and R. W. Vergobbi. 2,430,280; Nov. 4.
- Apparatus for producing varied spaced castings on a mounting. L. H. Morin. 2,425,552; Aug. 12.
- Apparatus for producing vitreous or metallic surfaces. G. Duccini and P. R. Caredio. 2,427,448; Sept. 16.
- Apparatus for projection viewing and printing from transparencies. H. Warman. 2,432,704; Dec. 16.
- Apparatus for protecting power lines. G. A. Matthews. Re. 22,872; Apr. 29.
- Apparatus for puffing slag. J. C. K. Stuart and A. H. Vanderburgh. 2,428,249; Sept. 30.
- Apparatus for punching tuyères of copper converters and the like. L. Larson and B. T. Berge. 2,432,996; Dec. 23.
- Apparatus for radio alarm systems, Testing. J. D. Holland and D. D. Robinson. 2,429,624; Oct. 28.
- Apparatus for radio direction finding and indicating. P. Adorjan. 2,416,727; Mar. 4.
- Apparatus for raising the disassociation pressure of acetylene in generators. J. J. Crowe. 2,422,225; June 17.
- Apparatus for range parallax correction. D. J. Campbell, H. Harris, Jr., and A. A. Hauser, Jr. 2,429,606; Oct. 28.
- Apparatus for reactions in a contact mass. T. P. Simpson, J. W. Payne, and L. P. Evans. 2,417,399; Mar. 11.
- Apparatus for reactivating radio tubes. C. Helliar. 2,413,707; Jan. 7.
- Apparatus for reading blood-pressure and pulse. W. J. Cameron. 2,421,114; May 27.
- Apparatus for reclaiming spent foundry sand. A. C. Christensen. 2,433,738; Dec. 30.
- Apparatus for reconditioning of dry cell batteries. J. Scott. 2,424,059; July 15.
- Apparatus for recording the firing speed of rapid-fire guns. R. R. Fowler. 2,430,810; Nov. 11.
- Apparatus for recovering scrap metal. F. D. Chew. 2,426,389; Aug. 26.
- Apparatus for recovering seaplanes from the water. G. A. Ott and B. A. Van Voorhis. 2,418,478; Apr. 8.
- Apparatus for reducing the fluid content of a fluid-solid intermixture. H. A. Teale. 2,417,958; Mar. 25.
- Apparatus for refrigeration anaesthesia, Applicator. E. L. Barnes and H. A. Brenner. 2,415,455; Feb. 11.
- Apparatus for regenerating and smoothing data. H. K. Weiss. 2,433,006; Dec. 23.
- Apparatus for remotely repeating angular indications. R. Hardy. 2,419,550; Apr. 29.
- Apparatus for removing fines in bucket loaders. A. G. Granath and J. J. Gruenfeld. 2,424,272; July 22.
- Apparatus for removing fruit and the like from a tray on which the fruit is processed. D. A. Sanders and G. K. Schrader. 2,428,555; Oct. 14.
- Apparatus for removing meltable metal from articles. G. R. Park. 2,421,804; June 10.
- Apparatus for removing soluble impurities from solid substances. H. H. Chesny. 2,426,296; Aug. 26.
- Apparatus for reproducing shapes. C. N. Boyd. 2,421,827; June 10.
- Apparatus for reproduction of pictorial representations. N. R. Gunderson. 2,413,706; Jan. 7.
- Apparatus for re-refining lubricating oil. M. J. Livingston. 2,419,579; Apr. 29.
- Apparatus for respiration at high altitudes, Breathing. R. Margaria. 2,432,627; Dec. 16.
- Apparatus for resurfacing rubber tires. J. D. Langdon. 2,425,332; Aug. 12.
- Apparatus for roasting coffee. R. F. O'Toole and A. C. Parlani. 2,418,275; Apr. 1.
- Apparatus for rolling radiator core elements. J. Salzer. Re. 22,956; Dec. 30.
- Apparatus for rotatable members, Condition responsive. A. C. Ruge. 2,423,620; July 8.
- Apparatus for rustproofing or the like. R. H. Gordon. 2,421,610; June 3.
- Apparatus for salvage. H. E. Gross. 2,421,377; June 3.
- Apparatus for sampling formation fluids. L. S. Chambers. 2,418,500; Apr. 8.
- Apparatus for sawing ornamental stones. W. C. Eyles. 2,431,469; Nov. 25.
- Apparatus for sealing containers. R. E. Lowey and J. L. Ferguson. 2,425,067; Aug. 5.
- Apparatus for sensing tabulating cards and the like. J. W. Hooper. 2,416,625; Feb. 25.
- Apparatus for separating constituents of a liquid mixture which are of different specific gravities. A. Lawson and C. M. Young. 2,432,317; Dec. 9.
- Apparatus for separating defective sheets as sheared from continuous strip. R. L. Dowell. 2,433,685; Dec. 30.
- Apparatus for separating fine gold by screening and aqueous suspension. M. Constant. 2,428,146; Sept. 30.
- Apparatus for settling suspended solids from liquid mediums. W. D. Swallow. 2,424,259; July 22.
- Apparatus for severing knitted structures. C. Weller. 2,422,154; June 10.
- Apparatus for shaping work pieces by grinding. J. C. Wilson. 2,426,807; Sept. 2.
- Apparatus for simultaneously polishing both faces of a travelling strip of glass. G. H. Baillie. 2,419,927; Apr. 29.
- Apparatus for simultaneously polishing both faces of a travelling strip of glass. F. B. Waldron and J. H. Griffin. 2,419,925; Apr. 29.
- Apparatus for simultaneously polishing both faces of a travelling strip of glass. F. B. Waldron. 2,419,926; Apr. 29.
- Apparatus for smelting sulphur. E. C. Bierce. 2,433,591; Dec. 30.
- Apparatus for spray coating articles. H. P. Ransburg. 2,428,991; Oct. 14.
- Apparatus for spraying beamed yarns. H. Voelker and W. H. Wolfe. 2,425,214; Aug. 5.
- Apparatus for spraying powders, atomized liquids, and the like. C. Cakebread. 2,421,183; May 27.
- Apparatus for spreading viscous or plastic materials. S. W. Alderfer. 2,426,572; Aug. 26.
- Apparatus for stacking and transporting objects. G. H. Harred. 2,424,093; July 15.
- Apparatus for starting discharge lamps. W. R. Young and P. K. Turner. 2,417,724; Mar. 18.
- Apparatus for straightening frames and the like. M. S. Merrill. 2,422,030; June 10.



- Apparatus for stretch-shaping metal blanks to conform to convex curve dies. T. B. Hawkes. 2,431,173; Nov. 18.
- Apparatus for stretcher leveling strips. M. D. Stone. 2,432,828; Dec. 16.
- Apparatus for stretching continuous filament textile material. T. Jackson and F. B. Hill. 2,427,054; Sept. 9.
- Apparatus for stripping film from a drying cylinder. J. I. Ormond. 2,413,779; Jan. 7.
- Apparatus for stripping sulfur trioxide from oleum. J. J. Bradley and A. Regenbrecht. 2,415,159; Feb. 4.
- Apparatus for stuffing casings. J. E. Dyrek and W. L. McCaslin. 2,427,202; Sept. 9.
- Apparatus for submarine signalling. E. W. Smith. 2,419,603; Apr. 29.
- Apparatus for successively displaying the individual cards of a plurality. J. O. Huffman. 2,416,313; Feb. 25.
- Apparatus for supporting portable radio sets. D. H. Mitchell. 2,421,516; June 3.
- Apparatus for suppressing reverberation. L. G. S. Wood. 2,431,854; Dec. 2.
- Apparatus for surfacing and polishing hard materials. L. Mayer. 2,429,418; Oct. 21.
- Apparatus for swedging screws on ophthalmic mountings. D. D. Krebs. 2,426,275; Aug. 26.
- Apparatus for taking folded or unfolded sheets of paper from a pile thereof and conveying the same to a device for further treatment. R. Hepp. 2,425,936; Aug. 19.
- Apparatus for taking photographs. F. B. Wilcox. 2,419,474; Apr. 22.
- Apparatus for testing aircraft. M. Watter. 2,425,273; Aug. 5.
- Apparatus for testing altimetric devices. C. H. H. Rodanet. 2,422,702; June 24.
- Apparatus for testing and classifying insulating sheets according to dielectric strength. F. R. Schmitt. 2,425,347; Aug. 12.
- Apparatus for testing and selecting hollow ware. W. J. Fedorchak and A. S. Jackson. 2,432,871; Dec. 16.
- Apparatus for testing cans for leakage. H. C. Gray. 2,433,043; Dec. 23.
- Apparatus for testing electric coils. F. J. Watson and F. Moutran. 2,421,227; May 27.
- Apparatus for testing electrical insulation. W. D. Boynton. 2,422,288; June 17.
- Apparatus for testing prime movers. J. S. Bogen and H. A. Hulsberg. 2,414,356; Jan. 14.
- Apparatus for testing spark plugs. T. J. Mesh. 2,430,069; Nov. 4.
- Apparatus for testing transmission lines. A. F. Wilson. 2,414,624; Jan. 21.
- Apparatus for the condensation of metallic vapors. W. F. Chubb. 2,430,389; Nov. 4.
- Apparatus for the extraction of a kernel or kernels from nuts. F. A. Deutsch. 2,424,022; July 15.
- Apparatus for the fluid treatment of yarns and the like. A. Lodge. 2,424,403; July 22.
- Apparatus for the gravitational control of photo and electric cells. J. C. Clifton and F. W. Rabarts. 2,427,902; Sept. 23.
- Apparatus for the hydraulic transmission of power. C. P. R. De Villiers. 2,419,059; Apr. 15.
- Apparatus for the instantaneous preparation of iced food-stuffs such as cream or the like. A. F. Genova. 2,415,585; Feb. 11.
- Apparatus for the manufacture of amorphous carbon. J. W. Ayers. 2,420,999; May 27.
- Apparatus for the manufacture of carbon black. W. Loving. 2,418,475; Apr. 8.
- Apparatus for the manufacture of footwear. E. Rollman. 2,432,174; Dec. 9.
- Apparatus for the manufacture of glassware. E. Danner. 2,429,220; Oct. 21.
- Apparatus for the prevention of leakage in gas generators. J. H. Smith. 2,430,652; Nov. 11.
- Apparatus for the production of comminuted particles. S. Hiller. 2,422,099; June 10.
- Apparatus for the production of music. B. F. Miessner. 2,414,886; Jan. 28.
- Apparatus for the repair of tires. E. E. Lakso. 2,421,100; May 27.
- Apparatus for the sharpening of cutters. E. Malaguti. 2,426,363; Aug. 26.
- Apparatus for the solution of triangles. P. F. Everitt. 2,428,416; Oct. 7.
- Apparatus for the storage of fluorine. H. F. Priest and A. V. Grosse. 2,419,915; Apr. 29.
- Apparatus for the treatment of solid materials with liquids. C. I. Haney and J. G. Mitchell. 2,433,552; Dec. 30.
- Apparatus for the use of medicinal aerosols. F. J. M. Theunissen. 2,432,946; Dec. 16.
- Apparatus for transferring material in mines. C. F. Osgood. 2,420,009; May 6.
- Apparatus for transmitting and receiving radio signals. D. C. Espley. 2,424,156; July 15.
- Apparatus for transmitting power. R. Gouirand. 2,427,598; Sept. 16.
- Apparatus for treating and storing meat. P. B. Christensen. 2,419,119; Apr. 15.
- Apparatus for treating contents of sealed containers. E. R. Zademach, W. W. Clarke, and K. L. Ford. 2,415,782; Feb. 11.
- Apparatus for treating fibrous material. E. L. Lundgren. 2,423,425; July 1.
- Apparatus for treating garbage and the like waste materials. K. Petersen. 2,423,994; July 15.
- Apparatus for treating selenium rectifiers. C. S. Smith, Jr., and L. A. Seder. 2,418,055; Mar. 25.
- Apparatus for treating sheet material. M. J. Friedman. 2,419,132; Apr. 15.
- Apparatus for treating shoe soles. W. C. Card, Jr. 2,432,282; Dec. 9.
- Apparatus for treating starch-containing material. E. D. Andrews. 2,414,185; Jan. 14.
- Apparatus for treating yarn. H. O. Naumann. 2,416,534; Feb. 25.
- Apparatus for treatment of foods by dehydration or refrigeration comprising trucks and a treating enclosure. W. J. Finnegan. 2,422,536; June 17.
- Apparatus for treatment of rectal disorders and the like. A. Fishko. 2,427,953; Sept. 23.
- Apparatus for twisting and winding yarn. P. F. Martinez. 2,431,617; Nov. 25.
- Apparatus for uniting leads to lamp contacts. M. E. McGowan and W. R. Umbach. 2,429,287; Oct. 21.
- Apparatus for use in learning reading and arithmetic. L. F. Donner. 2,415,342; Feb. 4.
- Apparatus for use in the centrifugal separation of serum from cheese constituents. G. J. Strezynski. 2,432,829; Dec. 16.
- Apparatus for utilizing the energy of sea waves. P. F. Danel. 2,432,510; Dec. 16.
- Apparatus for vacuum drying packages of yarn having means for rotating the packages. P. H. van Scherpenzeel. 2,432,952; Dec. 16.
- Apparatus for vaporizing liquids. J. J. Richards. 2,417,126; Mar. 11.
- Apparatus for vaporizing sulfur. A. T. Sieron. 2,424,336; July 22.
- Apparatus for vibrating metals during casting. J. F. Schrumm. 2,419,373; Apr. 22.
- Apparatus for washing cylinders. A. F. Cassin. 2,420,463; May 13.
- Apparatus for washing clothes. J. B. Kirby. 2,432,766; Dec. 16.
- Apparatus for weaving fabrics of plastic materials. E. Welti. 2,421,532; June 3.
- Apparatus for welding. F. H. Johnson and C. F. Leathers. 2,429,186; Oct. 14.
- Apparatus for welding vanes to turbine rotors. N. C. Price and H. A. Greenwald. 2,426,746; Sept. 2.
- Apparatus for wet treatment and drying of a moving wet spun synthetic tread strand. H. O. Naumann. 2,416,535; Feb. 25.
- Apparatus for winding helixes. C. B. A. Porter. 2,426,522; Aug. 26.
- Apparatus for yarns, fluid treating. T. Jackson and F. B. Hill. 2,425,037; Aug. 5.
- Apparatus having superposed aerating and clarifying chambers, waste purification. E. B. Mallory. 2,413,838; Jan. 7.
- Apparatus including power unit for setting brakes. E. A. Rockwell. 2,423,204; July 1.
- Apparatus to detect changes of voltages. W. P. Place. 2,429,072; Oct. 14.
- Apparel, Article of. K. Oppenheimer. 2,416,343; Feb. 25.
- Apparel bagging device. A. D. Capehart. 2,429,744; Oct. 28.
- Appliance, Domestic. R. R. Candor. 2,416,084; Feb. 18.
- Appliance, Educational. C. J. Maginley. 2,418,718; Apr. 8.
- Appliance for chairs and the like. M. W. Wells. 2,429,498; Oct. 21.
- Appliance for closing a switch for parallel connection of two networks or a network with incoming generator. A. Gantenbein and J. Jackle. 2,424,447; July 22.
- Appliance for making coffee, Electrical. J. C. Meier. 2,422,580; June 17.
- Appliance switch at attachment cord anchorage. S. P. Morse. 2,432,067; Dec. 2.
- Applicator. S. Malko. 2,425,384; Aug. 12.
- Applicator. A. M. Mazzarelli. 2,416,705; Mar. 4.
- Applicator, Cosmetic. A. N. Turnes. 2,416,029; Feb. 18.
- Applicator, Cosmetic. B. A. Wagner. 2,426,288; Aug. 26.
- Applicator, Dentifrice. R. G. Hobelmann. 2,419,896; Apr. 29.
- Applicator for calking compound cartridges, Extruding. C. Moots and R. C. Hooker. 2,421,711; June 3.
- Applicator for shoe polish. G. M. Kendall. 2,426,738; Sept. 2.
- Applicator, Fluid. T. G. Etem. 2,432,401; Dec. 9.
- Applicator, Liquid. M. E. Landau. 2,419,959; May 6.
- Applicator, Liquid. M. E. Landau. 2,425,251; Aug. 5.
- Applicator, Medicament. C. C. and H. F. Bowman. 2,431,985; Dec. 2.
- Applicator, Nut. J. McCaughey. 2,433,140; Dec. 23.
- Applicator, Paint. L. P. A. Touchett. 2,427,581; Sept. 16.
- Applicator, Pressure plastic. R. G. Ames. 2,413,684; Jan. 7.
- Applicator, Scouring. G. D. Meyer. 2,416,635; Feb. 25.
- Applying metal coatings, Method and apparatus for. R. L. Wagner. 2,431,781; Dec. 2.
- Apron. L. Brehm. 2,416,609; Feb. 25.
- Apron. P. Goldsmith. 2,421,195; May 27.



- Apron, Link feed. R. L. Sjöstrom. 2,426,794; Sept. 2.  
 Apron type feeder. A. L. Munro. 2,428,887; Oct. 14.  
 Aqueous dispersion of a butadiene-styrene copolymer, Producing a free-flowing high solids. J. G. Mark and D. Rubinstein. 2,418,782; Apr. 8.  
 Aqueous dispersions of synthetic resins, Preparing. C. F. Brown. 2,419,816; Apr. 29.  
 Aqueous emulsions and preparing them. W. Starck and H. Freudenberger. 2,422,646; June 17.  
 Aqueous solution of electrolytes, Method of and apparatus for treating. H. L. Tiger. 2,422,054; June 10.  
 Aqueous solutions of hygroscopic liquids, Concentrating. J. W. Bertetti. 2,432,136; Dec. 9.  
 Arbor, Grinding wheel. R. F. Akers. 2,426,170; Aug. 26.  
 Arc brazing, Electric. S. J. Cherry and L. C. Werner. 2,431,368; Nov. 25.  
 Arc discharge device with entire casing shielded from the arc. H. Winograd. 2,427,999; Sept. 23.  
 Arc extinguishing structure. D. Ellis and O. L. Taylor. 2,416,164; Feb. 18.  
 Arc lamp regulating circuit. M. A. Hankins. 2,430,929; Nov. 18.  
 Arc making intermittent welds, Blanketed electric. H. E. Kennedy. 2,430,055; Nov. 4.  
 Arc prevention for control systems. G. W. Penney. 2,424,329; July 22.  
 Arc welder control circuit. A. R. Locke. 2,432,529; Dec. 16.  
 Arc welder, Electronic. E. M. Callender. 2,426,964; Sept. 2.  
 Arc-welding converter. M. Morrison. 2,429,289; Oct. 21.  
 Arc welding, Electric. J. M. Tyrner. 2,433,678; Dec. 30.  
 Arc welding electrode. P. Y. Sjöman. 2,415,149; Feb. 4.  
 Arc welding electrodes. R. H. F. Boot. 2,421,594; June 3.  
 Arch support. C. C. Edinger. 2,433,034; Dec. 23.  
 Arch support. J. Peil. 2,422,923; June 24.  
 Archery bow. W. M. Folberth and P. Parmelee. 2,423,765; July 8.  
 Archery bow. B. Pearson. 2,426,283; Aug. 26.  
 Archery device. C. Tyszkiewicz. 2,417,791; Mar. 18.  
 Area wing, Variable. T. F. Gibson. 2,423,095; July 1.  
 Argillaceous material, Treating. J. B. Cleary. 2,430,601; Nov. 11.  
 Arm, Artificial. D. C. Mollenhour. 2,428,632; Oct. 7.  
 Arm, Counterweighted parallel motion. C. H. and C. H. Little. 2,429,132; Oct. 14.  
 Arm for aerial pickup systems. M. W. Mancini. 2,433,136; Dec. 23.  
 Arm for air pickup systems. W. J. Mitchell. 2,433,473; Dec. 30.  
 Arm for precision tools, Indicator supporting. A. Beaupre. 2,423,434; July 8.  
 Arm for spinning mules, Faller. J. C. Johnson. 2,416,627; Feb. 25.  
 Arm for woodworking machines. A. E. Horman. 2,418,639; Apr. 8.  
 Arm rest. W. McArthur. 2,419,412; Apr. 22.  
 Arm rest. L. B. Stallcup. 2,418,561; Apr. 8.  
 Arm, Windshield wiper. I. Nesson. 2,417,991; Mar. 25.  
 Armature analyzer utilizing a cathode-ray oscilloscope. G. Haydock. 2,427,672; Sept. 23.  
 Armature and coil winding machine. H. B. Boyer. 2,424,301; July 22.  
 Armature, Circuit breaker-balanced. H. C. Graves, Jr. 2,419,892; Apr. 29.  
 Armature fan puller. S. O'Riley. 2,431,960; Dec. 2.  
 Armature massager, Vibrating. B. A. Stern. 2,430,414; Nov. 4.  
 Armature winding head assembly. R. Abrams. 2,414,218; Jan. 14.  
 Armature winding, Polyphase. C. G. Veinott. 2,414,571; Jan. 21.  
 Armatures and the like, Varnishing. D. F. Alexander. 2,417,538; Mar. 18.  
 Armchair. H. Akse. 2,428,190; Sept. 30.  
 Armor, Body. D. C. Howard. 2,424,985; Aug. 5.  
 Armrest, Crutch. H. C. McGowan. 2,417,171; Mar. 11.  
 Aromatic amine polymer, Halogenated cross-linked. S. S. Kistler. 2,414,748; Jan. 21.  
 Aromatic amines, Preparing. C. N. Kimberlin, Jr. 2,432,099; Dec. 9.  
 Aromatic compounds, Producing. J. K. Dixon and D. R. May. 2,422,166; June 10.  
 Aromatic compounds, Production of. J. K. Dixon. 2,422,165; June 10.  
 Aromatic compounds, Production of. D. R. May and J. K. Dixon. 2,422,169; June 10.  
 Aromatic compounds, Production of. M. G. Sturrock and T. Lawe. 2,422,318; June 17.  
 Aromatic hydrocarbons, Alkylation of. H. S. Bloch. 2,426,665; Sept. 2.  
 Aromatic hydrocarbons by azeotropic distillation, Purification of. W. J. Chadder. 2,416,377; Feb. 25.  
 Aromatic hydrocarbons, Controlled oxidation of alkylated. F. F. Rust and W. E. Vaughan. 2,415,800; Feb. 11.  
 Aromatic mercury phenolates of halogenated aromatics. C. N. Andersen. 2,429,086; Oct. 14.  
 Aromatics, Alkylation of. V. N. Ipatieff and C. B. Linn. 2,428,279; Sept. 30.  
 Aromatics and diolefins from petroleum, Producing. N. K. Chaney. 2,423,374; July 1.  
 Arrangement adapted to suppress radio frequency currents on conductors. H. O. Roosenstein. 2,419,855; Apr. 29.  
 Arrangement for extracting metal bodies from webs of textile materials. H. Duesberg. 2,416,293; Feb. 25.  
 Arrangement for passenger vehicles, Seating. H. A. Flogaus. 2,414,730; Jan. 21.  
 Arrangement for protecting the electrodes in demountable high vacuum tubes. M. Graf. 2,413,760; Jan. 7.  
 Arrangement for releasing and storing ice cubes. H. Y. Jennings, W. F. Swezey, and F. W. Schouman. 2,429,882; Oct. 28.  
 Arrangements for insulatingly leading electric conductors through metal casings. R. A. L. Cole. 2,431,308; Nov. 25.  
 Arrestor, Expulsion type. H. O. Stoelting. 2,429,533; Oct. 21.  
 Arsenic compounds of phenyl-hydrazo-naphthol sulfonic acids. E. A. H. Friedheim. 2,419,348; Apr. 22.  
 Article carrier. H. G. Suiter. 2,425,135; Aug. 5.  
 Article clamping clip. C. C. Harris and L. T. Bassett. 2,414,810; Jan. 28.  
 Article-controlled gripping, printing, and severing machine. F. Q. Rast. 2,427,418; Sept. 16.  
 Article-controlled marking means. D. Lacy-Hulbert. 2,425,249; Aug. 5.  
 Article display device. G. C. Hilton. 2,426,689; Sept. 2.  
 Article ejecting device. A. De Mott. 2,432,561; Dec. 16.  
 Article-feeding mechanism. L. L. Salfsberg. 2,420,982; May 20.  
 Article for simulating animation. A. T. Smith. 2,420,986; May 20.  
 Article forming apparatus. R. T. Adams. 2,422,282; June 17.  
 Article forming apparatus. J. S. Stull. 2,429,002; Oct. 14.  
 Article handling apparatus. E. E. Barkstrom and E. J. Shaw. 2,421,920; June 10.  
 Article handling apparatus. J. W. Eldred. 2,415,997; Feb. 18.  
 Article-inverting apparatus. H. D. Smith. 2,424,258; July 22.  
 Article of manufacture for reinforcing an article of apparel. M. Katzenstein. 2,414,262; Jan. 14.  
 Article turner. D. Summers. 2,427,933; Sept. 23.  
 Article washing machine. E. R. Zadernach and W. W. Clarke. 2,413,853; Jan. 7.  
 Articles from coal, Manufacture of molded. D. H. Bangham, J. G. Bennett, R. L. Brown, W. Hirst, M. Pirani, and R. F. Jennings. 2,424,012; July 15.  
 Articles from plastic treated materials, Making. Le G. Daly. 2,420,522; May 13.  
 Articles from polyisobutylene, styrene and divinyl benzene, Producing hard electrically insulating. W. Mertens. 2,426,111; Aug. 19.  
 Articles in tandem through a drying chamber, Reciprocal means for automatically moving a series of. V. C. Ensor and F. D. Johnston. 2,421,690; June 3.  
 Articles of compressed and impregnated wood, Making. J. E. Gurvitch. 2,423,647; July 8.  
 Articulator. A. Shmukler and H. Bronstein. 2,423,522; July 8.  
 Articulator with an operating handle for grinding and an adjustable incisive guide with arcuate movement. J. S. Miller. 2,428,808; Oct. 14.  
 Artificial arm. J. Otterman. 2,427,974; Sept. 23.  
 Artificial bristles, Production of. H. A. Neville and T. G. Harris. 2,426,896; Sept. 2.  
 Artificial eyes and product thereof, Making all plastic. A. J. Brent. 2,433,261; Dec. 23.  
 Artificial hand and control mechanism. F. K. Hibbard. 2,425,154; Aug. 5.  
 Artificial hand-hook type. D. C. Mollenhour. 2,415,145; Feb. 4.  
 Artificial knee joint. R. F. Markkula. 2,433,571; Dec. 30.  
 Artificial leg. G. A. Hinkle. Re. 22,903; Aug. 5.  
 Artificial leg. A. R. Roche. 2,430,584; Nov. 11.  
 Artificial limb. E. C. Carter. 2,416,817; Mar. 4.  
 Artificial limb. A. W. Rogers. 2,422,748; June 24.  
 Artificial limb. K. C. Vesper. 2,416,030; Feb. 18.  
 Artificial piezoelectric elements, Method and apparatus for making. C. Chilowsky. 2,420,652; May 20.  
 Artificial proteinaceous fiber utilizing finely divided material in the coagulating bath, Producing. L. Lis and R. Horton. 2,432,776; Dec. 16.  
 Artificial staple fibers, Fluffing up. N. B. Geer and L. W. Schatz. 2,420,367; May 13.  
 Artificial tooth. M. Beresin. 2,417,965; Mar. 25.  
 Artificial tooth. J. A. Saffir. 2,431,086; Nov. 18.  
 Artificial waxes comprising reaction products of maleic anhydride and partial esters of stearic acid and polyhydric alcohols of the pentaerythritol series, preparing and compositions containing the same. H. Burrell, P. I. Bowman, and R. H. Barth. 2,427,255; Sept. 9.  
 Aryl carboxyguanamines. J. T. Thurston and D. E. Nagy. 2,425,287; Aug. 5.  
 Aryl compounds, Producing. K. W. Saunders. 2,422,171; June 10.  
 Aryldialkylolamines, Preparation of. H. Z. Lecher and M. L. Kesler. 2,432,023; Dec. 2.  
 Aryl diazo-N-sulfonate light-sensitive material, Stabilized. W. H. Von Glaan and M. K. Reichel. 2,429,249; Oct. 21.  
 Aryl guanamines. J. T. Thurston. 2,427,314; Sept. 9.



- Aryl polymercury naphthenates and their production. M. Nowak. 2,423,044; June 24.
- Arylides of aromatic orthohydroxy carboxylic acids, Preparation of. R. H. Weiss and A. C. Winttingham. 2,418,326; Apr. 1.
- Arylides of ortho-hydroxy carboxylic acid. H. W. Grimmell and A. Guenther. 2,419,932; Apr. 29.
- Asbestos dusting process and apparatus. L. C. Pharo. 2,420,495; May 13.
- Asbestos fiberizing apparatus. W. J. Joyce, Jr. 2,417,599; Mar. 18.
- Ash and dust separator. J. K. Weniger. 2,432,757; Dec. 16.
- Ash collector. E. W. Bullock. 2,415,935; Feb. 18.
- Ash receiver, Cigarette. F. A. Roberts. 2,424,710; July 29.
- Ash receiver for desks. B. L. Fay. 2,432,402; Dec. 9.
- Ash receiver, Paper envelope. I. L. Cook. 2,432,656; Dec. 16.
- Ash sifting device. A. S. Weinstein. 2,432,599; Dec. 16.
- Ash tray. F. Graffenberger. 2,425,428; Aug. 12.
- Ash tray. W. York. 2,424,695; July 29.
- Ash tray. J. J. Seme. 2,426,528; Aug. 26.
- Ash tray, flower and candle holder, Combination. J. Jensen. 2,428,116; Sept. 30.
- Ash tray, Mechanical. J. W. La Pointe. 2,426,511; Aug. 26.
- Ash tray. Vehicle mounted. F. R. Berry, Jr. 2,418,749; Apr. 8.
- Asphalt coating compositions, Making. E. C. Knowles and F. C. McCoy. 2,415,697; Feb. 11.
- Asphalt composition. A. J. Shmidl. 2,430,998; Nov. 18.
- Asphalt compositions having improved adhesivity to aggregate. A. P. Anderson and F. H. Stross. 2,427,488; Sept. 16.
- Asphalt emulsions for treatment of coal and preparing the same. C. R. Rosencranse. 2,431,891; Dec. 2.
- Asphaltic materials, Producing. H. E. Messmore. 2,420,185; May 6.
- Assembler for line casting machines. E. E. Alm. 2,419,700; Apr. 29.
- Assembling apparatus. H. H. Merwin. 2,423,038; June 24.
- Assembling machine. N. H. Mageoch. 2,423,036; June 24.
- Assembling machine. E. Quinn. 2,414,167; Jan. 14.
- Assembling machine, Buckle strap. F. Fertitta. 2,416,437; Feb. 25.
- Assembling machine elements, Partition. A. Shields. 2,414,335; Jan. 14.
- Assembling machine which aligns gaskets and indicates any misalignment, Crown cap. C. C. Green. 2,432,988; Dec. 23.
- Assembling tool. P. E. Hogin. 2,422,549; June 17.
- Assembly apparatus. E. J. Bohaboy and H. C. Grupp. 2,428,958; Oct. 14.
- Assembly for brakes and clutches. T. L. Fawick. 2,422,227; June 17.
- Assembly for clutches or brakes. T. L. Fawick. 2,428,933; Oct. 14.
- Assembly for containers, Combination lip and handle. M. Waddell. 2,416,600; Feb. 25.
- Assembly for drying webs, Felt and drum. L. Hornbostel. 2,433,122; Dec. 23.
- Assembly of engine-and-compressor units. A. Kalitinsky. 2,426,309; Aug. 26.
- Assembly means for radio tubes. A. Binneweg, Jr. 2,431,020; Nov. 18.
- Assembly system for stores, Article. P. M. Farmer. 2,416,870; Mar. 4.
- Athletic shoulder protector. H. Goldsmith. 2,430,502; Nov. 11.
- Atmospheric control means. J. F. Schrumm. 2,430,191; Nov. 4.
- Atomic structure of materials, Ascertaining. P. C. Smith. 2,422,807; June 24.
- Atomizer. T. S. Sutherland. 2,421,359; May 27.
- Atomizer. W. Brewer. 2,420,223; May 6.
- Atomizer. H. E. Curry. 2,432,660; Dec. 16.
- Atomizer. J. Fletcher. 2,416,685; Mar. 4.
- Atomizer. F. O. Killorin. 2,427,912; Sept. 23.
- Atomizer. S. I. Spender and R. L. E. Reuter. 2,427,932; Sept. 23.
- Atomizer for internal-combustion engines, Fuel. E. J. Sanders and L. Lefingwell. 2,421,580; June 3.
- Atomizer, Hand pump. C. W. Cherry. 2,429,708; Oct. 28.
- Atomizing and desiccating substances, and apparatus therefor. D. D. Peebles. 2,415,527; Feb. 11.
- Attaching device. W. McArthur. 2,422,693; June 24.
- Attachment device for cylinder boring machine. O. J. E. Olsson. 2,418,789; Apr. 8.
- Attachment for artificial bait, Hook. F. Arbogast. 2,429,339; Oct. 21.
- Attachment for baby carriages and the like. D. Weissman. 2,427,482; Sept. 16.
- Attachment for coffee pots. H. P. Botts. 2,416,149; Feb. 18.
- Attachment for concrete pumps, Grouting. C. I. Longenecker. 2,432,671; Dec. 16.
- Attachment for corn pickers, Loading bin. C. N. Evans, Jr. 2,430,007; Nov. 4.
- Attachment for couplers, Swivel. R. T. McElhose and R. R. Farrell. 2,423,069 June 24.
- Attachment for cultivator tractors. H. J. Schaapveld. 2,416,271; Feb. 18.
- Attachment for draftsmen's scales, Broken line making. D. G. Jackson. 2,427,143; Sept. 9.
- Attachment for drains, Obstruction removing. M. J. Dutra. 2,430,976; Nov. 18.
- Attachment for holding bags and other articles. J. Papalexis and O. W. Johnson. 2,420,263; May 6.
- Attachment for hydraulic feeding mechanism, Wedge. O. J. Bratz. 2,415,931; Feb. 18.
- Attachment for lathes. P. de V. d'Avaucourt. 2,429,710; Oct. 28.
- Attachment for lathes, Grinding. J. E. Brown. 2,413,950; Jan. 7.
- Attachment for lawn mowers, Grass tamping. C. G. Christian. 2,430,912; Nov. 18.
- Attachment for looms. J. L. Pratt. 2,431,584; Nov. 25.
- Attachment for metallic leaf applying presses. J. Kahn. 2,428,879; Oct. 14.
- Attachment for mortars and the like, Direct fire. P. S. Snyder. 2,427,027; Sept. 9.
- Attachment for photographic apparatus. J. Omel. 2,419,417; Apr. 22.
- Attachment for photographic cameras, Masking. C. H. Duffy. 2,421,746; June 10.
- Attachment for power razors to facilitate hair trimming. L. M. Coles. 2,423,874; July 15.
- Attachment for sewing machines, Hemming. G. Roosevelt. 2,432,588; Dec. 16.
- Attachment for sewing machines, Work folding. J. F. Imberman. 2,430,339; Nov. 4.
- Attachment for simulating radio static, Instrument flying trainer. L. S. Marshall. 2,415,831; Feb. 18.
- Attachment for spectacles, Hearing aid. G. P. Kimmel. 2,424,935; July 29.
- Attachment for telephones, Drawer. G. A. Higbee. 2,432,760; Dec. 16.
- Attachment for telephones, Listing. G. A. Higbee. 2,414,597; Jan. 21.
- Attachment for the covers of hollow bodies, Disconnectable means of. E. Schmidt. 2,425,128; Aug. 5.
- Attachment for tire chains. E. B. Eniti and L. A. Nichols. 2,432,232; Dec. 9.
- Attachment for tongs. L. A. Meadows. 2,415,898; Feb. 18.
- Attachment for tractors. J. W. Ing. 2,425,806; Aug. 19.
- Attachment for tractors. H. A. Josephson. 2,415,744; Feb. 11.
- Attachment for tractors, Power-lift. W. W. Simmonds. 2,417,021; Mar. 4.
- Attachment means for binocular prisms and the like. W. F. Peck and K. W. Harper. 2,430,779; Nov. 11.
- Attachment means for conveyer flights. A. C. Lind. 2,428,757; Oct. 7.
- Attachment of hair springs to arbors. R. R. Wentz. 2,425,017; Aug. 5.
- Attemperator. E. G. Bailey. 2,416,674; Mar. 4.
- Attemperator. W. H. Rowand, L. B. Schueler, and P. R. Loughin. 2,421,761; June 10.
- Attenuator for centimeter waves. V. D. Landon. 2,427,106; Sept. 9.
- Attenuator for electric waves of very short length. J. Collard. 2,427,643; Sept. 16.
- Attenuator for ultra high frequencies. H. R. Meahl. 2,423,461; July 8.
- Attenuator for wave guides. E. G. Linder. 2,430,130; Nov. 4.
- Attenuator, Wave guide. E. G. Linder. 2,423,396; July 1.
- Attenuators for centimeter waves, Variable. E. O. Keizer. 2,427,098; Sept. 9.
- Attitude indicator. C. F. Savage. 2,415,707; Feb. 11.
- Auger conveyor for combines. T. Carroll. 2,426,922; Sept. 2.
- Auger, Earth. J. C. Jaques. 2,415,572; Feb. 11.
- Auto jack. E. J. Chambers. 2,424,741; July 29.
- Auto jack. R. C. Christopher. 2,429,014; Oct. 14.
- Auto-reel light. J. F. Stoeck and A. J. Valrose. 2,424,719; July 29.
- Automatic adjustment means for regulators. J. L. Kimball. 2,415,745; Feb. 11.
- Automatic article dispenser. H. W. Purdy. 2,425,560; Aug. 12.
- Automatic auxiliary fuel pump system. H. A. Satterlee. 2,417,215; Mar. 11.
- Automatic backup light. A. E. Forssell. 2,430,118; Nov. 4.
- Automatic blade clip. T. J. Smulski. 2,432,689; Dec. 16.
- Automatic boat bailer. R. L. Engle. 2,418,252; Apr. 1.
- Automatic boom lock. F. Currier. 2,423,584; July 8.
- Automatic brake wear take-up means. G. C. Geyer. 2,414,037; Jan. 7.
- Automatic braking mechanism for vehicles. E. A. Larsson. 2,417,694; Mar. 18.
- Automatic carbonating apparatus. P. H. Phillips. 2,414,607; Jan. 21.
- Automatic choke valve. C. J. Swigert. 2,427,030; Sept. 9.
- Automatic clamping and cutting of yarn in a flat or full-fashioned knitting machine and an automatic mechanism for carrying out said method. F. Lambach. 2,432,110; Dec. 9.
- Automatic closing valve. E. E. Hedene. 2,426,212; Aug. 26.



- Automatic control. C. F. Kettering and A. W. Fischer. 2,432,667; Dec. 16.
- Automatic control. M. B. Taylor. 2,432,548; Dec. 16.
- Automatic control for aeroplanes. R. H. Miles. 2,432,783; Dec. 16.
- Automatic control for gravimetric feeders by the weight of the material in the supply container. E. E. Harper. 2,416,994; Mar. 4.
- Automatic control of the circulating pumps of condensers normally working with natural water circulation for propelling apparatus. F. Modugno. 2,415,106; Feb. 4.
- Automatic cutting apparatus. R. H. Stevens and T. Wilson. 2,416,652; Feb. 25.
- Automatic cylinder drainage system for internal-combustion engines. R. J. Furstoss, S. J. Krane, and P. V. McWherter. 2,433,447; Dec. 30.
- Automatic defrosting refrigeration system. A. S. Barfield. 2,417,582; Mar. 18.
- Automatic electric time switch. B. F. Flegel. 2,430,286; Nov. 4.
- Automatic electric toaster. B. G. Olving. 2,415,963; Feb. 18.
- Automatic firearms, Assembly for eliminating muzzle climb in. C. B. Williams. 2,414,250; Jan. 14.
- Automatic food slicer and slice counting machine. A. L. Jackson. 2,414,152; Jan. 14.
- Automatic frequency control system. W. W. Hansen and E. L. Ginzton. 2,414,100; Jan. 14.
- Automatic garage door. J. S. Stover. 2,424,721; July 29.
- Automatic hair curler. J. Greenstein. 2,415,483; Feb. 11.
- Automatic heat regulator. M. E. Chandler. 2,419,820; Apr. 29.
- Automatic hydraulic clothes washing machine. N. B. Wales. 2,417,998; Mar. 25.
- Automatic iris control. J. J. Lamb. 2,417,506; Mar. 18.
- Automatic landing system. W. G. Abraham. 2,429,595; Oct. 28.
- Automatic lifesaving device. J. Frankel. 2,432,741; Dec. 16.
- Automatic lubricated valve. A. S. Volpin. 2,433,638; Dec. 30.
- Automatic machine tool. K. R. Maltby. 2,414,826; Jan. 28.
- Automatic means for controlling the power fed to an oscillator load. H. Reifel and E. L. Crandell. 2,415,799; Feb. 11.
- Automatic modulation control circuit. K. H. Davis. 2,432,512; Dec. 16.
- Automatic oil pressure safety switch. F. E. Wood. 2,418,536; Apr. 8.
- Automatic orifice cleaning device. W. S. Landon. 2,416,267; Feb. 18.
- Automatic orthophoric split slide holder. B. W. Kelly. 2,414,649; Jan. 21.
- Automatic oxygen indicator. E. R. Lewis. 2,417,877; Mar. 25.
- Automatic phonograph. J. H. Anderson. 2,416,425; Feb. 25.
- Automatic phonograph. H. G. Jensen. 2,416,445; Feb. 25.
- Automatic pilot. A. Hansen, Jr., R. G. Jewell, F. V. P. Halpert. 2,417,821; Mar. 25.
- Automatic pilot for dirigible craft. W. M. Harcum and Johnson, and R. W. Porter. 2,416,097; Feb. 18.
- Automatic pilot with automatic banking. C. A. Frische, P. Halpert, and J. R. Wilkerson. 2,415,430; Feb. 11.
- Automatic plug valve lubricator. W. A. Pochek. 2,431,299; Nov. 18.
- Automatic pressure and temperature control. R. L. Littlejohn. 2,433,466; Dec. 30.
- Automatic pressure operated hydraulic piston type admission and exhaust valve. J. M. and F. H. Towler. 2,421,133; May 27.
- Automatic reclosing circuit breaker system. G. F. Lincks and J. M. Jensen. 2,414,786; Jan. 21.
- Automatic screw machine, automatic lathe, and allied automatic machine tool. W. E. Klema and H. Sorenson. 2,417,936; Mar. 25.
- Automatic selecting switch. D. A. Christian. 2,416,086; Feb. 18.
- Automatic selectivity control in radio receivers. H. P. J. Verbeek. 2,429,734; Oct. 28.
- Automatic shutoff fuel nozzle with float controlled valve. D. Samiran and R. Pink. 2,420,341; May 13.
- Automatic shut off valve. A. W. Massecar. 2,426,364; Aug. 26.
- Automatic splitting machine. I. C. Finkelstein. 2,429,310; Oct. 21.
- Automatic switch for ultra-high frequency. E. C. Okress. 2,415,962; Feb. 18.
- Automatic telephone system. J. H. Voss. 2,416,131; Feb. 18.
- Automatic temperature control device. R. R. Curtis. 2,415,994; Feb. 18.
- Automatic thread grinding machine. H. N. Seyferth and G. H. Cork. 2,417,707; Mar. 18.
- Automatic toaster. N. B. Wales. 2,429,736; Oct. 28.
- Automatic toaster with variable draft. H. L. Newell. 2,414,325; Jan. 14.
- Automatic tracking system. G. E. White and R. C. Knowles. 2,420,334; May 13.
- Automatic transmission. H. E. Carnagua and D. W. Kelbel. 2,414,359; Jan. 14.
- Automatic unloading device for buckrake hay stackers. E. G. Mays. 2,431,877; Dec. 2.
- Automatic volume control in voice frequency circuits. E. T. Jones. 2,416,321; Feb. 25.
- Automatic weedless fish lure. W. Hietala. 2,415,633; Feb. 11.
- Automatic welt turning apparatus. W. G. MacDonald and W. A. Cooper. 2,417,509; Mar. 18.
- Automatic wire tying machine. W. F. Vining and M. L. Rowe. 2,416,859; Mar. 4.
- Automatically adjusting brake. R. A. Goepfrich. 2,417,193; Mar. 11.
- Automatically focussed projection printer. C. H. Jacobson. 2,418,230; Apr. 1.
- Automobile hanger. R. B. Zelenko. 2,417,036; Mar. 4.
- Automobile headlight signal indicator. T. M. Johnston. 2,417,501; Mar. 18.
- Automobile lighting device. J. F. Stoeck and A. J. Valrose. 2,414,343; Jan. 14.
- Automobile transporting vehicle. S. De Lano. 2,432,228; Dec. 9.
- Automobile wheel balancer. L. Olbrys. 2,421,215; May 27.
- Automotive vehicle control. A. R. Stone. 2,430,789; Nov. 11.
- Auxiliary boiler. M. C. Crotty. 2,420,231; May 6.
- Auxiliary fuel tank. C. L. Johnson. 2,421,699; June 3.
- Auxiliary propulsion means for combines or the like. W. E. Kaiser. 2,431,758; Dec. 2.
- Awl, Self-centering. R. R. Luben and E. C. Ford. 2,423,511; July 8.
- Awning operating device, Self-locking. J. N. Josefak. 2,432,574; Dec. 16.
- Awning structure. C. C. Willis. 2,426,133; Aug. 19.
- Axially adjustable wheel. F. Ginkel. 2,432,407; Dec. 9.
- Axially engaging positive clutch. E. Wildhaber. 2,431,785; Dec. 2.
- Axle attachment for detaching hot boxes. H. W. Cranwell. 2,418,579; Apr. 8.
- Axle construction for independently sprung vehicle wheels, Driving. R. P. Lewis. 2,422,739; June 24.
- Axle construction, Tandem. R. Q. Armington. 2,422,460; June 17.
- Axle generator drive. A. O. Williams. 2,426,132; Aug. 19.
- Axle, Multispeed drive. L. R. Buckendale. 2,426,593; Sept. 2.
- Axle, Vehicle. C. S. Ash. 2,432,708; Dec. 16.
- Azeotrope former-azeotropic distillation of hydrocarbons, Recovery of. C. H. O. Berg. 2,428,611; Oct. 7.
- Azeotropic distillation of five carbon diolefins in the presence of methyl formate. T. W. Evans, R. C. Morris, and E. C. Shokal. 2,426,821; Sept. 2.
- Azeotropic distillation of toluene with methanol, Two stage. T. A. Petry, R. Lee, J. L. Biles, and W. V. Betts. 2,428,467; Oct. 7.
- Azeotropic former in distillation of hydrocarbons, Recovery of. J. D. Rittenhouse. 2,415,192; Feb. 4.
- Azeotropic separation of arylenes. C. R. Sandberg and G. B. Patterson. 2,428,815; Oct. 14.
- Azimuth indicator. A. R. Stone. 2,425,762; Aug. 19.
- Azo benzene 4,4'-disulfonamide thiazole. B. J. Ludwig and F. C. Schmelkes. 2,426,313; Aug. 26.
- Azo dyes containing 3,5 dihydroxy benzoylamino groups, Direct. S. S. Rossander, C. E. Sparks, and J. W. Libby, Jr. 2,416,547; Feb. 25.
- Azo dyes for color photography. J. J. Chechak and B. H. Carroll. 2,418,624; Apr. 8.
- Azo dyes from 2,6 dihalo 4 nitraniline. F. Felix and R. von Capeller. 2,421,553; June 3.
- Azo guanamines. J. T. Thurston and D. W. Kaiser. 2,425,286; Aug. 5.
- Azo hydroxy aza indolizines. N. Heimbach. 2,432,419; Dec. 9.
- Azo lakes, Manufacture of. R. C. Locke. 2,418,416; Apr. 1.
- Azo printing composition. F. H. Smith and C. E. Sparks. 2,416,549; Feb. 25.
- BZ1-chlorobenzanthrone, Preparation of. M. Scalera. 2,418,318; Apr. 1.
- Baby chair. A. G. McEachern. 2,428,088; Sept. 30.
- Baby tender. C. S. Krogh. 2,423,392; July 1.
- Background for interchangeable display characters. L. C. Ownbey. 2,430,646; Nov. 11.
- Backing-up element for welding. R. F. Zimmerman. 2,430,266; Nov. 4.
- Back-off machine. R. I. Kuffler. 2,426,458; Aug. 26.
- Back rest. W. E. Twamley. 2,415,714; Feb. 11.
- Back rest, Foldable. F. P. Blanchard and S. Feinman. 2,429,795; Oct. 28.
- Back rest, Knockdown. E. A. Anderson. 2,432,366; Dec. 9.
- Back rest, Reclining spring supported. J. M. Dorton. 2,430,604; Nov. 11.
- Backstays to shoe uppers, Applying. C. C. Eaton. 2,421,604; June 3.
- Backwashing means for filtering apparatus by reverse flow of filtrate. G. M. Booth. 2,423,172; July 1.
- Bacteria from fluids, Removal of. G. P. Ham and R. B. Barnes. 2,428,329; Sept. 30.
- Bacteria from fluids, Removing. G. P. Ham and R. B. Barnes. 2,428,328; Sept. 30.
- Bactericide and algacide. C. W. Harnden. 2,419,021; Apr. 15.



- Bacteriostatic substances. C. E. Coulthard, W. F. Short and R. Michaelis. 2,416,821; Mar. 4.
- Baffle. W. Schneider and C. R. Marcum. 2,424,334; July 22.
- Baffle arrangement for vapor electric devices. H. Wino-grad. 2,428,000; Sept. 23.
- Baffle attachment for heating coil surrounding a combustion tube burner. M. A. Kenrick. 2,422,488; June 17.
- Bag; *See*—
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|-------------------------------------|----------------------------|
| Accordion folded paper garment bag. | Motorcycle saddle bag.     |
| Cloth and paper bag.                | Pack bag.                  |
| Clothespin bag.                     | Shopper's bag.             |
| Golf club bag.                      | Washable fabric lunch bag. |
| Ice bag.                            | Watertight bag.            |
- Bag. L. Campagnano. 2,416,816; Mar. 4.
- Bag. W. J. Geimer. 2,416,747; Mar. 4.
- Bag. H. Volksdorf. 2,420,212; May 6.
- Bag and closing device therefor, Laundry. W. C. Howe. 2,421,067; May 27.
- Bag and closure therefor. N. Kase. 2,428,227; Sept. 30.
- Bag and manufacturing it, Valved. D. Blecher. 2,415,862; Feb. 18.
- Bag closing machine. D. Belcher and F. R. Linda. 2,423,080; July 1.
- Bag coupling. D. C. Hollister. 2,432,197; Dec. 9.
- Bag delivery mechanism. A. J. Ersted. 2,433,035; Dec. 23.
- Bag filling machine and method, Valve controlled rotary hopper. G. L. Hurst. 2,418,263; Apr. 1.
- Bag holder. S. Birch, Jr. 2,421,740; June 10.
- Bag holder. K. T. Buttery. 2,430,155; Nov. 4.
- Bag holder. L. J. Nowak, Jr. 2,430,073; Nov. 4.
- Bag making machine. G. A. Haugh. 2,423,187; July 1.
- Bag molding. R. W. Auxier, J. J. Wachter, and A. Schuman. 2,416,137; Feb. 18.
- Bag sewing machine, Automatic. F. Lombardo. 2,422,426; June 17.
- Bags, Forming rubber. T. S. Watson. 2,425,166; Aug. 5.
- Bags, Making. M. E. Pick. 2,431,888; Dec. 2.
- Bailer for wells, Hydrostatic. J. J. Santiago. 2,415,608; Feb. 11.
- Bait, Artificial. A. J. R. Helmus. 2,430,114; Nov. 4.
- Bait, Artificial. F. Janchan. 2,424,096; July 15.
- Balance, Determining. J. W. Pinder and A. Blair. 2,425,685; Aug. 12.
- Balance for aircraft controls, Articulated. W. S. Diehl. 2,421,374; June 3.
- Balance testing. P. Davey. 2,432,730; Dec. 16.
- Balanced to unbalanced circuit connector. H. A. Wheeler. 2,417,895; Mar. 25.
- Balanced ultra-high frequency generator. L. R. Malling. 2,431,762; Dec. 2.
- Balancer. B. F. Langer. 2,432,907; Dec. 16.
- Balancer, Dynamic. R. B. Annis. 2,420,765; May 20.
- Balancing arrangement for radial engines, Sleeve. A. Senkowski. 2,421,164; May 27.
- Balancing device, Brake head. N. Flesch. 2,418,022; Mar. 25.
- Balancing machine. L. F. Hope. 2,426,305; Aug. 26.
- Balancing machine. G. C. Lawrie. 2,432,022; Dec. 2.
- Balancing means for centrifugal machines. A. H. Gerhardt. 2,420,592; May 13.
- Balancing means for rotatable elements. C. Criswell. 2,432,659; Dec. 16.
- Balancing member for the moving element of an indicating instrument. R. D. Hickok. 2,429,757; Oct. 28.
- Balancing valve. R. E. Price. 2,421,219; May 27.
- Baler and drive. S. D. Russell. 2,432,212; Dec. 9.
- Baler for forming perforated bales, Hay. M. A. West. 2,420,923; May 20.
- Baler, Hay. J. T. Lisle and J. B. Klamfoth. 2,417,309; Mar. 11.
- Baler, Paper. D. H. Storey. 2,423,209; July 1.
- Baler, Tractor-mounted, pickup. R. R. Raney. 2,431,828; Dec. 2.
- Baling machine. P. H. Harrer. 2,424,821; July 29.
- Baling press. J. E. Branson. 2,420,413; May 13.
- Baling press. G. C. Schley. 2,421,465; June 3.
- Balking clutch. C. D. Peterson, A. H. Deimel, and E. W. Zingsheim. 2,415,593; Feb. 4.
- Ball bearing. C. H. Witthoff. 2,433,499; Dec. 30.
- Ball-bearing assembly. H. C. Schroeder. 2,414,335; Jan. 14.
- Ball-bearing foot for furniture and the like. R. R. Knox. 2,423,711; July 8.
- Ball-bearing roller. E. E. Sprague. 2,415,611; Feb. 11.
- Ball bearing/roller bobsled type vehicle. M. Ferrara. 2,418,703; Apr. 8.
- Ball-bearings, Making. J. E. de Graaf. 2,423,880; July 15.
- Ball, Fly. G. Walters. 2,425,406; Aug. 12.
- Ball honing device. R. G. Ellis. 2,426,925; Sept. 2.
- Ball means for advancing articles over transverse assorting rollers, Flexibly suspended. R. D. Fox. 2,417,921; Mar. 25.
- Ball retriever. P. C. Klingler. 2,432,906; Dec. 16.
- Ballast, Resistor. E. Henckler and H. Weber. 2,423,021; June 24.
- Ballast router. L. O. Stratton. 2,416,241; Feb. 18.
- Ballast structure for cargo ships. P. Thompson. 2,428,050; Sept. 30.
- Balloon, Kite. D. C. Jalbert. 2,431,938; Dec. 2.
- Balloon with parachute. L. P. Frieder and W. S. Finken. 2,415,818; Feb. 18.
- Balloons, for inflatable catheters, Method and apparatus for the manufacture of. J. M. Auzin. 2,428,407; Oct. 7.
- Balustrade, Ornamental. F. L. Hawkins and W. B. Phillips. 2,427,723; Sept. 23.
- Band, Adjustable. N. Bisso and L. J. Gifford. 2,417,289; Mar. 11.
- Band and handle assembly. L. Poglein. 2,428,942; Oct. 14.
- Band, Back. E. S. Jefferson. 2,419,897; Apr. 29.
- Band blade slicing machine. W. W. Hartman. 2,424,659; July 29.
- Band building apparatus. H. H. Clark. 2,414,021; Jan. 7.
- Band, Garment. H. Hardie. 2,433,046; Dec. 23.
- Band guide. L. Hornbostel. 2,431,557; Nov. 25.
- Band saw apparatus. J. Hajek. 2,415,877; Feb. 18.
- Band shrinker. L. B. Green. 2,430,813; Nov. 11.
- Band, Wrist watch. W. Forstner. 2,431,392; Nov. 25.
- Band, Wrist-watch. K. A. Moyer. 2,425,894; Aug. 19.
- Bandage, Adhesive. J. M. Peck. 2,432,541; Dec. 16.
- Bandage for the tip and nail area of the finger. R. H. Sebastian. 2,431,203; Nov. 18.
- Bandage making machine, Catamenial. L. Schulman. Re. 22,935; Nov. 18.
- Bandeau. H. Rasch. 2,415,371; Feb. 4.
- Banding machine. J. C. Pilson. 2,427,874; Sept. 23.
- Banding machine. E. C. Sloan and W. F. Hoag. 2,418,054; Mar. 25.
- Bank, Coin. C. M. Dale. 2,426,966; Sept. 2.
- Bank, Coin. P. B. Keller. 2,420,246; May 6.
- Bank, Coin. E. D. Pirrung. 2,421,577; June 3.
- Bank, Coin register. J. D. Stiriss. 2,431,351; Nov. 25.
- Bank, Savings. K. J. Gray. 2,425,874; Aug. 19.
- Bank, Savings. F. L. Stephens. 2,429,494; Oct. 21.
- Bar; *See*—
- |                                 |                    |
|---------------------------------|--------------------|
| Boring bar.                     | Rivet bucking bar. |
| Buglar bar.                     | Sine bar.          |
| Cutter bar.                     | Stoker pusher bar. |
| Reciprocating stoker grate bar. | Threading bar.     |
| Recorder bar.                   | Towing bar.        |
|                                 | Vehicle tow bar.   |
- Bar control, Cutter. E. W. Baldwin. 2,420,219; May 6.
- Bar for doors, Metallic safety. L. G. Lopez. 2,421,275; May 27.
- Bar for planing machines, Shearing. M. E. Dick. 2,432,190; Dec. 9.
- Bar, frame thresher screen, Adjustable. W. A. Holtzman. 2,423,026; June 24.
- Bar, Making a buffing or polishing. A. H. Weisser. 2,417,800; Mar. 18.
- Bar stock and reinforcing bar. O. Wennberg and J. D. Stites. 2,418,382-3; Apr. 1.
- Bar stock in the manufacture of piezoelectric quartz crystals, Preparing. R. H. Broseker and J. L. Hessenauer. 2,414,087; Jan. 14.
- Barbecue, Portable. E. G. Eggleston. 2,419,344; Apr. 22.
- Barbituric compounds. S. M. McElvain and H. Burkett. 2,415,897; Feb. 18.
- Barge and barge coupling. W. H. Harrison. 2,431,039; Nov. 18.
- Barge, Submersible exploration. H. A. Hansen. 2,430,014; Nov. 4.
- Barium dicyanamide, Preparation of. D. E. Nagy and B. C. Redmon. 2,427,619; Sept. 16.
- Barrel and extractor, Subcaliber auxiliary. W. Summerbell. 2,423,471; July 8.
- Barrel, Core. W. S. Crake. 2,421,997; June 10.
- Barrel lifter. C. H. McKenna. 2,416,016; Feb. 18.
- Barrel stand. D. E. Meehan. 2,419,786; Apr. 29.
- Barrell type engine. R. Y. Boves. 2,421,868; June 16.
- Barreter wire unit. H. E. Webber. 2,414,499; Jan. 21.
- Base and holder, Lamp. E. B. Noel. 2,415,902; Feb. 18.
- Base and socket, Lamp. W. D. Buckingham and E. E. Bedell. 2,416,285; Feb. 25.
- Base for electric lamps and similar devices. E. B. Isaac and F. J. Rippel. 2,418,179; Apr. 1.
- Base for tilting chairs. H. W. Bolens. 2,430,043; Nov. 4.
- Base, Lamp. P. O. Cartun. 2,415,867; Feb. 18.
- Base, Mold. I. T. Quarntstrom. 2,419,089; Apr. 15.
- Base stand. V. J. Carlberg. 2,416,435; Feb. 25.
- Base structure for miniature electron tubes. S. Posen. 2,431,198; Nov. 18.
- Basic-alkyl esters and their salts. F. F. Blicke. 2,415,079; Feb. 4.
- Basic derivatives of  $\alpha$ -substituted aryloxy acetic acids and their manufacture. H. Martin and F. Hädiger. 2,428,978; Oct. 14.
- Basin, Catch. M. G. Miller. 2,432,203; Dec. 9.
- Basket. H. S. Johns. 2,420,882; May 20.
- Basketball game apparatus, Simulated. J. C. Koci and A. J. Schlapa. 2,433,224; Dec. 23.
- Basketball goals, Electric recording of. G. R. Chervenka. 2,413,952; Jan. 7.
- Basket, Heat-treating. C. H. Hill and H. I. Schneider. 2,420,428; May 13.
- Basket, Heat treating. C. Sardo. 2,417,089; Mar. 11.
- Basket, Malleable annealing. G. C. McCormick. 2,430,521; Nov. 11.
- Basket, Market. P. Brown. 2,415,334; Feb. 4.
- Basket, Sanitary sink. B. Justin. 2,426,025; Aug. 19.
- Bassinet, Folding. E. M. Farrand. 2,429,350; Oct. 21.



- Batch retification. S. C. Carney. 2,415,337; Feb. 4.  
 Bath for aluminum. Heat-treating. J. F. Simpson. 2,413,929; Jan. 7.  
 Bath for and electrolytic treatment of magnesium and magnesium alloys. R. W. Buzzard. 2,414,090; Jan. 14.  
 Bathroom accessory. A. Marchand. 2,414,755; Jan. 21.  
 Bathtub. F. Tamborello. 2,432,832; Dec. 16.  
 Bathtub. H. Gruen. 2,431,475; Nov. 25.  
 Bathtub cleaning means. L. Lombardi. 2,430,297; Nov. 4.  
 Bathtub construction. F. P. Uphues. 2,419,801; Apr. 29.  
 Bathtub construction. C. G. Walker and H. S. Gustafson. 2,427,375; Sept. 16.  
 Bathtub headrest. S. C. Reagan, Sr. 2,424,786; July 29.  
 Bathtub, Telescopic. J. A. H. Siers. 2,420,448; May 13.  
 Battery. G. W. James. 2,415,593; Feb. 11.  
 Battery. G. W. James. 2,416,755; Mar. 4.  
 Battery. W. J. Quirk. 2,414,210; Jan. 14.  
 Battery charger. M. L. Pugh. 2,432,069; Dec. 2.  
 Battery charger with reversible feature. L. R. Flippen and F. L. Hennefer. 2,423,646; July 8.  
 Battery charging apparatus. M. L. Pugh. 2,431,707; Dec. 2.  
 Battery charging control system. L. P. Cronvall. 2,431,312; Nov. 25.  
 Battery charging system. L. P. Cronvall. 2,431,311; Nov. 25.  
 Battery charging system. C. F. Jenkins. 2,427,729; Sept. 23.  
 Battery charging system. W. J. Rady. 2,421,523; June 3.  
 Battery connector. J. P. Whitaker. 2,422,380; June 17.  
 Battery, Flat type dry. A. O. Franz, J. M. Martinez, and M. D. Koppelman. 2,416,576; Feb. 25.  
 Battery hold-down device. W. and G. Holman. 2,415,284; Feb. 4.  
 Battery holder. A. M. Salazar. 2,418,141; Apr. 1.  
 Battery, Multicell flat type dry. H. W. Wiencke. 2,418,442; Apr. 1.  
 Battery separators, Making. W. W. Smith. 2,414,177; Jan. 14.  
 Battery terminal connector. A. Tisman. 2,431,092; Nov. 18.  
 Battery testing and charging system. M. L. Pugh. 2,432,068; Dec. 2.  
 Battery voltage changes in radio receivers, Compensation for. M. G. Nicholson, Jr. 2,432,033; Dec. 2.  
 Battery with electrolyte absorbent, Bipolar secondary. D. L. Hings. 2,429,515; Oct. 21.  
 Battery with plastic casing, Flashlight. F. A. Keller. 2,427,561; Sept. 16.  
 Battery with plastic casing, Flashlight. I. Koretzky and F. A. Keller. 2,427,914; Sept. 23.  
 Battery wrapper, Dry. H. R. C. Anthony. 2,416,079; Feb. 18.  
 Bayonet connector. J. C. Armor. 2,432,187; Dec. 9.  
 Beacon, Four course. F. J. Lundberg. 2,429,634; Oct. 28.  
 Beacon, Localizer. A. G. Kandorian. 2,429,630; Oct. 28.  
 Beading. W. C. Ferguson. 2,416,798; Mar. 4.  
 Beachcombing apparatus. T. L. O'Brien. 2,419,154; Apr. 15.  
 Beam and bottom rod support, Brake. J. Macey and L. S. McKee. 2,433,773; Dec. 30.  
 Beam deflection system, Electron. C. C. Larson. 2,431,488; Nov. 25.  
 Beam, Hollow centrifugally molded. P. Abeles and E. Braunbock. 2,428,304; Sept. 30.  
 Beam, Metal nailing. W. J. Hall. 2,425,798; Aug. 19.  
 Beam structure, Brake. E. E. Busse. 2,419,115; Apr. 15.  
 Beam structure, Divided tube metal. R. R. Glassbrook. 2,418,929; Apr. 15.  
 Beam warper. T. E. Watson. 2,415,857; Feb. 18.  
 Bean sprouting method and kit. D. C. McGahey. 2,431,063; Nov. 18.  
 Bearing: See—  
   Adjustably mounted bearing.  
   Antifriction thrust bearing.  
   Ball bearing.  
   Circulating ball race propeller blade bearing.  
   Crank pin bearing.  
   Journal bearing.  
   Lawn mower wheel bearing.  
 Bearing. M. Haeberlein. 2,424,028; July 15.  
 Bearing. A. Latham, Jr. 2,427,730; Sept. 23.  
 Bearing adjusting device. A. Bechler. 2,424,013; July 15.  
 Bearing and bearing surface. H. Shaw. 2,431,430; Nov. 25.  
 Bearing and brake actuating means for railway cars, Auxiliary. A. Nicholas. 2,428,720; Oct. 7.  
 Bearing and insert therefor, Rubber. L. F. Thiry. 2,416,243; Feb. 18.  
 Bearing and seal therefor. I. S. Primus. 2,419,034; Apr. 15.  
 Bearing and shaft assembly. S. M. Mercier. 2,430,236; Nov. 4.  
 Bearing assembly. J. E. Shafer. 2,419,691; Apr. 29.  
 Bearing bushing on molded blades, Making. E. Martin. 2,423,246; July 1.  
 Bearing construction. M. Anderson. 2,427,541; Sept. 16.  
 Bearing construction. D. H. Ware. 2,421,668; June 3.  
 Bearing device, Spherical. S. Collito, Jr. 2,423,684; July 8.  
 Bearing for railway journal boxes, Antifriction. W. F. Triplett. 2,433,492; Dec. 30.  
 Bearing for vacuum tube work. S. F. Essig. 2,427,203; Sept. 9.  
 Bearing for vertical shafts. R. W. Schuck. 2,427,748; Sept. 23.  
 Bearing indicating device. D. G. C. Luck. 2,432,778; Dec. 16.  
 Bearing liners, Forming. C. J. Bishop. 2,423,868; July 15.  
 Bearing structure. F. M. Bley. 2,418,219; Apr. 1.  
 Bearing structure for liquids sensitive to coagulation. H. L. Davis. 2,428,411; Oct. 7.  
 Bearing support. J. A. Johnson. 2,414,814; Jan. 28.  
 Bearing unit for tail wheels. J. B. Bennett and J. J. McCarter. 2,427,831; Sept. 23.  
 Bearings in plates, Mounting. C. F. Rubin. 2,427,072; Sept. 9.  
 Bearings, Making jewel. T. L. Boswell. 2,426,546; Aug. 26.  
 Beater. F. C. Booth. 2,430,600; Nov. 11.  
 Beater and selector, Pulp. H. D. Wells. 2,424,726; July 29.  
 Beater for disintegrating paper containing resin. M. Goehler, F. H. Reimer, and E. F. Davis. 2,423,097; July 1.  
 Beating device, Egg. E. M. Morgan. 2,424,703; July 29.  
 Bedbucket, Dump. C. W. Bernard. 2,417,288; Mar. 11.  
 Bed, Collapsible. C. A. Linsley. 2,418,307; Apr. 1.  
 Bed construction, Hospital. R. G. Harmanson. 2,418,259; Apr. 1.  
 Bed, Cradle. G. G. Madden and R. G. Whitford. 2,429,834; Oct. 28.  
 Bed, Folding. W. Hand. 2,423,699; July 8.  
 Bed for tractors, Pickup. J. I. Michaels. 2,425,892; Aug. 19.  
 Bed for use in knitting machines, Needle. A. Morgenstern. 2,416,938; Mar. 4.  
 Bed hook. M. N. Rainier. 2,420,095; May 6.  
 Bed lamp. L. C. Gustafson. 2,418,877; Apr. 15.  
 Bed lamp. G. T. Woodall. 2,428,105; Sept. 30.  
 Bed screen. P. N. Gregory. 2,425,466; Aug. 12.  
 Bedspring bracket. S. Z. Cohen and M. Rosenberg. 2,432,724; Dec. 16.  
 Bed-spring frames. H. Raginsky. 2,430,301; Nov. 4.  
 Bed switch. R. A. Fletcher. 2,425,790; Aug. 19.  
 Beer and like beverages, Clarifying and stabilizing. H. Joachim. 2,416,007; Feb. 18.  
 Beer meter. C. S. Hutsell. 2,420,708; May 20.  
 Bell. A. R. Euler. 2,417,297; Mar. 11.  
 Bell, Alarm. A. W. Fruh. 2,432,742; Dec. 16.  
 Bell, Alternating current electric. F. G. Barber. 2,418,863; Apr. 15.  
 Bell for electrical machines, End. V. A. Hoover. 2,428,162; Sept. 30.  
 Bell, Horseshoe. F. Brown. 2,428,648; Oct. 7.  
 Belt. J. Chianese. 2,426,435; Aug. 26.  
 Belt. M. A. Elliott. 2,426,731; Sept. 2.  
 Belt. E. Nassimbene. 2,417,512; Mar. 18.  
 Belt. J. K. Seitz. 2,430,957; Nov. 18.  
 Belt. P. D. Suloff. 2,425,575; Aug. 12.  
 Belt abrading machine. J. B. Tavano. 2,423,737; July 8.  
 Belt agitator. Twisted. J. J. Megal. 2,414,316; Jan. 14.  
 Belt and band and its fastening, Waist. F. J. Bayliss. 2,414,253; Jan. 14.  
 Belt and buckle. R. N. Wiethorn. 2,423,668; July 8.  
 Belt apparatus for ore separators, Pan motion. F. P. Stewart. 2,421,397; June 3.  
 Belt, Cartridge. H. E. Pocock. 2,416,641; Feb. 25.  
 Belt drive, Variable-speed. A. F. Alexander. 2,417,047; Mar. 11.  
 Belt, Expandible. E. Lutz and S. Segal. 2,415,254; Feb. 4.  
 Belt for babies and other small children. R. P. L. Veyt. 2,429,283; Oct. 21.  
 Belt for garters and sanitary pads. L. Roseman. 2,425,397; Aug. 12.  
 Belt for infants, Safety. A. Picard. 2,414,698; Jan. 21.  
 Belt, Garment. D. Bensel. 2,427,119; Sept. 9.  
 Belt hook package. H. Koester. 2,420,783; May 20.  
 Belt lifter. A. A. Davis. 2,418,337; Apr. 1.  
 Belt link, Metallic cartridge. F. Goldfisher. 2,426,448; Aug. 30.  
 Belt link, Metallic cartridge. P. O. Persson. 2,420,908; May 20.  
 Belt machine, Abrasive. L. Roth and J. M. Schnaus. 2,421,289; May 27.  
 Belt, Transmission and conveyor. H. M. Kuhn. 2,432,427; Dec. 9.  
 Belt type solid separator. J. H. V. Finney, Jr. 2,417,477; Mar. 18.  
 Belt, Wire covered. M. A. Crosby. 2,423,138; July 1.  
 Belt, Wire covered molded cog. M. A. Crosby. 2,429,994; Nov. 4.  
 Belt, Wire reinforced. R. F. and A. R. Lindsay. 2,414,822; Jan. 28.  
 Belt, Wire reinforced double cog. A. L. Freedlander, D. L. Waugh, and E. H. Kremer. 2,430,500; Nov. 11.  
 Belt, Woven wire tube covered. M. A. Crosby. 2,429,993; Nov. 4.  
 Belting, Corrugated. A. J. Buren. 2,423,579; July 8.  
 Belts, Curing V-type. C. W. Yelm. 2,420,278; May 6.  
 Bench, Chain saw filing. E. F. Huffsmith. 2,413,919; Jan. 7.



- Bench, Collapsible. S. W. Alderfer. 2,426,573; Aug. 26.  
 Bench vise. L. J. McKay. 2,420,002; May 6.  
 Bender with adjustable stops, Pivoted. E. Wallace. 2,430,899; Nov. 18.  
 Bending apparatus. L. J. Whalen. 2,414,681; Jan. 21.  
 Bending machine. M. Culkosky and K. Oresik. 2,427,949; Sept. 23.  
 Bending machine. T. Larsen. 2,430,348; Nov. 4.  
 Bentonite and proteolytic enzyme treatment of beer. L. Wallerstein. 2,433,411; Dec. 30.  
 Bentonite, Dry, lightweight, expanded. P. Bechtner. 2,433,193; Dec. 23.  
 Benzoquinone mono-oxime semicarbazone as a fungicide. E. C. Ladd. 2,429,099; Oct. 14.  
 Benzothiazole sulfenamides as fungicides. J. B. Skaptason. 2,419,294; Apr. 22.  
 Benzothiazyl disulfide-diarylguanidine derivatives. A. R. Davis. 2,430,162; Nov. 4.  
 Benzoxazoles and preparation. A. W. Anish. 2,429,178; Oct. 14.  
 Benzoyl peroxide treatment of reaction products of diisocyanates with linear polyesters. J. G. Cook and R. C. Seymour. 2,431,921; Dec. 2.  
 Beret. A. Andra. 2,416,507; Feb. 25.  
 Berth, Collapsible infant. H. P. Zimmermann. 2,433,504; Dec. 30.  
 Berry box carrier. C. Bartsch. 2,421,048; May 27.  
 Beryllium ores, Beneficiation of. J. S. Kennedy and R. G. O'Meara. 2,414,815; Jan. 28.  
 Beta (acylthio) aldehydes and ketones and their preparation. W. H. Vinton. 2,427,582; Sept. 16.  
 Beta-alanine, Preparation of. P. M. Klirk. 2,416,630; Feb. 25.  
 Beta-alanine, Preparation of. J. H. Paden. 2,414,389; Jan. 14.  
 Beta-ethyl-naphthalene, Separation of. W. Swietoslawski. 2,428,102; Sept. 30.  
 Betaine derivative compositions. S. Shappirio. 2,430,031; Nov. 4.  
 Betaine derivatives and making same. L. Ruzicka and P. Plattner. 2,429,171; Oct. 14.  
 Beta-isobutyl amino-beta, beta-dimethyl, ethyl benzoate. J. R. Reasenberger and S. D. Goldberg. 2,421,129; May 27.  
 Beta-lactone, alcohol and hydrogen halide, Reaction of. T. L. Gresham and F. W. Shaver. 2,422,728; June 24.  
 Beta lactones, Preparation of. T. R. Steadman. 2,424,589; July 29.  
 Beta lactones, Preparation of. T. R. Steadman and P. L. Breyfogle. 2,424,590; July 29.  
 $\beta$ -nitroethanol and  $\beta$ -nitroethyl nitrate, Production of. A. E. W. Smith, C. W. Scaife, and R. H. Stanley. 2,424,510; July 22.  
 $\beta$ -nitro-ethyl ethers, Preparation of. A. E. W. Smith, R. H. Stanley, and C. W. Scaife. 2,416,650; Feb. 25.  
 Beta-norbornyl esters. H. A. Bruson. 2,425,173; Aug. 5.  
 Beta-substituted nitrile-cellulose products and making same. J. B. Rust. 2,415,042; Jan. 28.  
 Bevel device. H. Galbraith. 2,425,732; Aug. 19.  
 Bevel structure, Utility. W. Thomas. 2,414,777; Jan. 21.  
 Beverage bottle case. R. M. Scharff. 2,414,171; Jan. 14.  
 Beverage brewing and vending machine. I. S. Lime. 2,433,054; Dec. 23.  
 Beverage can. J. Coyle. 2,426,550; Aug. 26.  
 Beverage carbonating and dispensing container. A. T. Thompson. 2,432,261; Dec. 9.  
 Beverage dispenser. F. F. Gunther. 2,414,521; Jan. 21.  
 Beverage dispenser. A. R. Thompson. 2,413,736; Jan. 7.  
 Beverage production. H. W. and A. A. Peters. Re. 22,879; May 13.  
 Bib. F. Clark. 2,423,581; July 8.  
 Bib. G. M. Dunn. 2,423,489; July 8.  
 Bib assembly, Infant feeding. H. M. La Gier. 2,431,052; Nov. 18.  
 Bib, Baby's. G. A. Long. 2,430,941; Nov. 18.  
 Bib, Paper. M. R. Doyle. 2,424,680; July 29.  
 Bibette. F. C. Shattuck. 2,425,961; Aug. 19.  
 Bicycle. J. J. Sobirai. 2,424,639; July 29.  
 Bicycle gear shift, Three-speed. M. A. Barnett. 2,431,982; Dec. 2.  
 Bicycle generator. M. Katcher and N. C. Greene. 2,416,833; Mar. 4.  
 Bicycle locking device. N. W. Trautner. 2,416,505; Feb. 25.  
 Bicycle stand. E. A. Schultz. 2,414,903; Jan. 28.  
 Bicyclic compound containing a diphenylamine. J. G. McNally and J. B. Dickey. 2,422,029; June 10.  
 Bicyclo-olefinic compounds, Synthesis of. C. L. Thomas. 2,415,453; Feb. 11.  
 Biguanide salts, Conversion of. J. R. Ingram. 2,414,950; Jan. 28.  
 Bilge pump. T. Langan. 2,414,046; Jan. 7.  
 Billet and manufacture thereof, Composite. W. L. Keene and W. A. Carlson. 2,421,891; June 10.  
 Billet feeder. R. M. Rawlinson and L. H. Philleo. 2,429,525; Oct. 21.  
 Billfold. L. L. Sherwood. 2,416,026; Feb. 18.  
 Billfold. L. G. Stanley. 2,423,911; July 15.  
 Billfold and coin purse, Combination. C. Doppelt. 2,428,267; Sept. 30.  
 Billfold and coin purse, Combination. M. H. Hardy. 2,428,707; Oct. 7.  
 Billfold, Flexible stitchless. L. Feld. 2,425,461; Aug. 12.  
 Billfold with detachable front wall pockets. L. L. Sherwood. 2,432,254; Dec. 9.  
 Bill weight for cash drawers. F. L. West. 2,428,442; Oct. 7.  
 Bimetal, Manufacture of. J. M. Goulding. 2,423,810; July 8.  
 Bimetallic products. W. L. Keene. 2,417,760; Mar. 18.  
 Bin level control. E. V. Francis. 2,429,158; Oct. 14.  
 Bin structure, Material handling. R. S. Bailey. 2,430,203; Nov. 4.  
 Binder. H. Thomsen. 2,416,856; Mar. 4.  
 Binder attachment for sewing machines. J. E. Ackerman. 2,428,952; Oct. 14.  
 Binder for looms, Shuttle box. W. Languirand. 2,420,994; May 20.  
 Binder for mold compositions. H. Staeger. 2,433,168; Dec. 23.  
 Binder for periodicals. E. S. Ziegler. 2,414,007; Jan. 7.  
 Binder, Loose-leaf. A. A. Anderskow. 2,421,404; June 3.  
 Binder, Loose-leaf. A. M. Martin. 2,421,799; June 10.  
 Binder, Loose-leaf. R. M. Reynolds. 2,425,205; Aug. 5.  
 Binding and covering apparatus. C. E. Vorobik. 2,423,862; July 15.  
 Bindings, Blanket. D. M. Irwin. 2,418,886; Apr. 15.  
 Binocular magnifier, Head-supported. C. A. Ellis. 2,425,522; Aug. 12.  
 Binocular magnifying lens holder. C. A. Ellis. 2,422,661; June 24.  
 Binocular range estimating periscope operating on the coincidence principle. J. M. Strang. 2,420,506; May 13.  
 Binocular spectacles. M. Frommer. 2,431,798; Dec. 2.  
 Binocular telescope and range finder, Wide angle. I. C. Gardner. 2,428,797; Oct. 14.  
 Bird feeder. W. E. Thatcher. 2,430,541; Nov. 11.  
 Birdhouse. M. K. Benson. 2,424,733; July 29.  
 Bis (amino methyl propyl) sulfide. O. W. Cass. 2,429,392; Oct. 21.  
 Bis (carboxy methyl propyl) sulfide. O. W. Cass. 2,429,391; Oct. 21.  
 Bis (cyano methyl propyl) sulfide. O. W. Cass. 2,429,452; Oct. 21.  
 Bisdiethylaminoalkanes as insecticides. G. H. Morey. 2,433,525; Dec. 30.  
 Bis-dioxydiacetone nitriles, Aliphatic. C. F. H. Allen and J. A. Van Allan. 2,425,360; Aug. 12.  
 Bismuth compounds. R. A. Kuever and L. M. Wheeler. 2,414,650; Jan. 21.  
 Bit. S. A. Stokes. 2,425,132; Aug. 5.  
 Bit assembly and mounting therefor, Knockover. F. G. Weisbecker. 2,430,694; Nov. 11.  
 Bit, Bridle. H. and L. Garcia. 2,425,930; Aug. 19.  
 Bit construction, Knockover. H. W. and E. Start. 2,418,323; Apr. 1.  
 Bit holder. H. M. Morrow. 2,415,107; Feb. 4.  
 Bitumens for mineral aggregates, Increasing adhesivity of. A. B. Hersberger and F. C. Gzowski. 2,430,815; Nov. 11.  
 Bituminous composition comprising an asphalt and a polymerized ester of Methacrylic acid. E. W. Klinger. 2,420,082; May 6.  
 Bituminous composition having increased adhesion to mineral aggregate. J. M. Johnson. 2,426,220; Aug. 26.  
 Blackboard cleaner. S. S. Harter. 2,414,872; Jan. 28.  
 Blade. J. J. Palotsee. 2,422,434; June 17.  
 Blade and cover blind shutter. M. R. Hutchison, Jr. 2,423,706; July 8.  
 Blade and mounting means therefor, Fan. G. A. Dean. 2,425,088; Aug. 5.  
 Blade and mounting, Turbine. A. J. Phelan, C. O. Walden, and N. F. McGaffey. 2,430,140; Nov. 4.  
 Blade, Composite. E. Martin. 2,431,184; Nov. 18.  
 Blade, Cutoff. J. M. Luers. 2,424,041; July 15.  
 Blade, Cutting-off. J. M. Luers. 2,424,473; July 22.  
 Blade flapping angle control. I. I. Sikorsky. 2,415,148; Feb. 4.  
 Blade for plowshares, Interlocking reconditioning. V. B. Goedken. 2,431,639; Nov. 25.  
 Blade, Helicopter. I. I. Sikorsky. 2,426,123; Aug. 19.  
 Blade, Litter fork. C. O. Wotring. 2,432,643; Dec. 16.  
 Blade package. J. Muros. 2,425,337; Aug. 12.  
 Blade, Propeller. H. A. Berliner. 2,430,854; Nov. 18.  
 Blade, Propeller. G. W. Hardy. 2,428,970; Oct. 14.  
 Blade, Propeller. L. A. Heintzelman. 2,422,098; June 10.  
 Blade, Propeller. M. Weber. 2,415,380; Feb. 4.  
 Blade, Reinforced propeller. G. W. Brady. 2,424,875; July 29.  
 Blade, Reinforced propeller. J. H. McKee. 2,433,433; Dec. 30.  
 Blade, Rotor. H. H. Platt. 2,430,948; Nov. 18.  
 Blade, Rotor. Q. R. Wald. 2,426,130; Aug. 19.  
 Blade structure, Welded. R. C. Allen. 2,423,165; July 1.  
 Blades for axial flow compressors and turbines. A. R. Howell. 2,426,270; Aug. 26.  
 Blanching machine. F. M. McBeth. 2,418,519; Apr. 8.  
 Blank feeding means. H. Bobst. 2,418,065; Mar. 25.  
 Blanket, Electrically heated two-ply. I. O. Moberg. 2,432,785; Dec. 16.  
 Blanking circuit. C. E. Dolberg and R. G. Clapp. 2,427,523; Sept. 16.  
 Blanking control for radio beacon systems. R. M. Brink. 2,427,191; Sept. 9.



- Blanks for post and pedestal insulators, Method and apparatus for forming. E. M. Skipper. 2,425,270; Aug. 5.
- Blanks, Making pieced sole. J. Gargan. 2,431,170; Nov. 18.
- Blast cleaning. W. C. Wall and G. A. Wilkins. 2,426,072; Aug. 19.
- Blast furnace cooler. S. P. Kinney. 2,415,595; Feb. 11.
- Blasting cap. L. A. Burrows. 2,427,899; Sept. 23.
- Blasting cap. F. R. Seavey. 2,420,201; May 6.
- Blasting cap primer composition. W. F. Filbert. 2,420,306; May 13.
- Bleaching. C. A. Hampel. 2,430,674; Nov. 11.
- Bleaching. C. A. Hampel. 2,433,661; Dec. 30.
- Bleaching bath and bleaching color film. F. J. Kaszuba. 2,419,900; Apr. 29.
- Bleaching of fatty acids compounds, Chlorite. C. A. Hampel. 2,433,662; Dec. 30.
- Bleaching process and apparatus. Oil. R. R. King, S. E. Pack, and F. W. Wharton. 2,428,082; Sept. 30.
- Bleeding mechanism for hydraulic brakes. S. Schnell. 2,430,954; Nov. 18.
- Blind-stitch machine. C. W. Mueller. 2,416,941; Mar. 4.
- Blind, Venetian. R. Cusumano. 2,420,301; May 13.
- Blind, Venetian. J. W. Dunn. 2,413,754; Jan. 7.
- Blind, Venetian. E. G. Ewing. 2,427,266; Sept. 9.
- Blind, Venetian. S. E. Lidin. 2,416,530; Feb. 25.
- Blind, Venetian. L. Spencer. 2,415,222; Feb. 4.
- Blinds, Method and apparatus for measuring and manufacturing Venetian. R. P. Lewis. 2,418,515; Apr. 8.
- Block: See—
- Building block. Snatch block.
  - Chock or safety block. Terminal block.
  - Connector block. Rubbing, sanding, or polishing block.
  - Electrical connector block. Shipping block.
  - Electrical terminal block. Toolmaker's utility block.
  - Grease-sealed underwater pulley block. Toy block.
  - Loom harness cam block. Tube holding block.
  - Sandpaper block. Turret block.
  - Block adjusting device, Sawmill head. W. T. Frazier. 2,430,925; Nov. 18.
  - Block plane. R. P. Lavietes. 2,423,713; July 8.
  - Block pressing apparatus. C. I. Young. 2,429,286; Oct. 21.
  - Block printing. B. Wykes. 2,432,364; Dec. 9.
  - Blocker and coil handling device. L. Leroy and F. J. Wood. 2,417,001; Mar. 4.
  - Blocking device, Wheel. H. Sax and L. J. Fox. 2,418,279; Apr. 1.
  - Blocking-layer cell. B. O. M. Gall and R. van Rossum. 2,433,752; Dec. 30.
  - Blood coagulant and preserving same. W. H. Seegers. 2,433,299; Dec. 23.
  - Blood count equipment. E. M. Gassert. 2,415,480; Feb. 11.
  - Blood extractor. L. E. Norris. 2,421,959; June 10.
  - Blood, Method and apparatus for collection and treatment of. B. S. Harrington. 2,422,194; June 17.
  - Bloom turning apparatus. W. S. Pandoff. 2,418,091; Mar. 25.
  - Blouse. M. Sholder. Re. 22,906; Aug. 12.
  - Blowdown device. J. L. Mainwaring. 2,431,057; Nov. 18.
  - Blower. R. A. Mayne. 2,419,411; Apr. 22.
  - Blower. R. A. Mayne. 2,431,648; Nov. 25.
  - Blower control. W. A. Haugsted. 2,418,835; Apr. 15.
  - Blower, Power-driven soot. De L. E. Hibner and F. C. Arey. 2,421,940; June 10.
  - Blower, Transport. D. A. Grossman. 2,421,418; June 3.
  - Blowgun. W. B. Knight and A. R. Meadors, Jr. 2,419,720; Apr. 29.
  - Blowpipe. S. R. Oldham. 2,430,531; Nov. 11.
  - Blowpipe nozzle blanks, Making. S. R. Oldham. 2,423,203; July 1.
  - Blow torch for use with solidified fuel. R. Dinklage. 2,414,455; Jan. 21.
  - Blowtorch with vertical retort. L. J. Cieminski. 2,431,109; Nov. 18.
  - Board: See—
    - Clip board. Plotting board.
    - Combination drawing board. Public speaking criticism board.
    - Dipping board. Running board.
    - Drafting board. Safety adjustable pipe stabbing board.
    - Drawing board. Sewing machine table board.
    - Finger board.
    - Game board.
    - Laminated board.

Board and paper, Production of coated. H. C. Fisher. 2,419,207; Apr. 22.

Board and straightedge, Drawing. J. Morrison. 2,420,835; May 20.

Board for jewelers, Abrasive. V. Scatone. 2,430,785; Nov. 11.

Board having foldable supports, Sectional ironing. E. C. Booth. 2,424,734; July 29.

Boat. M. W. Humphreys. 2,415,495; Feb. 11.

Boat and boat construction. H. M. Davidson. 2,426,729; Sept. 2.

Boat construction. C. H. Clement, Jr. 2,422,183; June 17.

Boat construction. A. G. S. Sandison. 2,413,787; Jan. 7.

Boat construction. S. F. Streicker and E. W. Malek. 2,424,672; July 29.

Boat construction, Small. V. Harasty. 2,418,636; Apr. 8.

Boat, Folding trailer. L. J. Rutledge. 2,422,930; June 24.

Boat hull construction. H. Ditchburn. 2,433,745; Dec. 30.

Boat, Life saving. G. H. Bingham, Jr. 2,421,679; June 3.

Boat, Mechanically driven. L. L. Riley. 2,425,441; Aug. 12.

Boat propelling and steering unit. B. D. Law. 2,415,183; Feb. 4.

Boats, Manufacturing. D. M. Blakely. 2,425,507; Aug. 12.

Bob pin. F. D. Reynolds. 2,414,124; Jan. 14.

Bob, Plumb. J. I. Roose. 2,420,096; May 6.

Bobbie pin holder. R. E. Gould. 2,420,704; May 20.

Bobby pin. L. R. Westby. 2,417,335; Mar. 11.

Bobbin arbor. W. E. D. Welch. 2,416,785; Mar. 4.

Bobbin delivery cradle for weft replenishing looms. W. A. Blanchard. 2,426,759; Sept. 2.

Bobbin holder. G. R. Fassett. 2,432,612; Dec. 16.

Bobbin holder. J. E. Leake. 2,418,079; Mar. 25.

Bobbin receiver and support therefor, Spent. R. G. Turner. 2,430,149; Nov. 4.

Bobbin receiver for weft replenishing looms, Flexible. H. R. Wing. 2,432,845; Dec. 16.

Bobbin receiver for weft replenishing looms, Partitioned. R. G. Turner. 2,428,251; Sept. 30.

Bobbin receiver for weft replenishing looms, Spent. R. G. Turner. 2,420,918; May 20.

Bobbin winder mechanism. C. E. Colegrove. 2,432,138; Dec. 9.

Bobbin, Yarn. O. Lobl. 2,422,358; June 17.

Bodies of cork, Making. J. Ehrlich. 2,430,922; Nov. 18.

Body and butt of automatic firearms, Assembling. J. Vesely. 2,423,740; July 8.

Body for utility trucks. J. H. Holan, Jr., and H. J. Troche. 2,426,772; Sept. 2.

Body maker and conveyor, Tubular. C. S. Seltzer. 2,432,490; Dec. 9.

Body or footrest. R. R. Temple. 2,415,266; Feb. 4.

Body with movable parts. M. Marty. 2,421,279; May 27.

Bogie coupler. H. Handler. 2,424,980; Aug. 5.

Boiler: See—

    - Auxiliary boiler. Electrical induction boiler.
    - Domestic and central-heating boiler. Steam boiler.
    - Domestic water tube boiler. Steam locomotive boiler.
    - Vertical steam boiler.
    - Waste heat boiler.

Boiler. J. Bilan. 2,428,905; Oct. 14.

Boiler. G. A. Close. 2,421,684; June 3.

Boiler. R. E. Zoller. 2,415,123; Feb. 4.

Boiler and hot-water heater. L. E. Burkhardt. 2,431,460; Nov. 25.

Boiler construction. L. J. Genella. 2,415,685; Feb. 11.

Boiler feed-water system. R. F. Schaub. 2,420,624; May 13.

Boiler plug. A. C. Schaul. 2,416,548; Feb. 25.

Boiler system with cooking chamber. E. J. Le Claire. 2,427,564; Sept. 16.

Boiler water feeder. M. E. Chandler. 2,419,821; Apr. 29.

Bolometer. B. H. Billings. W. L. Hyde, and E. E. Barr. 2,423,476; July 8.

Bolometric thermistor. J. A. Becker. 2,414,792; Jan. 28.

Bolt anchor applying tool. W. G. Hollwarth. 2,428,458-9; Oct. 7.

Bolt and retracting means therefor, Breech. R. L. Jenkinson. 2,430,680; Nov. 11.

Bolt for firearms, Breech. G. W. Patchett. 2,425,684; Aug. 12.

Bolt, Grip. E. J. Cole. 2,428,783; Oct. 14.

Bolt, Lock. S. C. George. 2,425,464; Aug. 12.

Bolt retracting means, Breech. F. W. Sampson and G. J. Hyde. 2,418,906; Apr. 15.

Bolt stop for firearms. E. G. Reising. 2,422,853; June 24.

Bolt structure for semiautomatic rifles, Composite. G. A. Yorks. 2,424,264; July 22.

Bolt, Stud. J. W. Batchelder. 2,421,181; May 27.

Bomb. R. A. Peterson. 2,419,854; Apr. 29.

Bomb. L. C. Sonnenschein. 2,428,744; Oct. 7.

Bomb, Armor-piercing drop. H. J. Nichols. 2,422,920; June 24.

Bomb, Demolition. W. C. Goss. 2,417,980; Mar. 25.

Bomb hoisting band, Universal. L. F. Mahan, W. C. Hasselhorn, and E. H. Ziebold. 2,433,523; Dec. 30.

Bomb, Liquid. B. Walker. 2,416,362; Feb. 25.

Bomb release. G. H. Leland. 2,430,940; Nov. 18.

Bomb sight. C. L. Norden and T. H. Barth. 2,428,678; Oct. 7.

Bombsight, Telescopic dive. F. P. Sherman. 2,424,257; July 22.

Bomb, Target seeking aerial. G. V. Rylsky. 2,421,085; May 27.

Bonding machine. H. Hacklander. 2,432,412; Dec. 9.

Bonding of laminates by means of isocyanates. B. C. Pratt and H. S. Rothrock. 2,430,479; Nov. 11.

Bonding of rubber and rubberlike compositions. T. K. Cox. 2,427,197; Sept. 9.

Bookbinding device. J. H. Garrett. 2,422,780; June 24.

Bookbinding machine. T. Harrison and J. L. Brooks. 2,420,705; May 20.

Book, Bound. J. P. Rose. 2,423,817; July 8.

Bookholder. E. H. Anderson. 2,422,877; June 24.

Bookholder. E. Kopp. 2,419,721; Apr. 29.



- Bookholder. A. Poch. 2,423,048; June 24.  
 Bookholder with secret pocket. Photo and match. S. Hyman. 2,431,561; Nov. 25.  
 Book-marker. H. O. Booth. 2,424,541; July 29.  
 Boom construction. G. L. Turner. 2,433,584; Dec. 30.  
 Booster brake. C. E. Bricker. 2,419,113; Apr. 15.  
 Booster for a lubricating system, Pressure. N. W. Morse. 2,422,250; July 17.  
 Booster pump. R. R. Curtis and T. R. Dinsmore. 2,419,676; Apr. 29.  
 Boosters, Explosive. J. Taylor and H. R. Wright. 2,424,374; July 22.  
 Boot, Air. T. E. Hedman. 2,430,466; Nov. 11.  
 Boot, Animal. L. Huddleston. 2,424,172; July 15.  
 Boot construction. E. V. Jaeger and R. M. Plympton. 2,428,626; Oct. 7.  
 Boot, Surgical. F. B. Van Hoesen. 2,423,354; July 1.  
 Boot upper with shaped upper edge. C. D. Rouch. 2,425,955; Aug. 19.  
 Boot with expansible top. A. M. Malluk. 2,426,700; Sept. 2.  
 Bootee. L. A. Feldhake. 2,415,004; Jan. 28.  
 Borate tailings, Utilizing. H. C. Smith. 2,414,068; Jan. 7.  
 Bore gauge. J. C. Nilsson. 2,424,497; July 22.  
 Boreholes, Method and apparatus for logging. H. Guyod. 2,428,155; Sept. 30.  
 Boring attachment, Tapered. L. V. Meador and R. J. McDaniel. 2,431,269; Nov. 18.  
 Boring bar. S. Lankheet. 2,426,359; Aug. 26.  
 Boring bar. R. L. Mealey. 2,430,026; Nov. 4.  
 Boring bar guiding mechanism. F. P. Healy and E. A. Allen. 2,416,996; Mar. 4.  
 Boring machine. K. F. Gallimore. 2,428,309; Sept. 30.  
 Boring machine. W. F. Mitchell. 2,416,402; Feb. 25.  
 Boring machine. H. N. Seyferth and G. Stewart. 2,421,655; June 3.  
 Boring machine. W. H. Weimer. 2,424,524; July 22.  
 Boron fluoride recovery process. W. A. Schulze and W. N. Axe. 2,419,504; Apr. 22.  
 Boron, Making. W. C. Goss. 2,415,946; Feb. 18.  
 Boron trifluoride, Manufacture of. De W. S. Young and J. H. Pearson. 2,416,133; Feb. 18.  
 Bottle and booklet package, Combination. R. L. Rheinstrom. 2,422,314; June 17.  
 Bottle and holder, Babys' milk. T. Bailey. 2,416,812; Mar. 4.  
 Bottle cap. P. G. Coleman. 2,423,582; July 8.  
 Bottle cap. T. F. Saffady. 2,421,356; May 27.  
 Bottle cap. H. F. Shannon. 2,433,629; Dec. 30.  
 Bottle cap. J. C. Terry. 2,421,662; June 3.  
 Bottle capping head. C. W. Goodwin. 2,416,001; Feb. 18.  
 Bottle capping machine. A. H. Bedworth and L. G. Curtis. 2,414,434; Jan. 21.  
 Bottle carrier. W. M. Bassichis. 2,414,708; Jan. 21.  
 Bottle carrier. R. T. Cox. 2,427,838; Sept. 23.  
 Bottle carrier. W. D. Egly. 2,420,069; May 6.  
 Bottle carrier. D. Ferris. 2,433,037; Dec. 23.  
 Bottle carrier. C. D. Keith and J. F. O'Brien. 2,416,999; Mar. 4.  
 Bottle carrier. J. M. Lawler and J. J. Kuettel. 2,431,813; Dec. 2.  
 Bottle carrier. J. C. Lee. 2,420,603; May 13.  
 Bottle carrier. D. W. Mattson. 2,415,598; Feb. 11.  
 Bottle carrier. D. McCalla. 2,419,413; Apr. 22.  
 Bottle carrier. T. W. Mullen. 2,417,774; Mar. 18.  
 Bottle carrier. E. A. Reutner. 2,426,750; Sept. 2.  
 Bottle carrier. C. M. Shaw and H. S. Putney. 2,425,401; Aug. 12.  
 Bottle carrier. R. G. Stigler. 2,431,713; Dec. 2.  
 Bottle carrier. J. A. Strobl. 2,432,351; Dec. 9.  
 Bottle carrier. E. H. Ulbrich. 2,432,700; Dec. 16.  
 Bottle carrier. R. M. Ulrich. 2,426,756; Sept. 2.  
 Bottle carrier. R. Warner and H. B. Smalley. 2,430,415; Nov. 4.  
 Bottle carrier having partition members, Fibreboard. M. G. Hall. 2,431,932; Dec. 2.  
 Bottle cleaner conformable to shape of bottle. Y. Nishizaka and J. Teruya. 2,432,924; Dec. 16.  
 Bottle closure. M. Febraro. 2,418,630; Apr. 8.  
 Bottle closure. C. E. Paine. 2,418,723; Apr. 8.  
 Bottle crownner, Plastic. H. E. Rue. 2,422,750; June 24.  
 Bottle crowning machine. M. S. Weaver. 2,427,376; Sept. 16.  
 Bottle dispensing apparatus. A. Carlson. 2,424,303; July 22.  
 Bottle dispensing apparatus. A. Carlson. 2,429,745; Oct. 28.  
 Bottle dryer. J. Stepanian. 2,419,040; Apr. 15.  
 Bottle handling mechanism. E. Kelly. 2,426,356; Aug. 26.  
 Bottle holder. J. C. Chenette. 2,433,091; Dec. 23.  
 Bottle holder. F. C. Ransom. 2,420,191; May 6.  
 Bottle, Ink. S. W. Jaeger. 2,415,855; Apr. 8.  
 Bottle inspection apparatus. E. W. Kellogg. 2,426,355; Aug. 26.  
 Bottle, Nursing. H. H. Ganson. 2,426,927; Sept. 2.  
 Bottle retainer, Nursing. H. Siegel. 2,428,725; Oct. 7.  
 Bottle, Vacuum. A. M. Senter, Jr. 2,419,291; Apr. 22.  
 Bottle warmer, Electric. F. F. Gunther. 2,424,161; July 15.  
 Bottle warmer for automobiles. C. F. Fuller. 2,429,512; Oct. 21.  
 Bottom dump vehicle. L. R. Simmons. 2,428,533; Oct. 7.  
 Bottom-fill truck tank. J. H. De Frees. 2,423,879; July 15.  
 Bottom washer machine for battery cans. A. Schmidt. 2,428,098; Sept. 30.  
 Bourdon tube variable resistance valve. G. I. Bilyeu. 2,432,082; Dec. 9.  
 Bow tie, Made-up. I. A. Gamer. 2,428,663; Oct. 7.  
 Bowl mill with vane means providing uniform velocity upwardly swirling air currents. G. H. Frangquist. 2,431,746; Dec. 2.  
 Bowl type oil burner. J. G. Behrendt and L. C. Ruthy. 2,423,079; July 1.  
 Bowling ball construction. C. H. Sauer. 2,414,672; Jan. 21.  
 Box: See—  
 Annealing box. Letter box.  
 Chick box. Lunch box.  
 Cigarette box. Mail box.  
 Circuit distribution box. Meter box.  
 Compartmented insulated lunch box. Paper box.  
 Convertible packing box. Photographer's film numbering box.  
 Derrail guide box. Plug and switch box.  
 Divination box. Powder box.  
 Electric fuse box. Railway journal box.  
 Electric outlet box. Safety power extension and junction box.  
 Fare box. Sand box.  
 Foldable cardboard box. Folding display box.  
 Folding display box. Shipping and display box.  
 Folding paperboard box. Stuffing box.  
 Friction box. Variable capacity folding box.  
 Journal box. Sept. 30.  
 Junction box. Boxcar unloader. H. G. Onstad. 2,426,562; Aug. 26.  
 Box construction, Cardboard folding. S. Conescu. 2,414,854; Jan. 28.  
 Box construction, Fare. A. Main. 2,430,473; Nov. 11.  
 Box construction, Paper. S. R. Arner. 2,415,721; Feb. 11.  
 Box dumping machine. D. S. Orlando. 2,424,252; July 22.  
 Box for baby chicks, Transportation. K. I. Miller. 2,415,143; Feb. 4.  
 Box for chicks and the like, Shipping. R. N. Richards. 2,422,438; June 17.  
 Box for looms, Shuttle. G. H. Utter. 2,417,668; Mar. 18.  
 Box for railway cars, Journal. J. W. Gallagher. 2,431,239; Nov. 18.  
 Box securing means, Outlet. J. G. Loy. 2,430,067; Nov. 4.  
 Box springs and making the same. R. A. Richardson. 2,414,978; Jan. 28.  
 Box unit, Outlet. J. F. O'Brien and E. S. Boynton. 2,426,235; Aug. 26.  
 Box with adjustable bottom, Display. I. Dorfman. 2,420,773; May 20.  
 Box with electrical connectors, Junction. H. C. Vedder. 2,431,002; Nov. 18.  
 Box with slidable latch, Slide. H. G. Towne and L. M. Peterson. 2,424,642; July 29.  
 Box with sliding latch. F. Frederics. 2,430,220; Nov. 4.  
 Box with slotted divider members, Folding. H. G. Bergstrom. 2,431,535; Nov. 25.  
 Boxed produce load. H. C. Pierce. 2,415,368; Feb. 4.  
 Boxes, Drive of rayon spinning. L. C. Goodwin and C. Tinsley. 2,418,705; Apr. 8.  
 Boxes, Making collapsed. S. Bergstein. 2,430,755; Nov. 11.  
 Bra, Backless strapless. M. Lobel. 2,428,572; Oct. 7.  
 Brace, Cargo. E. O. Hermann. 2,425,875; Aug. 19.  
 Brace for boxed produce loads. J. N. Adams. 2,419,754; Apr. 29.  
 Brace for fluorescent lamp sockets. S. M. Weisberg. 2,429,951; Oct. 28.  
 Brace, Ladder. V. M. Fowler. 2,419,065; Apr. 15.  
 Brace, Lawn mower frame. R. S. Kersey. 2,433,126; Dec. 23.  
 Brace, Rail. J. H. Asselin. 2,419,701; Apr. 29.  
 Brace, Rail. J. H. Asselin. 2,426,137-8; Aug. 19.  
 Bracelet. K. R. Larson. 2,425,477; Aug. 12.  
 Bracelet chain. J. Cedar. 2,429,393; Oct. 21.  
 Bracelet, Expansible. L. C. Miller. 2,430,777; Nov. 11.  
 Bracelet, Expansion. J. A. Kubice. 2,433,766; Dec. 30.  
 Bracelet, Flexible. M. Barmache and G. E. Lederman. 2,427,117; Sept. 9.  
 Bracelet, Link. J. Goldblatt. 2,425,465; Aug. 12.  
 Bracelet, Molded. N. Barbieri. 2,422,518; June 17.  
 Bracelet or the like, Articulated. I. Taegtstroem. 2,429,036; Oct. 14.  
 Bracelet or the like, Link. P. S. Singer. 2,421,720; June 3.  
 Bracket: See—  
 Adjustable bracket. Outboard motor bracket.  
 Adjustable swing bracket. Retractable bracket.  
 Angle plate clamping bracket. Scaffolding bracket.  
 Bedspring bracket. Supporting bracket.  
 Combined curtain, drape and shade bracket. Swinging bracket.  
 Door check bracket. Takedown type swinging wall bracket.  
 Electric fence bracket. Vehicle mounted carrier bracket.  
 Festoon ring bracket.  
 Bracket and support, Interlocked. F. Crouch. 2,418,968; Apr. 15.



- Bracket for antiaircraft machine gun mounts, Chest and pump hanger. J. C. Haire. 2,429,618; Oct. 28.
- Bracket for automobiles, Bicycle holding. E. C. Hyde. 2,415,286; Feb. 4.
- Bracket for bicycle generators or the like. M. Katcher. 2,430,429; Nov. 4.
- Bracket for crated stoves, Spacing. C. L. Hardwick. 2,420,425; May 13.
- Bracket for floats on shipboard, Stowage. A. N. Anderson. 2,425,911; Aug. 19.
- Bracket for Venetian blinds, Head rail and mounting. J. L. Hunter. 2,423,978; July 15.
- Bracket or support, Bumper. D. E. Pearson. 2,432,249; Dec. 9.
- Braiding machine. C. M. Bell. 2,423,288; July 1.
- Brake—See—
- Aerodynamic brake.
  - Air brake.
  - Automatically adjusting brake.
  - Booster brake.
  - Clasp brake.
  - Coaster brake.
  - Disc brake.
  - Disk brake.
  - Drawworks brake.
  - Drive shaft brake.
  - Dual wheel brake.
  - Electroinertia brake.
  - External contracting band brake.
  - Fluid actuated brake.
  - Fluid pressure brake.
  - Hand brake.
  - Hydraulic brake.
  - Hydrodynamic brake.
  - Motor plugging brake.
  - Power brake.
  - Press brake.
  - Rotor brake.
  - Special emergency brake.
  - Variable load brake.
  - Vehicle brake.
- Brake. A. A. Benson. 2,422,713; June 24.
- Brake. N. Flesch. 2,422,004; June 10.
- Brake. R. A. Goepfrich. 2,417,192; Mar. 11.
- Brake. R. A. Goepfrich. 2,418,632; Apr. 8.
- Brake. J. J. Low. 2,419,784; Apr. 29.
- Brake. H. Perrot. 2,418,848; Apr. 15.
- Brake. E. J. Sadon. 2,424,922; July 29.
- Brake. R. J. Schumacher. 2,431,774; Dec. 2.
- Brake. E. J. Simanek. 2,416,960; Mar. 4.
- Brake. C. E. Tack. 2,418,435; Apr. 1.
- Brake. K. M. Yost. 2,426,135; Aug. 19.
- Brake actuating system. E. R. Price. 2,429,195; Oct. 14.
- Brake adjuster. J. B. Hunt. 2,429,023; Oct. 14.
- Brake adjuster. R. A. Goepfrich. 2,424,655; July 29.
- Brake adjusting means. R. A. Goepfrich and B. E. House. 2,423,015; June 24.
- Brake and adjustment therefor, Fluid pressure operated. J. Norstrom and A. L. Smith. 2,422,121; June 10.
- Brake and adjustment therefor, Slidable anchorage. D. E. Willis. 2,431,441; Nov. 25.
- Brake and clutch unit, Centrifugal. W. P. Lear. 2,421,949; June 10.
- Brake and like apparatus, Hydraulic. H. Trevaskis. 2,421,728; June 3.
- Brake arrangement. J. H. Coombes. 2,416,820; Mar. 4.
- Brake arrangement. C. L. Eksergian. 2,416,869; Mar. 4.
- Brake beam. W. H. Baselt. 2,427,893; Sept. 23.
- Brake beam, End guided. C. R. Busch. 2,427,548; Sept. 16.
- Brake beam safety hanger. C. L. Orr and H. W. Stertzbach. 2,420,337; May 13.
- Brake beam safety support. L. W. Kass. 2,416,446; Feb. 25.
- Brake beam support. D. S. Barrows. 2,429,576; Oct. 21.
- Brake control. D. Parrett. 2,418,048; Mar. 25.
- Brake control, Automatic. T. H. Thomas and E. R. Price. 2,423,057; June 24.
- Brake control device. C. L. Eksergian. 2,426,575; Aug. 26.
- Brake control mechanism. L. D. Thostenson. 2,420,110; May 6.
- Brake control system. S. Schnell. 2,422,370; June 17.
- Brake control system, Electromagnetic. D. Santini and A. Nelson. 2,424,333; July 22.
- Brake disc. C. L. Eksergian. 2,431,741; Dec. 2.
- Brake element. W. Mann. 2,418,719; Apr. 8.
- Brake for airplane wheels. F. C. Frank. 2,431,667; Nov. 25.
- Brake for axminster loom weft needles. H. A. Whitin. 2,429,006; Oct. 14.
- Brake for baby carriages. J. F. Stewack. 2,425,574; Aug. 12.
- Brake for baby carriages, Automatic. G. Bigus, Jr. 2,430,629; Nov. 11.
- Brake for baby carriages, strollers and the like. A. M. Boudreau. 2,420,412; May 13.
- Brake for electric motors. C. E. Meyerhoefer. 2,429,325; Oct. 21.
- Brake for loom letoff mechanism. A. B. Shelton. 2,417,379; Mar. 11.
- Brake for roller coasters, Safety. H. J. Humphrey. 2,422,416; June 17.
- Brake for vehicles, Load-responsive fluid-pressure. B. H. Browthall. 2,424,913; July 29.
- Brake lever, Emergency. W. F. Benning. 2,421,405; June 3.
- Brake mechanism. L. R. Buckendale and R. K. Super. 2,432,983; Dec. 23.
- Brake mechanism. V. R. Edgar. 2,422,187; June 17.
- Brake mechanism. C. L. Eksergian. 2,415,345; Feb. 4.
- Brake mechanism. C. L. Eksergian and P. W. Gaenssle. 2,423,694; July 8.
- Brake mechanism and brake-controlled driving means for motor vehicles, Service. J. D. Matlock. 2,426,365; Aug. 26.
- Brake mechanism and control therefor, Hydraulic. O. and H. O. Kylin. 2,421,206; May 27.
- Brake mechanism, Hydraulic. A. L. Lee. 2,429,163; Oct. 14.
- Brake mounting. J. P. Tarbox. 2,423,055; June 24.
- Brake operating means for tractors. C. L. and M. M. Mehn. 2,418,186; Apr. 1.
- Brake operating mechanism. P. B. Camp. 2,416,251; Feb. 18.
- Brake operating structure, Automobile. A. P. Fergusson and H. S. Jandus. 2,429,224; Oct. 21.
- Brake rigging. W. A. Gantner. 2,427,956; Sept. 23.
- Brake rotor. J. P. Tarbox. 2,423,056; June 24.
- Brake structure. C. Hollerith. 2,423,315; July 1.
- Brake system. A. C. Chambers and F. B. Willis. 2,423,006; June 24.
- Brake system. M. Van Meter. 2,431,848; Dec. 2.
- Brake valve. H. E. Rose. 2,424,331; July 22.
- Brake, wheel, and axle assembly. B. E. House. 2,429,815; Oct. 28.
- Braking device for hoisting apparatus, Friction. P. N. Evans. 2,426,967; Sept. 2.
- Braking device regulated by motor speed and load. E. A. Derungs. 2,421,187; May 27.
- Branding tool. H. E. Prince. 2,427,067; Sept. 9.
- Brassiere. J. A. Coleman. 2,425,145; Aug. 5.
- Brassiere. M. G. Edleston. 2,418,016; Mar. 25.
- Brassiere. R. O. Ferguson. 2,425,673; Aug. 12.
- Brassiere. R. Freedman. 2,420,472; May 13.
- Brassiere. J. Glick. 2,424,453; July 22.
- Brassiere. H. Gluckin. 2,420,593; May 13.
- Brassiere. L. Hunau. 2,417,687; Mar. 18.
- Brassiere. L. Hunau. 2,421,561; June 3.
- Brassiere. R. J. Redares. 2,431,829; Dec. 2.
- Brassiere. J. E. Treadwell. 2,420,575; May 13.
- Brassiere. M. Witkower. 2,421,448; June 3.
- Brassiere. J. Wolf. 2,419,514; Apr. 22.
- Brassiere and similar garments. E. W. Gluckin. 2,427,402; Sept. 16.
- Brassiere, Strapless. H. Folb. 2,414,590; Jan. 21.
- Bread improver. W. S. Hutchinson and R. I. Derby. 2,426,736; Sept. 2.
- Bread-slicing machine, Reciprocating endless band knife. H. J. Criner. 2,430,160; Nov. 4.
- Bread transferring means for bread slicing machine. C. H. Petskeyes. 2,417,782; Mar. 18.
- Breakage detector, Yarn. W. D. Kellogg and R. F. Eshleman. 2,427,055; Sept. 9.
- Breaker for coffee makers, Seal. L. Reichold. 2,413,890; Jan. 7.
- Breaker point assembly. O. H. Thomas. 2,416,655; Feb. 25.
- Breaker strip construction. B. C. Johnson. 2,429,816; Oct. 28.
- Breaker strip structure for spaced wall cabinets. M. J. Gouloze. 2,432,751; Dec. 16.
- Breast pad. R. E. Gerst. 2,427,851; Sept. 23.
- Breast pump. P. W. Saunders. 2,419,795; Apr. 29.
- Breathing apparatus. H. C. Sontag. 2,424,586; July 29.
- Breach bolt latching mechanism. F. I. Rataiczak. 2,418,094; Mar. 25.
- Breach mechanism for machine guns. W. G. Boyd. 2,430,489; Nov. 11.
- Brewing. G. T. Reich. 2,414,669; Jan. 21.
- Brick grab. R. A. Fontaine. 2,416,575; Feb. 25.
- Brick, Treating. H. S. Rader. 2,430,647; Nov. 11.
- Brickwork structures, Erection of. E. G. Malthouse. 2,428,374; Oct. 7.
- Bridge control for electric blankets. G. C. Crowley. 2,429,453; Oct. 21.
- Bridge for junction boxes, Insulated. H. Kershaw. 2,427,285; Sept. 9.
- Bridge mounting for bifocal lenses, Vertically adjustable. E. C. Courney. 2,428,961; Oct. 14.
- Bridge, Power-measuring. E. L. Ginzton. 2,417,820; Mar. 25.
- Bridge structure. E. F. Janke, Sr. 2,417,825; Mar. 25.
- Bridge, Suspension. L. H. Shoemaker. 2,429,332; Oct. 21.
- Bridle. W. A. Bass. 2,426,427; Aug. 26.
- Bridle. G. W. Norris. 2,415,903; Feb. 18.
- Bridle bit. E. L. Ulrich. 2,421,173; May 27.
- Brief, Man's. I. Lehr. 2,431,571; Nov. 25.
- Brine flush-out for electrolytic cells. R. A. Horst and E. B. Port. 2,415,135; Feb. 4.
- Brine, Preparation of purified. R. L. Comstock. 2,433,601; Dec. 30.
- Briquette and making same, Metallurgical. F. Holz. 2,417,493; Mar. 18.
- Bristles, Extruded resinous. C. E. Slaughter. 2,433,325; Dec. 23.
- Broaching machine. P. Geren. 2,420,877; May 20.
- Broaching tool. E. Pisarelli. 2,431,343; Nov. 25.
- Broiler. F. H. Schneider. 2,430,848; Nov. 11.
- Bromopyridines, Production of. S. M. McElvain and M. A. Goese. 2,418,977; Apr. 15.
- Brooder, Feather. K. Rapp. 2,433,578; Dec. 30.
- Broom handle mounting. W. L. Grosch. 2,429,753; Oct. 28.
- Broom holder. W. F. Dickson. 2,422,891; June 24.
- Broom, Sweeping. J. S. Wilson. 2,420,158; May 6.
- Brush and connector, Electric contact. J. F. Settle. 2,429,847; Oct. 28.



- Brush and making same. E. W. Hall. 2,417,750; Mar. 18.
- Brush, Armature. F. G. Majer. 2,421,795; June 10.
- Brush attachment for liquid applicators. A. R. Christensen. 2,422,823; June 24.
- Brush, Bath and massage. W. Miller. 2,414,321; Jan. 14.
- Brush, Carbon. M. F. Peters and A. A. Beal. 2,428,036; Sept. 30.
- Brush, Ceiling and wall cleaning. J. A. Young. 2,425,852; Aug. 19.
- Brush construction. A. S. Johnson. 2,427,559; Sept. 16.
- Brush control for carpet sweepers, Spring. F. W. Pullen. 2,418,725; Apr. 8.
- Brush, Dusting. F. E. Beagle. 2,428,306; Sept. 30.
- Brush, Dynamoelectric apparatus. H. M. Elsey. 2,414,514; Jan. 21.
- Brush, Electrical. A. C. Henry and J. L. Bitonte. 2,416,480; Feb. 25.
- Brush, Electrical contact. D. Ramadanoff. 2,417,702; Mar. 18.
- Brush, Electrical contact. D. Ramadanoff. 2,425,046; Aug. 5.
- Brush, End. R. O. Peterson. 2,421,647; June 3.
- Brush ferrule for lipstick carrier cups, Detachable. D. A. Seaver. 2,426,418; Aug. 26.
- Brush, Folding shaving. W. B. Grogan. 2,418,510; Apr. 8.
- Brush for suction cleaners, Retractable. E. D. Boisselier. 2,432,086; Dec. 9.
- Brush, Fountain. H. L. Fischer. 2,416,684; Mar. 4.
- Brush, Fountain. M. W. Magann and W. A. McElvain. 2,417,370; Mar. 11.
- Brush holder. L. D. Britton. 2,423,926; July 15.
- Brush holder. P. B. Burrus. 2,426,815; Sept. 2.
- Brush holder. H. E. Priem. 2,423,658; July 8.
- Brush making machine. J. G. Baumgartner. 2,433,191-2; Dec. 23.
- Brush making machine. J. I. Carlson. 2,415,083; Feb. 4.
- Brush mechanism, Dabbling. M. Silva. 2,423,800; July 8.
- Brush, Paint. I. Kantor. 2,419,899; Apr. 29.
- Brush, Rotary. C. M. Kibbee. 2,417,113; Mar. 11.
- Brush, Static free. L. Marick. 2,426,315; Aug. 26.
- Brush structure with parallel flakes. A. C. Korte. 2,419,356; Apr. 22.
- Brush with hand-feed valve, Fountain shaving. V. A. Hussey. 2,425,474; Aug. 12.
- Brushes, brooms, and like articles, Handle operated. J. E. Horn. 2,432,098; Dec. 9.
- Brushing machine, Exterior pipe surface. D. A. Fields. 2,427,129; Sept. 9.
- Brushing mechanism for cleaning tubular pans. J. M. Luker. 2,430,132; Nov. 4.
- Bubble cap. I. E. Nutter. 2,428,889; Oct. 14.
- Bubble compositions. A. Raspet. 2,433,625; Dec. 30.
- Bubble forming device. R. S. Skinner. 2,430,999; Nov. 18.
- Bubble pipe. A. E. Neumann. 2,426,895; Sept. 2.
- Buck rake loader attachments for tractors. M. E. Puim. 2,427,301; Sept. 9.
- Bucket and closure, Cable controlled boom. J. H. Fitzgerald. 2,419,129; Apr. 15.
- Bucket locking means. H. W. Botten. 2,422,523; June 17.
- Buckle. A. J. Gore. 2,430,928; Nov. 18.
- Buckle and strap. F. J. Mack. 2,427,797; Sept. 23.
- Buckle, Bar. H. C. Robinson. 2,418,096; Mar. 25.
- Buckle, Penetrating prong. F. A. Sutton. 2,419,662; Apr. 29.
- Buckle, Slide loop. C. E. Anderson. 2,422,459; June 17.
- Buffer. L. A. Anderson. 2,426,661; Sept. 2.
- Buffer. G. E. Dath. 2,419,254; Apr. 22.
- Buffer. G. E. Dath. 2,420,701; May 20.
- Buffer for guns, Pneumatic barrel. L. A. Anderson. 2,422,767; June 24.
- Buffer for longitudinally driven members. J. K. Morris. 2,424,492; July 22.
- Buffer for railway cars, Spring and friction. G. E. Dath. 2,423,876-7; July 15.
- Buffer head. P. E. Hawkinson. 2,432,154; Dec. 9.
- Buffer, Railway car-end. G. E. Dath. 2,432,729; Dec. 16.
- Buffer, Resilient car-end. G. E. Dath. 2,430,494; Nov. 11.
- Buffer, Resilient car-end. S. B. Haseltine. 2,430,505; Nov. 11.
- Buffing device, Shoe. F. A. Quinn. 2,428,339; Sept. 30.
- Buffing machine. G. Castaldi. 2,430,909; Nov. 18.
- Buffing wheel. F. E. Hendrickson. 2,415,747; Feb. 18.
- Buggy and the like, Baby. W. F. Gresham. 2,415,686; Feb. 11.
- Building block. I. A. Overacker. 2,433,149; Dec. 23.
- Building construction. E. W. Marten. 2,419,843; Apr. 29.
- Building construction, Multistorey. K. M. Scott and O. Abisch. 2,424,371; July 22.
- Building core unit, Portable utility. J. F. Lankton. 2,419,319; Apr. 22.
- Building elements, Manufacturing. C. W. Kraus. 2,431,615; Nov. 25.
- Building, Fire-vent. A. L. Brown. 2,416,284; Feb. 25.
- Building heating and cooling panel system. V. L. Yarbrough. 2,425,775; Aug. 19.
- Building structure. H. T. Battin. 2,414,628; Jan. 21.
- Building structure. L. A. Falco. 2,423,695; July 8.
- Building structure. K. L. Wachsmann and W. Gropius. 2,421,305; May 27.
- Building units, Manufacturing faced. E. E. Arquette. 2,422,461; June 17.
- Building wall, Hollow. C. Temple. 2,432,354; Dec. 9.
- Bulb and cap, Welded. M. F. Weida. 2,425,448; Aug. 12.
- Bulkhead and dock. J. F. Condon. 2,420,228; May 6.
- Bulkhead clip. A. Robertson. 2,413,927; Jan. 7.
- Bulkhead, Portable. F. E. Welsh. 2,424,070; July 15.
- Bulldozer. E. A. Porch. 2,417,520; Mar. 18.
- Bullet trap. G. C. Andresen and H. Rockey. 2,422,284; June 17.
- Bullets, Making incendiary. E. R. Rechel. 2,425,005; Aug. 5.
- Bumper and draft gear, Spring. H. H. Pancake. 2,420,907; May 20.
- Bumper card holder. W. M. Carleton and F. A. Post. 2,431,108; Nov. 18.
- Bun making machine. W. C. Grimm and R. H. Linneman. Re. 22,875; May 6.
- Bundling machine. N. C. Heaton and S. A. Sarnecki. 2,425,430; Aug. 12.
- Buoy, Submarine detecting. C. Chilowsky. 2,422,337; June 17.
- Buoyant cable. A. L. Duna. 2,424,388; July 22.
- Buoyant cables, Sheathing of. H. N. Sheldermine and A. Cooper. 2,431,085; Nov. 18.
- Buoyant electric cable. C. E. Bennett. 2,419,053; Apr. 15.
- Buoyant electric cable. H. A. Tunstall. 2,428,480; Oct. 7.
- Buoys for hydrobombs, Recovery. C. C. Bell and R. M. Elliott. 2,415,863; Feb. 18.
- Burglar alarm, Electric. G. M. Horvitch. 2,423,649; July 8.
- Burglar alarm, Electric. A. F. Miller. 2,423,610; July 8.
- Burglar bar. F. L. Hawkins and W. D. Phillips. 2,422,547; June 1.
- Burner: See—
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|--|-----------------------------------|
| Bowl type oil burner.                      | Liquid fuel burner.               |
| Fuel oil burner.                           | Needle flame dual control burner. |
| Gas burner.                                |                                   |
| Hydroxylating pot type burner.             | Oil burner.                       |
| Hydroxylating pot type hydrocarbon burner. | Ribbon burner.                    |
| Internal-combustion gas burner.            | Rotary-grate burner.              |
| Inverted pot type burner.                  | Rotary head oil burner.           |
|  | Subatmospheric gas burner.        |
|  | Trough type oil burner.           |
- Burner construction. D. C. Breault. 2,414,442; Jan. 21.
- Burner cradle. B. C. Robbins. 2,424,286; July 22.
- Burner for solid fuels. W. M. Fulton. 2,427,596; Sept. 16.
- Burner for vacuum tube manufacture, Rotary. W. R. Moscrip. 2,428,032; Sept. 30.
- Burner safety control. R. E. Yates. 2,431,158; Nov. 18.
- Burner starting mechanism. B. W. Tullis. 2,431,665; Nov. 25.
- Burner with detachable generator chamber. J. L. Breese. 2,425,026; Aug. 5.
- Burner with heated top plate. E. L. Simpson. 2,428,998; Oct. 14.
- Burner with superimposed baffle, Gas. R. Groetchen. 2,429,022; Oct. 14.
- Burners, Cleaning. C. Serafinovitch. 2,429,299; Oct. 21.
- Burning solid fuels, Method and apparatus for. R. C. Johnson. 2,424,755; July 29.
- Burn-off machine. C. W. Schreiber and K. B. Vollstorf. 2,416,121; Feb. 18.
- Burr removing mechanism. J. U. Ridder. 2,423,468; July 8.
- Bus bar connector. D. D. Forbes. 2,433,209; Dec. 23.
- Bus construction, Electrical. P. B. Hoyer. 2,430,510; Nov. 11.
- Bus door. G. Trautvetter. 2,422,447; June 17.
- Bus, Helicopter. V. Bendix. 2,414,435; Jan. 21.
- Bus support construction. R. R. Pittman. 2,427,975; Sept. 23.
- Bushing, Composite. T. L. Fawick. 2,428,932; Oct. 14.
- Bushing, Composite insulating. A. Gaudenzi and E. Kern. 2,431,474; Nov. 25.
- Bushing, Electric. S. E. Westman. 2,422,379; June 17.
- Bushing, Enameled insulator. W. W. Higgins. 2,428,456; Oct. 7.
- Bushing, Resilient piston pin. W. B. Winslow. 2,422,327; June 17.
- Bushing, Self-locking. F. Klumpp, Jr. 2,424,757; July 29.
- Bushing, Strain-relief. F. Klumpp, Jr. 2,424,756; July 29.
- Bushing, Strain-relief. F. Klumpp, Jr. 2,424,758-9; July 29.
- Bushing, Transformer. E. C. Ilker and D. O. Schwen-nesen. 2,417,552; Mar. 18.
- Business machine. R. W. Pitman. 2,425,490; Aug. 12.
- Rust-contour pad. A. Cooper. 2,429,308; Oct. 21.
- Butadiene acrylonitrile-aliphatic vinyl ethinyl carbinol material, Synthetic rubberlike. C. J. Mighton. 2,424,182; July 15.
- Butadiene-alpha chlorocrotonate copolymer. J. R. Long. 2,432,480; Dec. 9.



- Butadiene and acetylenes from solution, Separating. R. A. Given. 2,429,126; Oct. 14.
- Butadiene by distraction distillation with nitroparaffin solvents, Purification of. D. Craig. 2,419,335; Apr. 22.
- Butadiene by method of dehydration, Production of. W. J. Hale and H. Miller. 2,420,477; May 13.
- Butadiene copolymers, Rubberlike. F. K. Schoenfeld. 2,422,371; June 17.
- Butadiene desorption method. R. A. Given. 2,419,350; Apr. 22.
- Butadiene emulsion polymerization in the presence of water soluble complex metal cyanides. M. A. Youker. 2,417,034; Mar. 4.
- Butadiene extraction. N. F. Black and L. E. Pirkle. 2,430,972; Nov. 18.
- Butadiene extraction. J. W. Packie and R. A. Given. 2,420,906; May 20.
- Butadiene extraction. J. K. Small and R. A. Given. 2,420,915; May 20.
- Butadiene, Manufacture of. W. J. Mattox. 2,414,962; Jan. 28.
- Butadiene-1,3 hydrocarbons, Polymerization of. C. F. Fryling. 2,416,440; Feb. 25.
- Butadiene-1,3 hydrocarbons, Polymerization of. C. F. Fryling. 2,430,562; Nov. 11.
- Butadiene polymer compositions containing phthalimidoalkyl alkanoates, Plasticized. P. F. Tryon. 2,425,288; Aug. 5.
- Butadiene, Polymerization. H. L. Johnson, H. G. Voelker, and A. P. Stuart. 2,431,403; Nov. 25.
- Butadiene, Producing. W. J. Hale and H. Miller. 2,426,450; Aug. 26.
- Butadiene, Production of. J. E. Bludworth and M. O. Robeson. 2,427,704; Sept. 23.
- Butadiene, Production of. P. S. Viles. 2,417,280; Mar. 11.
- Butadiene, Production of. C. C. Watson. 2,433,800; Dec. 30.
- Butadiene separation. K. H. Hachmuth. 2,415,006; Jan. 28.
- Butadiene stabilization. L. F. Hatch, D. E. Adelson, and B. O. Blackburn. 2,415,009; Jan. 28.
- Butadiene, styrene, and ethyl acrylate, Interpolymerizing. G. F. D'Alelio. 2,419,202; Apr. 22.
- Butadiene-styrene copolymer having dispersed therein paracoumarone resin and filler, Vulcanization of. T. A. Bulifant. 2,430,385; Nov. 4.
- Butadiene-styrene copolymer plasticized with a metallic drier and a ketone or aldehyde. C. J. Mighton and H. E. Schroeder. 2,427,063; Sept. 9.
- Butadiene styrene copolymer reinforced with calcium silicate, Producing. J. C. Westfall, D. S. Sears, and J. W. Martindale. 2,429,439; Oct. 21.
- Butadiene-styrene copolymer rubber, Reducing the curing rate. R. R. Sterrett. 2,429,080; Oct. 14.
- Butadiene-styrene copolymer, Vulcanization of. T. A. Bulifant. 2,427,942; Sept. 23.
- Butadiene, Use of magnesia catalysts in the production of. D. J. Butterbaugh and Le R. U. Spence. 2,423,681; July 8.
- Butadienes in the presence of a hexa-aryl ethane and products thereof, Polymerizing conjugated. D. Josefowitz. 2,420,750; May 20.
- Butane, Isomerization of normal. R. J. Patterson. 2,416,019; Feb. 18.
- Butchering apparatus. E. D. Davidson. 2,421,547; Oct. 7.
- Butene, Dehydrogenating. C. H. Holder. 2,428,624; Oct. 7.
- Butenes and propene, Copolymerization of. F. E. Frey. 2,427,954; Sept. 23.
- Butenes, n-butane, C-3 and lighter hydrocarbons by extractive distillation, Separation of. C. R. Wagner. 2,415,921; Feb. 18.
- Butenes to form butadiene, Dehydrogenating normal. C. E. Kleiber, D. L. Campbell, D. E. Stines, and C. C. Nelson. 2,414,816; Jan. 28.
- Butter, Dehydrated. J. L. Jakobsen. 2,418,645; Apr. 8.
- Button, Combination metal and plastic. E. D. Janes. 2,413,975; Jan. 7.
- Button, Detachable. G. C. Welter. 2,423,535; July 8.
- Button for surgical operations and use, Cannula. C. F. Schnee. 2,431,587; Nov. 25.
- Buttonhole attachment for sewing machines. J. Hickey. 2,432,992; Dec. 23.
- Buttonhole gauge. F. Contrastino. 2,429,015; Oct. 14.
- Button locked down siding. W. C. Bowman. 2,421,407; June 3.
- Button or block, Cable conveyor. C. R. Rogers. 2,433,324; Dec. 23.
- Button, Tufting. W. B. Mathewson. 2,421,280; May 27.
- Button, Tufting. K. P. Williams. 2,428,601; Oct. 7.
- Butylene dehydrogenation process. M. W. Mayer. 2,426,893; Sept. 2.
- Bypass for luminous tube signs. I. M. Matson. 2,423,197; July 1.
- C-acetylated compounds, Preparation of. J. A. Spence and E. F. Degering. 2,417,381; Mar. 11.
- CClF<sub>3</sub>, Preparing. W. S. Murray. 2,426,637; Sept. 2.
- CHF<sub>3</sub>, Preparing. W. S. Murray. 2,426,638; Sept. 2.
- Cab meter. T. Horn. 2,428,080; Sept. 30.
- Cabinet: See—
- Card index cabinet.
  - Dispensing cabinet.
  - Display cabinet.
  - Filing cabinet.
  - Home freezer cabinet.
  - Ice-cream cabinet.
  - Ice cream dispensing cabinet.
  - Metallic drawer cabinet.
  - Physiotherapy cabinet.
  - Refrigerator cabinet.
  - Refrigerated display cabinet.
  - Refrigerated soda fountain cabinet.
  - Refrigerator cabinet.
  - Service cabinet.
  - Sheet metal storage cabinet.
  - Shower cabinet.
  - Smoker's cabinet.
  - Spaced wall insulated refrigerator cabinet.
  - Suggestion cabinet.
- Cabinet and extensible table, Combined. J. D. McDowell. 2,429,362; Oct. 21.
- Cabinet arrangement for absorption type household air conditioning units. H. E. Hoover. 2,429,881; Oct. 28.
- Cabinet comprising drawer supporting and guiding structure. H. M. Reeves. 2,430,141; Nov. 4.
- Cabinet construction having means to restrict moisture in the walls of the cabinet, Refrigerator. W. E. Richard. 2,432,042; Dec. 2.
- Cabinet finishing tool. C. A. Hein. 2,429,550; Oct. 21.
- Cabinet for bathtubs, Shower. E. Aronheim. 2,424,537; July 29.
- Cabinet for dishwashing machines. L. A. Loeb. 2,428,573; Oct. 7.
- Cabinet for sound-reproducing devices. P. M. Gazlay. 2,426,928; Sept. 2.
- Cabinet having elevatable table top and racks. O. A. McKellar. 2,429,638; Oct. 28.
- Cabinet having inner shelving unit movable downwardly and operating means therefor. F. P. Murphy. 2,429,523; Oct. 21.
- Cabinet having interconnected closure and support for an ironer. L. Svensson. 2,420,508; May 13.
- Cabinet having means for supporting a horizontal closure in a vertical position. C. B. Shreve. 2,424,715; July 29.
- Cabinet shelf support. E. D. Drake. 2,427,767; Sept. 23.
- Cabinet structure, Dispensing. R. G. Birr. 2,425,915; Aug. 19.
- Cabinet structure, Towel. R. G. Birr. 2,425,916; Aug. 19.
- Cabinet with means for dispensing papers, Sanitary. A. K. MacKenzie. 2,421,342; May 27.
- Cabinet with selective cases, Refrigerated. J. A. Smith. 2,421,439; June 3.
- Cabinet with tiltable compartment, Filing. J. W. and G. N. Paxton, and I. R. Cornish. 2,420,010-11; May 6.
- Cable: See—
- Buoyant cable.
  - Buoyant electric cable.
  - Combination electrical and fluid conducting cable.
  - Electric cable.
  - Fire detecting cable.
  - Gas filled cable.
  - High-voltage cable.
  - Magnetic minesweeping electrode cable.
  - Reversed lay cable.
  - Segmental cable.
  - Welding cable.
- Cable and making same, Coaxial. A. Z. Mample. 2,420,712; May 20.
- Cable and manufacturing same, Ribbon. G. Deakin. 2,433,346; Dec. 30.
- Cable and sealing device. J. Rozoff. 2,426,845; Sept. 2.
- Cable clamp. J. F. Case. 2,426,859; Sept. 2.
- Cable clamp. A. P. Keiterleber. 2,424,829; July 29.
- Cable clamp. N. Tarnow. 2,419,426; Apr. 22.
- Cable connection, Automatically compensating. J. L. Aldred, Jr. 2,417,581; Mar. 18.
- Cable connector. W. I. Kelly. 2,414,106; Jan. 14.
- Cable cutting method and device. C. O. Davis, W. E. Lawson, and J. L. Ver Bryck. 2,415,814; Feb. 18.
- Cable device, Coaxial. A. C. Davis. 2,429,401; Oct. 21.
- Cable distributing unit, Underground. W. C. Hasselhorn and R. M. Schultz. 2,420,478; May 13.
- Cable for reinforcing pipe during bending operation. V. E. Hamilton, Jr. 2,425,800; Aug. 19.
- Cable for signal generators, Output. E. A. Tubbs. 2,428,001; Sept. 23.
- Cable-gripping mechanism. C. R. Konkle. 2,424,760; July 29.
- Cable hanger. J. P. Montgomery and F. H. Pierson. 2,419,364; Apr. 22.
- Cable hook. L. E. Turner. 2,429,433; Oct. 21.
- Cable joint and forming the same. A. J. Warner and A. Baldwin. 2,414,498; Jan. 21.
- Cable painting or liquid coating machine. W. H. Bell. 2,429,915; Oct. 28.
- Cable rack. A. J. Wayman. 2,424,008; July 15.
- Cable reel switch. W. W. Sloane. 2,415,916; Feb. 18.
- Cable securing device. A. Wikstrom. 2,431,154; Nov. 18.
- Cable serving device. G. N. Nickell. 2,432,121; Dec. 9.
- Cable splices, Wire-armored. J. J. Morrison. 2,429,889; Oct. 28.
- Cable stripper. C. S. Vaughan, Jr. 2,419,511; Apr. 22.
- Cable stripping device. F. J. Churnell. 2,429,611; Oct. 28.
- Cable supporting clamp. J. W. Wohlhieter. 2,426,479; Aug. 28.
- Cable system, Gas filled. A. F. Gambitta. 2,432,568; Dec. 16.
- Cable tension regulator. W. H. Clark. 2,423,483; July 8.
- Cable tension regulator. H. J. Knaggs and G. H. Hufferd. 2,417,504; Mar. 18.
- Cable tension regulator. V. A. Tauscher. 2,424,198; July 15.



- Cable terminals, Making. G. W. Aldeen. 2,427,176; Sept. 9.
- Cable unit and making the same, Electric. J. B. Miller and J. H. Simpson. 2,421,155; May 27.
- Cables, Producing sealed. G. M. Powell, 3rd., and J. E. Brister. 2,427,507; Sept. 16.
- Cadence suppression system for secrecy communication. A. V. Bedford. 2,423,546; July 8.
- Cadmium-lanthanum-borate glass. Kuah-Han Sun and T. E. Callar. 2,430,540; Nov. 11.
- Cadmium seleno-cyanide, Production of. L. F. Nerlinger. 2,419,027; Apr. 15.
- Cage, Press. P. C. Simon. 2,421,763; June 10.
- Cage, Roller bearing. C. Hendricks. 2,430,397; Nov. 4.
- Cake from earth bores, Removal of filter. D. C. Bond. 2,425,456; Aug. 12.
- Cake method, Fruit. W. H. Brooks. 2,421,112; May 27.
- Calcareous-silicious insulating units, Making. S. A. Abrahams, R. Lewon and A. M. Dinkfeld. 2,432,981; Dec. 23.
- Calcerous and siliceous materials, Recovering values from. H. S. Colton, R. W. Frischmuth, and R. L. Knowles. 2,430,863; Nov. 18.
- Calcium hypochlorite, Producing. E. C. Soule and H. L. Robson. 2,429,531; Oct. 21.
- Calcium hypochlorite, Treating wool scour water with. J. L. Campanella. 2,429,868; Oct. 28.
- Calcium phosphate, Stable iodized. H. Adler. 2,417,804; Mar. 25.
- Calcium sulfate, Production of. R. W. Sullivan. 2,413,799; Jan. 7.
- Calcium tartrate recovery process. R. A. Hales. 2,419,020; Apr. 15.
- Calculating device. J. S. Compton. 2,416,793; Mar. 4.
- Calculating device. C. L. Ludwig. 2,418,948; Apr. 15.
- Calculating device. R. L. Snyder, Jr., and J. A. Rajchman. 2,424,289; July 22.
- Calculating device, Phase. W. Lenzlinger. 2,420,751; May 20.
- Calculating instrument, Navigational. E. Hill. 2,418,933; Apr. 15.
- Calculating machine. A. Arnason. 2,431,906; Dec. 2.
- Calculating machine. J. M. Laiho. 2,430,574; Nov. 11.
- Calculating machine. H. L. Lambert. 2,428,084; Sept. 30.
- Calculating machine, Duplex. H. L. Lambert. 2,422,103; June 10.
- Calculating machine, Key-responsive. J. M. Laiho. 2,430,575; Nov. 11.
- Calculation checking device. H. P. Luhn. 2,425,549; Aug. 12.
- Calculator. I. Auerbach. 2,423,822; July 15.
- Calculator. C. Christen. 2,415,415; Feb. 11.
- Calculator. H. Etherington. 2,418,803; Apr. 8.
- Calculator and decimal point locator. A. F. Eckel. 2,426,601; Sept. 2.
- Calculator, Electro-mechanical. C. E. Smith. 2,418,238; Apr. 1.
- Calculator, Indian currency computing and recording. P. H. Williams. 2,433,679; Dec. 30.
- Calculator for structural members, Angle. J. T. Hogue. 2,421,882; June 10.
- Calculator for typewriters, Margin. B. H. Grief. 2,421,119; May 27.
- Calculator for vertical balancing, Weight. W. E. Crawford. 2,424,877; July 29.
- Calculator, Liquid flow. J. W. Feild. 2,422,663; June 24.
- Calculator, Relay design. W. Keister. 2,431,696; Dec. 2.
- Calculator, Slide rule. G. M. MacDonald. 2,426,362; Aug. 26.
- Calculator, Tax. J. N. M. Howells. 2,424,890; July 29.
- Calendar. C. P. Potter. Re. 22,839; Feb. 4.
- Calendar. C. F. Schnuck. 2,424,856; July 29.
- Calendar, Duplex friction roller operated endless web. N. D. Staley. 2,414,071; Jan. 7.
- Calendar reel drive. E. J. von der Heide. 2,414,572; Jan. 21.
- Calibration mechanism for self-balancing potentiometers. J. A. Caldwell and G. W. Barnes, Jr. 2,424,146; July 15.
- Caliper, Distance. B. Muller. 2,418,595; Apr. 8.
- Caliper, Watchmaker's. E. Scardaccone. 2,429,139; Oct. 14.
- Cam, Adjustable. T. T. Woodson. 2,429,084; Oct. 14.
- Cam adjusting and indicating mechanism. R. G. Allen. 2,413,902; Jan. 7.
- Cam and follower mechanism for straight knitting machines. J. E. Lynam. 2,426,036; Aug. 19.
- Cam assembly for screw machines. R. W. Bates. 2,431,159; Nov. 18.
- Cam engine. E. S. Hall. 2,417,487; Mar. 18.
- Cam for electric circuit controllers, Adjustable. H. A. Breeding. 2,428,195; Sept. 30.
- Cam generating machine. G. X. Johnston. 2,432,161; Dec. 9.
- Cam grinding apparatus. C. J. Green. 2,415,062; Jan. 28.
- Cam structure. J. E. Collins. 2,418,757; Apr. 8.
- Camber correction tool. H. Wochner. 2,431,291; Nov. 18.
- Camel. C. D. Dosker. 2,426,345; Aug. 26.
- Camera. L. Frankel. 2,426,823; Sept. 2.
- Camera. R. M. and L. L. Godfrey. 2,415,386; Feb. 4.
- Camera. A. W. Tondreau. 2,422,270; June 17.
- Camera and control, Photofluorographic. C. B. Land. 2,433,129; Dec. 23.
- Camera and light support. O. G. Carpenter, Sr. 2,418,067; Mar. 25.
- Camera, Cinematograph. O. Steiner. 2,422,635; June 17.
- Camera cone. I. W. Doyle. 2,429,051; Oct. 14.
- Camera, Course-recording. J. Rabinow. 2,420,339; May 13.
- Camera, Detective. J. Stoiber. 2,420,628; May 13.
- Camera, Document copying. J. K. Holbrook. 2,422,354; June 17.
- Camera, Electrically controlled. M. Schwartz and W. Castedello. 2,421,396; June 3.
- Camera film cutoff and storage device. C. Loeb. 2,420,040; May 6.
- Camera for obtaining stereoscopic effects, Method and. G. P. Williams. 2,413,808; Jan. 7.
- Camera for photographing meter readings and the like. L. M. Potts. 2,426,947; Sept. 2.
- Camera, High-speed. C. N. Hickman. 2,417,076; Mar. 11.
- Camera light protecting sleeve. P. Park. 2,420,719; May 20.
- Camera mounting. H. S. Pastureczak. 2,424,499; July 22.
- Camera mounting, Rotating. A. G. Nash. 2,415,563; Feb. 11.
- Camera, Recording. G. B. Finnegan, Jr., and H. N. Durham. 2,428,273; Sept. 30.
- Camera, Roll holding. C. W. Cramrine. 2,417,240; Mar. 11.
- Camera shutter. M. R. Hutchison, Jr. 2,422,018; June 10.
- Camera shutter system. G. Bucky. 2,422,077; June 10.
- Camera spring device. W. R. Galter. 2,419,715; Apr. 29.
- Camera, Stereoscopic. F. T. Sonne. 2,433,534; Dec. 30.
- Camera support. F. E. Etzel, Jr., and F. E. Etzel. 2,427,593; Sept. 16.
- Camera view and range finder. A. Simmon. 2,418,107-8; Mar. 25.
- Camera view finder. J. B. Contner. 2,419,706; Apr. 29.
- Camera view finder. A. E. Reeves. 2,417,125; Mar. 11.
- Camera with automatic iris diaphragm operation, Portrait. W. S. Kals. 2,424,176; July 15.
- Camera with copy and image centering means. A. H. Gaebel. 2,415,424; Feb. 11.
- Camera with movable film carrier, Photographic. A. Simmon. 2,418,992; Apr. 15.
- Camera, X-ray goniometer. D. McLachlan, Jr. 2,417,657; Mar. 18.
- Camp stove, Collapsible. T. R. Pope, Sr. 2,424,665; July 29.
- Can: See—
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|---------------|------------------------|
| Beverage can. | Gas engine safety cap. |
| Chimney cap.  | Paper powder can.      |
| Dump can.     | Sanitary garbage can.  |
- Can bodies, Producing. N. Geertsens. 2,430,010; Nov. 4.
- Can body maker. P. E. Pearson and R. M. Mero. 2,429,169; Oct. 14.
- Can body making machine. T. Begg. 2,429,982; Nov. 4.
- Can dumping mechanism. C. H. Abbott. 2,413,900; Jan. 7.
- Can feeding mechanism. H. L. Smith, Jr. 2,421,527; June 3.
- Can filling apparatus. J. Albertoli. 2,416,039; Feb. 18.
- Can filling apparatus, Automatic. I. Severson. 2,418,794; Apr. 8.
- Can filling machine. H. D. Ayars. 2,429,154; Oct. 14.
- Can filling machine. G. J. Olney. 2,424,842; July 29.
- Can opener. J. H. Solomon. 2,421,296; May 27.
- Can opener stop element. H. A. Berkman. 2,423,221; July 1.
- Can puncturing and spout forming device. E. A. Schigut. 2,420,402; May 13.
- Can puncturing spout. O. N. Wiswell. 2,421,589; June 3.
- Can sealing compound. H. W. Nagle and J. H. Haines. 2,427,618; Sept. 16.
- Can seaming head, Square. O. A. Schmitt. 2,432,815; Dec. 16.
- Can spout soldering machine. P. E. Pearson. 2,432,794; Dec. 16.
- Can unloading apparatus. J. Albertoli. 2,420,343; May 13.
- Can washing machine. W. H. Paulson. 2,432,584; Dec. 16.
- Cans, Method of and apparatus for flanging. J. Coyle. 2,432,658; Dec. 16.
- Cans, Salvaging metal. T. P. Keogh and H. A. Fink. 2,423,708; July 8.
- Candle tipping machine. E. F. Pinney. 2,415,369; Feb. 4.
- Candy preforming machine. L. Latini. 2,431,489; Nov. 25.
- Cane piler. B. C. Thomson. 2,427,313; Sept. 9.
- Canopy and making same, Parachute. M. Birdman. 2,429,385; Oct. 21.
- Cap: See—
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|--------------------------|-------------------------------------|
| Blasting cap.            | Protecting cap.                     |
| Bottle cap.              | Screw cap.                          |
| Bubble cap.              | Shampoo cap.                        |
| Cigarette lighting cap.  | Swimming cap.                       |
| Electric blasting cap.   | Tank cap.                           |
| Filler cap.              | Test cap.                           |
| Liquid sealed pipe cap.  | Tire inflation indicator valve cap. |
| Lubricating fitting cap. | Uniform cap.                        |
| Nurse's cap.             |                                     |
- Cap. J. L. Sewell. 2,420,569; May 13.
- Cap. A. H. Warth and E. Lidard. 2,419,304; Apr. 22.
- Cap and remover therefor, Bottle. G. H. Hutaff, Jr. 2,426,101; Aug. 19.



- Cap and scarf, Combination. T. and L. E. Lehman. 2,420,378; May 13.
- Cap and shield, Combined. E. F. Moore. 2,424,624; July 29.
- Cap applying implement. J. Marsh and J. P. Bly. 2,415,896; Feb. 18.
- Cap feeder. F. W. Krueger. 2,417,938; Mar. 25.
- Cap for containers, Sealing. A. B. Walters. 2,430,967; Nov. 18.
- Cap for decanter units of coffee makers, Pressure. P. L. MacManus. 2,432,323; Dec. 9.
- Cap for gasoline tank filler pipe. F. Budreck and B. Jelinek. 2,431,458; Nov. 25.
- Cap for glass bottles. G. H. Hutauff, Jr. 2,426,102; Aug. 19.
- Cap for tube fittings, Closure. E. C. Hartley. 2,416,829; Mar. 4.
- Cap for wear. E. P. Marder and W. N. Green. 2,417,986; Mar. 25.
- Cap frame. M. J. Ford. 2,418,764; Apr. 8.
- Cap remover, Pivoted-jaw screw. G. F. Hoffman. 2,430,638; Nov. 11.
- Cap removing device, Bottle. R. R. Coley. 2,416,087; Feb. 18.
- Cap removing socket wrench. H. J. Halm. 2,423,145; July 1.
- Cap spinning traveler. E. K. Bauer. 2,423,678; July 8.
- Cap stay. S. Springer. 2,428,639; Oct. 7.
- Capper, Bottle. J. T. Shanahan. 2,430,651; Nov. 11.
- Caps and like articles, Method and apparatus for forming threaded. A. F. Stagmeier. 2,429,376; Oct. 21.
- Caps to containers, Device and method for applying thermoplastic. J. L. Golding. 2,431,114; Nov. 18.
- Capacitor building machine. G. J. Kennedy. 2,416,101; Feb. 18.
- Capacitor, Electric. B. B. Minnium. 2,430,433; Nov. 4.
- Capacitor, Series. R. E. Marbury. 2,428,576; Oct. 7.
- Capacitor, Variable. L. H. Van Billard. 2,426,905; Sept. 2.
- Capillary electrometer apparatus. W. H. Bussey. 2,431,367; Nov. 25.
- Capillary leak, Adjustable. A. O. C. Nier, E. P. Ney, and M. G. Inghram. 2,422,921; June 24.
- Capsulating machine. R. P. Scherer. 2,431,141; Nov. 18.
- Capsules and the like, Cleaning. S. Blackman. 2,425,984; Aug. 19.
- Capsules, Method and apparatus for producing. R. W. Gunnell. 2,428,911; Oct. 14.
- Car: See—
- Convertible railway car.
  - End ice bunker car.
  - Foldable baby car.
  - Ingot mold car.
  - Mine car.
  - Railway tank car.
  - Self-righting dump car.
  - Variable gauge motor car.
- Car bodies, Constructing stub axle. H. H. Pancake and C. G. Smith. 2,417,779; Mar. 18.
- Car brake head. C. R. Busch. 2,419,312; Apr. 22.
- Car construction. F. Ditchfield. Re. 22,868; Apr. 15.
- Car construction. R. L. Edgar and C. H. Tipton. 2,414,726; Jan. 21.
- Car coupling means. V. Terry. 2,413,801; Jan. 7.
- Car diaphragm, Railway. J. A. Wendland. 2,419,044; Apr. 15.
- Car door. F. Ditchfield. 2,415,731; Feb. 11.
- Car end buffer. G. E. Dath. 2,431,376; Nov. 25.
- Car rerailer. C. H. Nordberg. 2,429,942; Oct. 28.
- Car squeeze. P. Nalbandian. 2,424,768; July 29.
- Car stop indicator. E. J. Larson. 2,414,820; Jan. 28.
- Cars with swinging half axles, Springing of motor. K. Wilfert and B. Barényi. 2,419,104; Apr. 15.
- Carbalkoxylation of phenylacetates. A. W. Weston and W. H. Hoffman. 2,418,865; Apr. 29.
- Carbamate plasticizers for natural and synthetic rubber. A. W. Campbell. 2,433,595; Dec. 30.
- Carbazole and anthracene, Recovering and purifying. H. Rodman, Jr. 2,429,969; May 6.
- Carbocyanines from alicyclicdoxy azoles. A. W. Anish and L. C. Hensley. 2,429,574; Oct. 21.
- Carbodiimide-cellulose products and making same. J. B. Rust. 2,415,043; Jan. 28.
- Carbohydrate derivatives, Forming. G. V. Caesar. 2,432,280; Dec. 9.
- Carbohydrate printing pastes containing diazonium salts with olefin carboxylic acid amides, Prevention of thinning of. R. H. Kienle and F. H. Adams. 2,430,430; Nov. 4.
- Carbohydrates and apparatus therefor, Sterilizing. E. H. Carnarius. 2,423,580; July 8.
- Carbohydrates to produce butanol and isopropanol, Fermenting. S. C. Beesch and D. A. Legg. 2,420,998; May 27.
- Carbohydrates to tartaric acid, Continuous oxidizing. R. A. Hales. 2,419,019; Apr. 15.
- Carbon bisulfide, Making. L. F. Marek. 2,424,894; July 29.
- Carbon black, Manufacture of high volatile. R. I. Bray, J. Gabry, and C. B. Wendell. 2,420,810; May 20.
- Carbon black pellets. G. H. Swart. 2,427,238; Sept. 9.
- Carbon black process and apparatus. J. C. Krejci. 2,419,565; Apr. 29.
- Carbon black product and producing the same. O. J. Brown, Jr. 2,415,072; Feb. 4.
- Carbon brushes, Impregnating. L. E. Moberly. 2,418,420; Apr. 1.
- Carbon contaminated catalysts, Regenerating. M. H. Arveson. 2,419,245; Apr. 22.
- Carbon disulfide process. C. M. Thacker. 2,428,727; Oct. 7.
- Carbon disulfide from a hydrocarbon liquid, Removal of. D. W. Parkes and I. A. M. Ford. 2,418,047; Mar. 25.
- Carbon monoxide oxidation catalyst, Making. J. G. Dely. 2,419,255; Apr. 22.
- Carbon paper pack. G. T. Buckley, Jr. 2,431,729; Dec. 2.
- Carbon pile voltage regulator. W. G. Neild. 2,427,805; Sept. 23.
- Carbon removal regenerative gas requirements, in catalysts reactivation. J. A. Guyer. 2,417,359; Mar. 11.
- Carbonaceous deposits, Removal of. F. A. Horsley. 2,419,076; Apr. 15.
- Carbonaceous material, Process and apparatus for the cracking of. M. Steinschlaeger. 2,423,527; July 8.
- Carbonate material and for other purposes, Method and furnace apparatus for calcining. G. E. Connolly. 2,421,542; June 3.
- Carbonating apparatus. P. H. Phillips. 2,420,795; May 20.
- Carbonator, Liquid. J. L. Hudson. 2,431,936; Dec. 2.
- Carboxyalkyl cellulose ether fibers and films of good wet strength. O. B. Hager and L. H. Bock. 2,420,949; May 20.
- Carboxy guanamines, Unsaturated. J. T. Thurston and D. E. Nagy. 2,427,316; Sept. 9.
- Carboxy polymethylene guanamines. J. T. Thurston. 2,427,315; Sept. 9.
- Carboxylic acids, Dehydrating. V. K. Kriebel and R. H. Smellie. 2,425,542; Aug. 12.
- Carbureting and fuel supply means for motor-driven vehicles. W. R. Kuzelka. 2,419,956; May 6.
- Carburetion, Method and apparatus for. A. Vang. 2,414,494; Jan. 21.
- Carburetor. R. Abell. 2,432,980; Dec. 23.
- Carburetor. P. F. Adair. 2,419,523; Apr. 29.
- Carburetor. J. M. Barr. 2,432,274; Dec. 9.
- Carburetor. H. A. Carlson and O. J. Eickmann. 2,417,734; Mar. 18.
- Carburetor. M. E. Chandler. 2,416,907; Mar. 4.
- Carburetor. L. De Marco. 2,430,806-7; Nov. 11.
- Carburetor. G. F. Embshoff. 2,419,679; Apr. 29.
- Carburetor. L. E. Oliver and R. Carson, Sr. 2,431,958; Dec. 2.
- Carburetor. E. R. Schneider. 2,422,751; June 24.
- Carburetor. R. W. Sutton and A. H. Winkler. 2,420,917; May 20.
- Carburetor. A. H. Winkler. 2,423,059; June 24.
- Carburetor degasser. H. A. Carlson. 2,415,336; Feb. 4.
- Carburetor, Dual. C. L. Martin. 2,421,800; June 10.
- Carburetor for airplane engines. J. E. Campbell. 2,427,834; Sept. 23.
- Carburetor for internal-combustion engines. M. Mallory. 2,415,435; Feb. 11.
- Carburetor, Injection type. T. A. Morris. 2,428,377; Oct. 7.
- Carburetor, Pressure. G. M. Holley, Jr. 2,420,079; May 6.
- Carburetor system, Dual. T. M. Ball and W. E. Zierer. 2,415,860; Feb. 18.
- Carburetor valve. P. F. Adair and L. E. Bogus. 2,414,577; Jan. 21.
- Carcass scraping machine. C. H. O. Timmerman. 2,432,459; Dec. 9.
- Carcasses, Treatment of. B. E. Williams. 2,430,849; Nov. 11.
- Card filing device, Rotary. E. E. Knittel. 2,418,357; Apr. 1.
- Card for sequence sorting. A. A. Rembold. 2,424,053; July 15.
- Card for telephones, Dialing. A. Muther. 2,430,530; Nov. 11.
- Card forming apparatus. O. Sandberg. 2,430,620; Nov. 11.
- Card, Greeting. G. B. Histed. 2,417,982; Mar. 25.
- Card, Greeting. G. J. and B. Klein. 2,415,501; Feb. 11.
- Card index. C. H. Fahlstedt. 2,423,645; July 8.
- Card index and tray, Rotary. K. H. Miller. 2,429,729; Oct. 28.
- Card index cabinet. C. F. Wolters. 2,423,919; July 15.
- Card, photograph, and other filing sheets, Visible. L. V. Hermon. 2,421,503; June 3.
- Card punch, Single hand operated. H. Gardner. 2,433,110; Dec. 23.
- Card punching machine. D. A. Nevin. 2,414,547; Jan. 21.
- Card punching machine, Key operated. L. M. Keefe. 2,419,781; Apr. 29.
- Card, Record. W. A. Ayres. 2,431,017; Nov. 18.
- Card table. V. E. Lamberson. 2,418,514; Apr. 8.
- Carding machine. P. Peschel. 2,415,757; Feb. 11.
- Carding machine. C. E. White and E. Clark. 2,428,255; Sept. 30.
- Carding machine attachment for controlling the web weight. A. P. Lewis and J. C. Manley. 2,426,312; Aug. 26.
- Cards, Sorting. H. Knauss. 2,415,891; Feb. 18.
- Cargo handling device. E. C. Seward. 2,416,352; Feb. 25.
- Cargo lash fastener. R. L. Meyer. 2,431,819; Dec. 2.
- Cargo moving device. J. McCollum. 2,420,001; May 6.
- Carriage and the like, Baby. G. H. S. Holmström. 2,419,023; Apr. 15.



- Carriage, Baby. A. Perontl. 2,422,254; June 17.  
 Carriage, Baby. C. Rizzuto. 2,418,665; Apr. 8.  
 Carriage, Broach. R. H. Liska. 2,421,793; June 10.  
 Carriage, Collapsible baby. S. and N. J. Kroll. 2,431,259; Nov. 18.  
 Carriage, Flat tire. J. W. Merriam. 2,414,383; Jan. 14.  
 Carriage, Foldable baby. G. Mochan. 2,421,388; June 3.  
 Carriage, Foldable basket. A. J. Smith and W. I. Evans. 2,429,034; Oct. 14.  
 Carriage for turret gun slot closures, Gun. C. M. Boyd. 2,423,636; July 8.  
 Carriage, Glass supporting. G. Z. Minton and L. V. Black. 2,423,249; July 1.  
 Carriage means for road vehicles. W. H. Lewis. 2,422,792; June 24.  
 Carriage shifting mechanism. H. T. Avery. 2,421,111; May 27.  
 Carriage, Steerable baby. R. J. Sarasin. 2,429,172; Oct. 14.  
 Carriage, Steering baby. H. F. Shaw. 2,424,714; July 29.  
 Carrier: See—  
   Article carrier. Handbag carrier.  
   Berry box carrier. Key carrier.  
   Bottle carrier. Log carrier.  
   Collapsible bottle carrier. Luggage carrier.  
   Collapsible one - wheeled carrier. Negative carrier.  
   Collapsible golf bag carrier. Pliable bottle carrier.  
   Collapsible wheeled carrier. Portable carrier.  
   Cotton picker's sack carrier. Rabbit carrier.  
   Dumping carrier. Receptacle carrier.  
   Endless cable mail carrier. Reciprocating load carrier.  
   Golf club carrier. Tandem carrier.  
   Yarn carrier.  
 Carrier. M. G. and O. J. Otis. 2,428,501; Oct. 7.  
 Carrier. R. P. Packard. 2,428,941; Oct. 14.  
 Carrier. G. C. Rush and H. Bailey. 2,424,852; July 29.  
 Carrier amplitude communication system, Controlled. D. R. Goddard. 2,425,614; Aug. 12.  
 Carrier and loader, Powered implement. C. R. Hoover. 2,427,968; Sept. 23.  
 Carrier attachment. F. W. Schwinn. 2,424,195; July 15.  
 Carrier carton, Bottle. W. H. Allen. 2,425,140; Aug. 5.  
 Carrier current protective system. H. W. Lensner and J. F. Chapman. 2,422,570; June 17.  
 Carrier for bottles and other articles. W. A. Ringler. 2,430,302; Nov. 4.  
 Carrier for bottled goods. J. W. O'Hare. 2,420,006; May 6.  
 Carrier for bottles and the like. M. E. Holy. 2,418,350; Apr. 1.  
 Carrier for bottles and the like. J. Ring. 2,425,564; Aug. 12.  
 Carrier for bottles and the like. W. A. Ringler. 2,433,676; Dec. 30.  
 Carrier for bottles or the like. L. Rhodes and M. Smith. 2,415,218; Feb. 4.  
 Carrier for cut flowers and the like. M. C. Whittington. 2,427,246; Sept. 9.  
 Carton for frozen foods, Sealable. W. A. Ringler. 2,425,642; Aug. 12.  
 Carrier for knitting machines, Yarn. A. Friedmann. 2,432,304; Dec. 9.  
 Carrier for merchandise. W. A. Ringler. 2,421,850; June 10.  
 Carrier for textile machines, Bobbin and weft. A. Morf. 2,419,415; Apr. 22.  
 Carrier frequency demodulator, Pulsed. C. W. Earp. 2,426,187; Aug. 26.  
 Carrier handle. S. C. Roberts. 2,430,142; Nov. 4.  
 Carrier or tray, Collapsible. C. H. Roumillat. 2,414,332; Jan. 14.  
 Carrier wave detector circuit. F. C. Everett. 2,422,087; June 10.  
 Carrying and disbursing case. G. F. Wagner. 2,415,664; Feb. 11.  
 Cart, Caddy. K. L. Morehouse. 2,415,392; Feb. 4.  
 Cart, Child's. J. E. Milburn. 2,420,088; May 6.  
 Cart, Collapsible shopping. M. Giordano. 2,421,751; June 10.  
 Cart, Foldable golf bag transporting. J. Battle. 2,417,727; Mar. 18.  
 Cart, Folding utility. S. H. Stottrup. 2,422,862; June 24.  
 Cart for molded blocks, Hand. E. C. Elsner. 2,424,442; July 22.  
 Cart, Garden. W. Stelzer. 2,433,246; Dec. 23.  
 Cart, Golf. B. S. Procter. 2,428,853; Oct. 14.  
 Cart, Log. A. Schlabach and E. A. Keim. 2,430,786; Nov. 11.  
 Cart, Log hoisting and hauling. W. M. Largen. 2,428,085; Sept. 30.  
 Cart, Logging. W. L. Bartholomew. 2,433,822; Dec. 30.  
 Cart, Shopping. B. Frazin. 2,421,322; May 27.  
 Carton. C. J. Coleman. 2,415,869; Feb. 18.  
 Carton. R. Guyer. 2,430,610; Nov. 11.  
 Carton and liner therefor, Cardboard. H. F. Waters. 2,432,052; Dec. 2.  
 Carton, Bottle carrying. J. L. Lyons, Jr. 2,432,481; Dec. 9.  
 Carton closure. R. Guyer. 2,428,845; Oct. 14.  
 Carton construction. J. F. Buffenbarger. 2,426,484; Aug. 26.  
 Carton, Dispensing. W. J. Wells. 2,419,182; Apr. 15.  
 Carton divider. F. C. Bowdoin and H. L. Medlock. 2,420,460; May 13.  
 Carton erecting apparatus. G. C. Nydegger. 2,426,115; Aug. 19.  
 Carton filling machine. D. D. Peebles and G. P. Hensley. 2,415,528; Feb. 11.  
 Carton folding mechanism. A. E. Gnoerk. 2,416,748; Mar. 4.  
 Carton for bottles, Shipping. A. A. Mayer. 2,423,332; July 1.  
 Carton for powdery material. G. M. Woodruff. 2,429,540; Oct. 21.  
 Carton, Hat. E. C. Johnson. 2,414,203; Jan. 14.  
 Carton having combined top closure and pouring spout. Paper. O. H. Hultin. 2,417,498; Mar. 18.  
 Carton, Hinged cover triangular. R. Van Rosen. 2,419,510; Apr. 22.  
 Carton, Merchandise. R. E. Fink. 2,421,748; June 10.  
 Carton provided with a cream chamber and a valve for controlling an opening between the milk chamber and the cream chamber. Milk. A. Read. 2,413,845; Jan. 7.  
 Carton, Reclosing. R. Guyer. 2,417,550; Mar. 18.  
 Carton sealing apparatus. D. Kirk. 2,425,064; Aug. 5.  
 Cartons by suction, Method and apparatus for sealing. R. M. Dunning. 2,419,991; May 6.  
 Cartons, Continuous forming flat-folded lined. H. F. Waters. 2,432,053; Dec. 2.  
 Cartons, Erecting and positioning. R. W. Von Sydow. 2,429,536; Oct. 21.  
 Cartons, Making lined. H. F. Waters. 2,423,804; July 8.  
 Cartridge. R. A. Abell. 2,415,803; Feb. 13.  
 Cartridge. M. Schlumberger. 2,419,371; Apr. 22.  
 Cartridge and accumulator therefor, Chemical. L. T. Merri-  
   rick. 2,419,845; Apr. 29.  
 Cartridge assembly, Equalizer valve. D. B. Gardiner. 2,430,811; Nov. 11.  
 Cartridge belt link. L. R. Ryan. 2,423,346; July 1.  
 Cartridge belt links, Making metallic. E. K. Norgren. 2,420,147; May 6.  
 Cartridge boxes, Package of. F. H. Dittmar. 2,421,486; June 3.  
 Cartridge-cylinder unit for hypodermic syringes. M. Lasersohn. 2,431,406; Nov. 25.  
 Cartridge feed belt for machine guns. J. A. Hendley. 2,422,898; June 24.  
 Cartridge feed system. J. L. Lochhead. 2,417,080; Mar. 11.  
 Cartridge feeding means for rifles, Bolt-actuated. E. Dehm. 2,422,532; June 17.  
 Cartridge feeding mechanism. H. W. Rundquist. 2,418,428; Apr. 1.  
 Cartridge feeding mechanism for repeating firearms. T. F. Horan. 2,422,301; June 17.  
 Cartridge, Film. B. C. Roehrl. 2,423,663; July 8.  
 Cartridge for moving picture cameras, Film. G. E. Lee. 2,423,562; July 8.  
 Cartridge-fuse receptacle with terminal clamping means. E. P. Smith and W. H. Utz. 2,414,422; Jan. 14.  
 Cartridge fuse, Renewable. O. W. Smith. 2,433,792; Dec. 30.  
 Cartridge handling and belt filling machine. J. H. Woodberry and F. W. Hoewischer. 2,433,010; Dec. 23.  
 Cartridge loader. G. F. Paldani. 2,426,898; Sept. 2.  
 Cartridge or vial, Medicament. S. D. Goldberg. 2,429,183; Oct. 14.  
 Cartridge, Propellant fuel. A. M. Cohan. 2,429,548; Oct. 21.  
 Cartridge unit, Explosive. L. B. Counterman. 2,425,176; Aug. 5.  
 Cartridges, Manufacture of heating. W. A. Caldwell and D. G. Ashcroft. 2,418,333; Apr. 1.  
 Case: See—  
   Beverage bottle case. Lipstick case.  
   Carrying and disbursing case. Merchandise display case.  
   case. One piece thermometer case.  
   Collapsible travel case. Open top refrigerated display case.  
   Combined brief and overnight case. Pocket case.  
   Display case. Refrigerated display case.  
   Engine shipping case. Shipping and display case.  
   Foldable-bottom collapsible egg case. Spectacle and eyeglass case.  
   Foldable fiberboard egg case. Spectacle case.  
   case. Toilet case.  
   Key case. Transfer gear case.  
   Leather key case. Vanity case.  
 Case and ash receiver, Combined cigarette. A. M. Nixon, Jr. 2,418,188; Apr. 1.  
 Case and lighter, Dispensing cigarette. R. M. Long. 2,419,409; Apr. 22.  
 Case having top access compartments, Refrigerated display. C. F. Moores. 2,428,717; Oct. 7.  
 Case humidifier, Display. F. Elkins. 2,432,736; Dec. 16.  
 Case or the like, Cigarette. L. K. Stupell. 2,429,495; Oct. 21.  
 Cases, Making cartridge. R. H. Wallace and A. W. Knudsen. 2,426,289; Aug. 26.  
 Casing and nozzle construction for rocket motors. C. L. Eksergian. 2,421,552; June 3.  
 Casing and tubing head assembly. A. J. Penick. 2,426,371; Aug. 26.  
 Casing centering device. F. M. Gist. 2,424,027; July 15.



- Casing, Dry battery. L. V. Grover. 2,431,116; Nov. 18.  
 Casing for electrical devices. J. A. Comstock. 2,413,953; Jan. 7.  
 Casing for piezoelectric crystals. W. E. Kuenstler. 2,416,876; Mar. 4.  
 Casing, Motor head lamp plastic. R. P. H. Hinds. 2,417,162; Mar. 11.  
 Casing, Snap-ring secured, divided motor. W. Hargreaves. 2,417,195; Mar. 11.  
 Casing with valve operating means for a cartridge with a dispensing valve, Dispensing. E. R. Lane. 2,418,036; Mar. 25.  
 Casings from sausage, Stripping. K. Wilcoxon. 2,424,346; July 22.  
 Casein by means of gyratory motion applied to an inclined screen, Manufacture of. E. J. Wendt. 2,415,268; Feb. 4.  
 Cash registering mechanism for issuing sales receipts. R. J. Harrington. 2,432,014; Dec. 2.  
 Cashew nut shell liquid, Treating. R. E. Kremers. 2,431,127; Nov. 18.  
 Cast polymerization of mixtures of diallyl phthalate and an acrylic ester. J. K. Magrane, A. R. Esterly, and R. E. Davies. 2,426,402; Aug. 26.  
 Cast refractory products. T. E. Field. 2,416,472; Feb. 25.  
 Caster. B. P. Graft. 2,425,675; Aug. 12.  
 Caster, Bell. L. E. Blazey. 2,426,664; Sept. 2.  
 Caster mounting. C. R. Nalle. 2,416,532; Feb. 25.  
 Casting and rapid analysis of alloys. G. M. Bouton and E. E. Schumacher. 2,425,725; Aug. 19.  
 Casting and trimming plastic castings. L. H. Morin. 2,428,174; Sept. 30.  
 Casting apparatus, Multiple-mold rotary. M. J. Dempsey and F. W. Reher. 2,433,032; Dec. 23.  
 Casting, Centrifugal. D. E. Breakefield and J. L. Martin. 2,420,298; May 13.  
 Casting machine. M. Hummel. 2,414,466; Jan. 21.  
 Casting machine, Centrifugally. H. J. Wook. 2,415,620; Feb. 11.  
 Casting machine, Pressure. B. L. Levinson. 2,418,649; Apr. 8.  
 Casting machine, Stereotype plate. O. C. Roesen and C. L. Ricards. 2,432,043; Dec. 2.  
 Casting rod. E. Camburn. 2,421,240; May 27.  
 Casting, Stereotype plate. C. A. Harless. 2,430,334; Nov. 4.  
 Castings, Automatically ejecting. L. H. Morin. 2,431,414; Nov. 25.  
 Castings on disposable cores, Forming. L. H. Morin. 2,424,047; July 15.  
 Castor oil, Dehydration of. W. T. Walton, C. A. Coffey, and O. E. Knapp. 2,429,380; Oct. 21.  
 Castor oil, Esterifying a catalytically dehydrated and heat-bodied. A. E. Rheineck and S. B. Crecelius. 2,415,969; Feb. 18.  
 Castor oil, Processing of. G. F. Coggins and J. F. Ahearn. 2,418,819; Apr. 15.  
 Castor oil products, Preparing modified dehydrated. D. S. Bolley. 2,414,712; Jan. 21.  
 Catalysis. G. R. Bond, Jr. 2,417,054; Mar. 11.  
 Catalysis. E. J. Houdry. 2,414,812; Jan. 28.  
 Catalyst, Alumina base dehydrogenation. W. A. Schulze and J. C. Hillyer. 2,431,427; Nov. 25.  
 Catalyst and dehydrogenation of hydrocarbons. P. W. Reynolds, A. W. C. Taylor and J. G. M. Brenner. 2,420,563; May 13.  
 Catalyst and its preparation, Supported silver. I. Bergsteinsson and H. de V. Finch. 2,424,085; July 15.  
 Catalyst chamber apparatus. L. G. Molique. 2,416,491; Feb. 25.  
 Catalyst chamber construction. J. A. Guyer and L. G. Molique. 2,431,803; Dec. 2.  
 Catalyst chamber insulation. L. G. Molique. 2,416,490; Feb. 25.  
 Catalyst chamber, Lining. C. E. Carter. 2,417,348; Mar. 11.  
 Catalyst, Cobalt amination. J. W. Teter. 2,429,855; Oct. 28.  
 Catalyst for the production of vinyl cyanide, Conditioning. C. R. Harris and W. W. De Atley. 2,423,186; July 1.  
 Catalyst from reaction product, Removal of. J. W. Latchum, Jr. 2,426,832; Sept. 2.  
 Catalyst masses, Increasing the usefulness of solid isomerization. N. F. Myers. 2,423,845; July 15.  
 Catalyst, Method and apparatus for regeneration of. M. H. Arveson. 2,431,630; Nov. 25.  
 Catalyst-oil ratio by use of a venturi, Controlling. D. L. Campbell. 2,424,147; July 15.  
 Catalyst regeneration and recovery, Powdered. V. Voorhees. 2,425,849; Aug. 19.  
 Catalyst, Regeneration of powdered. W. I. Thompson and D. L. Campbell. 2,417,275; Mar. 11.  
 Catalyst, Regeneration of spent. A. L. Foster. 2,416,049; Feb. 18.  
 Catalyst, Stripping spent. C. W. Tyson. 2,428,691; Oct. 7.  
 Catalyst, Supported silver. H. de V. Finch and I. Bergsteinsson. 2,424,083; July 15.  
 Catalyst system, Fibrous. A. H. Schutte. 2,431,143; Nov. 18.  
 Catalyst technique. M. H. Arveson. 2,416,729; Mar. 4.  
 Catalysts comprising supported chromium oxide, Preparation of. M. P. Matuszak. 2,418,270; Apr. 1.  
 Catalysts, Dehydrogenation. K. K. Kearby. 2,418,888-9; Apr. 15.  
 Catalysts for the polymerization of butadiene-1,3 hydrocarbons. W. D. Stewart. 2,416,461; Feb. 25.  
 Catalysts from oil having an inert gas thereabove, Settling. J. S. Palmer. 2,431,499; Nov. 25.  
 Catalysts, Pelleting of. W. G. Evans. 2,413,961; Jan. 7.  
 Catalysts, Polymerization. V. L. Folt and F. W. Shaver. 2,419,347; Apr. 22.  
 Catalysts, Preparing. K. C. Edson and F. E. Fisher. 2,419,343; Apr. 22.  
 Catalysts, Suppression of metal. J. A. Chenicek. 2,420,122; May 6.  
 Catalysts, Utilization of powdered. J. A. Hatton, D. L. Cleveland, and N. E. Peery. 2,430,015; Nov. 4.  
 Catalytic alkylation. A. A. O'Kelly, J. R. Meadow, and R. E. Woodward. 2,414,271; Jan. 14.  
 Catalytic alkylation of aromatic hydrocarbons by normal paraffins. A. P. Lien and B. H. Shoemaker. 2,430,516; Nov. 11.  
 Catalytic alkylation of aromatic hydrocarbons by paraffins. S. B. Becker. 2,433,020; Dec. 23.  
 Catalytic and thermal conversion of hydrocarbons, Plural stage. W. H. Barcus. 2,430,096; Nov. 4.  
 Catalytic contacting, Process and apparatus for. R. C. Guinness and J. F. Snuggs. 2,428,873; Oct. 14.  
 Catalytic conversion. T. P. Simpson, J. W. Payne, and J. A. Crowley, Jr. 2,419,507; Apr. 22.  
 Catalytic conversion and catalyst drying. E. A. Johnson. 2,424,467; July 22.  
 Catalytic conversion apparatus. J. Biegel. 2,419,528; Apr. 29.  
 Catalytic conversion of aromatic compounds. J. K. Dixon. 2,422,163; June 10.  
 Catalytic conversion of hydrocarbons. W. W. Gary. 2,432,745; Dec. 16.  
 Catalytic conversion process. L. S. Kassel. 2,425,098; Aug. 5.  
 Catalytic conversion process. E. E. Sensel and R. A. Beck. 2,414,276; Jan. 14.  
 Catalytic conversion system. J. E. Swearingen. 2,415,973; Feb. 18.  
 Catalytic conversions with finely divided catalysts, Effecting. N. E. Peery. 2,423,850; July 15.  
 Catalytic cracking of hydrocarbon oils. J. M. Brackenbury. 2,432,277; Dec. 9.  
 Catalytic cracking of hydrocarbon oils to produce gasoline. J. W. Teter. 2,429,854; Oct. 28.  
 Catalytic cracking of petroleum hydrocarbons. W. W. Gary and R. B. Secor. 2,432,746; Dec. 16.  
 Catalytic cracking process. J. P. Hamilton and A. C. Rubey. 2,426,869; Sept. 2.  
 Catalytic cracking process. C. L. Thomas. 2,427,820; Sept. 23.  
 Catalytic cracking process with suspended catalyst. W. W. Gary. 2,432,744; Dec. 16.  
 Catalytic dehydrogenation. F. T. Eggertsen and H. H. Voge. 2,414,585; Jan. 21.  
 Catalytic hydrocarbon conversion process and apparatus therefor. V. Voorhees. 2,433,798; Dec. 30.  
 Catalytic hydrogenation of aminoacetonitrile to ethylene diamine. W. F. Gresham. 2,429,876; Oct. 28.  
 Catalytic isomerization. W. R. Smith. 2,417,221; Mar. 11.  
 Catalytic isomerization process. J. M. Whiteley, Jr. and C. S. Lynch. 2,433,079; Dec. 23.  
 Catalytic operation, Continuous. J. W. Payne. 2,430,245; Nov. 4.  
 Catalytic photochemical oxidation of organic compounds, Controlled. F. F. Rust and W. E. Vaughan. 2,423,949; July 15.  
 Catalytic polymerization of olefins. V. Stapleton. 2,425,493; Aug. 12.  
 Catalytic process and apparatus. H. E. W. Burnside and H. J. Ogorzaly. 2,414,852; Jan. 28.  
 Catalytic process, Cyclic. L. W. T. Cummings. 2,433,345; Dec. 30.  
 Catalytic process for the production of butadiene and catalyst therefor. L. U. Spence and D. J. Butterbaugh. 2,423,951; July 15.  
 Catalytic producing aromatic compounds. J. K. Dixon. 2,422,164; June 10.  
 Catalytic reaction apparatus. E. Kropp. 2,433,670; Dec. 30.  
 Catalytic reaction between carbon monoxide and hydrogen, Effecting. M. M. Stewart, R. C. Garrett and E. E. Sensel. 2,433,072; Dec. 23.  
 Catalytic reactions. H. Z. Martin. 2,414,883; Jan. 28.  
 Catalytic reactions, Method and apparatus for. J. P. Rasor. 2,432,934; Dec. 16.  
 Catalytic reduction of organic chloro-nitro compounds. J. A. Robertson. 2,420,382; May 13.  
 Catalytic reforming process. E. C. Pitzer. 2,423,947; July 15.  
 Catalytic treatment of petroleum hydrocarbons. P. S. Danner and R. C. Mithoff. 2,433,603; Dec. 30.  
 Catalytic treatment of sulfur-bearing hydrocarbon distillates. R. M. Cole. 2,431,920; Dec. 2.  
 Catalytic vapor phase oxidation of nicotine to 3,2'-nicotryne. C. F. Woodward, C. O. Badgett, and P. G. Haines. 2,432,642; Dec. 16.  
 Catapult. L. J. Maxson and F. B. Gross. 2,413,723; Jan. 7.



- Catch. M. Ostrom. 2,414,662; Jan. 21.  
 Catcher, Sheep. A. M. Blackford, Jr. 2,428,734; Oct. 7.  
 Caterpillar tractor friction assembling and disassembling tool. F. H. Stark. 2,428,182; Sept. 30.  
 Cathode. J. E. Beggs. 2,416,566; Feb. 25.  
 Cathode. G. T. Rayfield. 2,420,014; May 6.  
 Cathode assembly. R. O'Larte and K. Speck. 2,431,137; Nov. 18.  
 Cathode assembly. R. O'Larte and K. Speck. 2,432,789; Dec. 16.  
 Cathode assembly for magnetrons. R. S. Buritz and N. T. Williams. 2,414,581; Jan. 21.  
 Cathode construction, Thermionic. W. W. Watrous, Jr. 2,424,293; July 22.  
 Cathode electric discharge device, Dispenser type. E. J. Lawton. 2,416,661; Feb. 25.  
 Cathode, Electrode emitting. E. A. Coomes. 2,422,469; June 17.  
 Cathode, Electron emissive. W. P. Toorks. 2,433,821; Dec. 30.  
 Cathode for electric discharge tubes. G. Schmidt. 2,428,042; Sept. 30.  
 Cathode for electron discharge devices. W. Widmaier. 2,426,255; Aug. 26.  
 Cathode mounting. E. C. Okress and D. E. Nelson. 2,414,605; Jan. 21.  
 Cathode ray apparatus. R. E. Moe. 2,414,323; Jan. 14.  
 Cathode-ray apparatus and controlling the ray. M. R. Miller and A. N. Ogden. 2,418,133; Apr. 1.  
 Cathode-ray device for indicating the axis of a symmetrical signal. J. F. Craib. 2,431,990; Dec. 2.  
 Cathode ray indicator. H. E. Rhea. 2,415,566; Feb. 11.  
 Cathode ray magnetic focusing device. P. T. Sproul. 2,418,487; Apr. 8.  
 Cathode-ray oscilloscope circuit. W. A. Depp. 2,416,290; Feb. 25.  
 Cathode-ray screen having contrasting colors and unlike rates of decay of luminescence. G. R. Fonda. 2,423,830; July 15.  
 Cathode-ray steam generator. F. M. Tompkins. 2,426,533; Aug. 26.  
 Cathode-ray system with bright and dark marker indications. D. E. Kenyon. 2,425,330; Aug. 12.  
 Cathode-ray target and manufacturing. H. W. Leverenz. 2,432,908; Dec. 16.  
 Cathode-ray tube. K. C. Augenstein and A. Rieth. 2,423,924; July 15.  
 Cathode-ray tube circuit. P. A. Jeanne. 2,416,320; Feb. 25.  
 Cathode-ray tube control circuit. R. J. Hardy. 2,426,208; Aug. 26.  
 Cathode ray tube modulator in a pulse multiplex transmitter. W. D. Houghton. 2,427,500; Sept. 16.  
 Cathode-ray tube protector. C. S. Szegho. 2,415,311; Feb. 4.  
 Cathode ray tube support. E. B. Cain. 2,428,928; Oct. 14.  
 Cathode-ray tube sweep circuit. P. K. Chatterjea and D. M. Ambrose. 2,433,342; Dec. 30.  
 Cathode-ray tube with spot intensity proportional to radial deflection. G. W. Nagel. 2,416,199-200; Feb. 18.  
 Cathode structure. C. A. Segerstrom. 2,421,039; May 27.  
 Cathode structure for electron discharge devices. J. W. Skehan and B. K. M. Magnusson. 2,422,142; June 10.  
 Cathodes, Making. W. W. Eitel and J. A. McCullough. 2,425,090; Aug. 5.  
 Caustic solutions for treating gasoline, Regeneration of spent. D. C. Bond. 2,425,414; Aug. 12.  
 Cavity in a body of mineral material, Thermally forming. B. H. Higgs. 2,426,688; Sept. 2.  
 Ceiling box holder. A. Yeschick. 2,429,443; Oct. 21.  
 Cell for the electrolysis of magnesium chloride fusions. R. B. MacMullin. 2,432,431; Dec. 9.  
 Cell, Liquid electrode electrolytic. C. N. Richardson. 2,428,584; Oct. 7.  
 Cell, Lubricating oil. R. B. Gray and J. C. De Weese. 2,419,016; Apr. 15.  
 Cell with magnesium electrode, Deferred action dry. H. E. Lawson. 2,428,850; Oct. 14.  
 Cells comprising one or more grids embedded in the blocking layer, Blocking layer. W. C. Van Geel. 2,428,400; Oct. 7.  
 Cells, Electrolytic. W. C. Gardiner. 2,419,832; Apr. 29.  
 Cells for pH measurements. G. A. Perley and J. B. Godshalk. 2,416,949; Mar. 4.  
 Cells, Series photoelectric. G. A. Veszi and P. Markus. 2,428,537; Oct. 7.  
 Cellular cellulose derivatives, Making. J. G. Williams. 2,418,211; Apr. 1.  
 Cellular products. L. E. Daly. 2,432,389; Dec. 9.  
 Cellulose acetate plasticized with an arylmorpholidophosphate. L. W. Georges. 2,418,224; Apr. 1.  
 Cellulose compound composition containing a preservative. H. Dreyfus. 2,432,517; Dec. 16.  
 Cellulose derivative and coating with same, Xanthated. L. Lilienfeld. 2,422,573; June 17.  
 Cellulose derivatives, Production of. J. W. Fisher. 2,423,883; July 15.  
 Cellulose, Dissolving. S. M. Edelstein. 2,419,341; Apr. 22.  
 Cellulose ester filaments, Production of crinkled. W. I. Taylor. 2,431,435; Nov. 25.  
 Cellulose ester plastics. R. M. Goepp, Jr. 2,430,926; Nov. 18.  
 Cellulose ester-polyester compositions and preparing them. W. O. Baker. 2,423,823; July 15.  
 Cellulose esters. G. W. Seymour and M. E. Martin. 2,432,341; Dec. 9.  
 Cellulose esters, Improving the clarity of. J. H. Sharp-house, P. R. Hawtin, J. Downing, and W. H. Groombridge. 2,414,563; Jan. 21.  
 Cellulose esters, Preparation of. C. I. Haney, M. E. Martin and A. J. Rosenthal. 2,427,403; Sept. 16.  
 Cellulose esters, Production of. A. D. Clark and W. F. Reichert. 2,426,982; Sept. 9.  
 Cellulose esters resistant to actinic rays, Rendering. W. Horback and W. D. Paist. 2,432,521; Dec. 16.  
 Cellulose esters, Ripening. C. I. Haney and M. E. Martin. 2,432,153; Dec. 9.  
 Cellulose ether plastic and a canteen made thereof. J. Prichard and D. Flitter. 2,422,747; June 24.  
 Cellulose ethers to textile, Application of. C. F. Goldthwait, H. O. Smith, and L. B. Barnes. 2,417,869; Mar. 25.  
 Cellulose fibers, Esterifying. A. Ruperti. 2,420,499; May 13.  
 Cellulose fibers, Impregnation of regenerated. G. S. Radford and I. S. Hurd. 2,415,564; Feb. 11.  
 Cellulose into sugar, Converting. E. I. Fulmer, J. W. Dunning, and R. H. Fash. 2,426,677; Sept. 2.  
 Cellulose sheets and making them. E. Czapek. Re. 22,950; Dec. 23.  
 Cellulose solution and method of making the same. F. C. Hewitt and C. R. Cayen. 2,416,998; Mar. 4.  
 Cellulose structure, Manufacture of regenerated. M. T. O'Shaughnessy, Jr. 2,418,660; Apr. 8.  
 Cellulosic esters, Dissolving. J. D. McCaleb and J. J. Reis, Jr. 2,421,897; June 10.  
 Cellulosic fibres, Treatment of. H. M. Buckwalter. 2,422,078; June 10.  
 Cellulosic material and producing same, Flame-resistant. L. W. Georges and C. Hamalainen. 2,428,843; Oct. 14.  
 Cellulosic material, Producing absorbent. D. M. Musser. 2,426,561; Aug. 26.  
 Cellulosic material, Purification of. F. Casciani. 2,424,797; July 29.  
 Cellulosic materials, Scouring. H. O. Kauffmann, R. L. McEwen, E. S. Shanley, and J. R. Hopkins. 2,433,370; Dec. 30.  
 Cellulosic materials with improved crease-resisting properties, Production of. J. Boulton. 2,416,151; Feb. 18.  
 Cellulosic sheets, Producing coated. G. Pitzl. 2,432,542; Dec. 16.  
 Cement and making, Retarded. N. C. Ludwig. 2,427,683; Sept. 23.  
 Cement composition. E. W. Scripture, Jr. 2,418,431; Apr. 1.  
 Cement composition and producing. L. H. Colvin. 2,428,785; Oct. 14.  
 Cement compositions. R. H. Grant. 2,433,450; Dec. 30.  
 Cement manufacture. F. A. Downes. 2,424,746; July 29.  
 Cement manufacture. K. Horn. 2,426,147; Aug. 19.  
 Cement modifier, High-temperature. R. V. Andes and N. C. Ludwig. 2,429,211; Oct. 21.  
 Cement powders and acidproof mortars. K. Diets. 2,425,976; Aug. 19.  
 Cement products, Manufacture of hydraulic. G. L. Easterberg and R. A. MacArthur. 2,422,344-5; June 17.  
 Cement retainer. M. C. Wilson and V. D. Davidson. 2,421,399; June 3.  
 Cemented carbide article, Making. G. F. Taylor. 2,422,636; June 17.  
 Cemented carbide cutting tool. T. Hollis, Jr. 2,414,811; Jan. 28.  
 Cements and their preparation, Refractory. R. Esnault-Pelterie. 2,423,231; July 1.  
 Center drill. O. Arndt. 2,415,329; Feb. 4.  
 Center finder for drill bits and the like. B. Licwinko. 2,427,290; Sept. 9.  
 Center for copying lathes. G. P. S. Cross. 2,415,465; Feb. 11.  
 Center punch, Combination. T. Fischer. 2,420,365; May 13.  
 Centerless grinding machine. C. W. Hopkins. 2,417,413; Mar. 18.  
 Centimeter wave apparatus. V. D. Landon. 2,427,107; Sept. 9.  
 Central tuyère for stokers. W. M. Schweickart. 2,427,329; Sept. 9.  
 Centrifugal apparatus for impregnating one material with another. E. G. Kochli. 2,427,101; Sept. 9.  
 Centrifugal casting apparatus. J. J. Nolan, Jr. 2,414,890; Jan. 28.  
 Centrifugal casting apparatus. G. A. Rubissov. 2,428,434; Oct. 7.  
 Centrifugal clutch. C. D. Ammon, R. M. Snyder, and G. Fitchie. 2,429,153; Oct. 14.  
 Centrifugal clutch. L. W. Rawson. 2,429,697; Oct. 28.  
 Centrifugal coupling. L. W. Rawson. 2,421,083; May 27.  
 Centrifugal machine. E. L. Miller. 2,421,709; June 3.  
 Centrifugal machine casing. G. F. Wislicenus. 2,430,382; Nov. 4.  
 Centrifugal operated switch. J. L. Moody. 2,421,213; May 27.  
 Centrifugal pump. F. B. Allen. 2,431,221; Nov. 18.  
 Centrifugal pump. A. J. Harlamoff. 2,418,258; Apr. 1.



- Centrifugal pump. L. G. Howe, E. P. Smith, and R. K. Annis. 2,422,415; June 17.
- Centrifugal pump. F. Miess. 2,419,905; Apr. 29.
- Centrifugal pump. I. M. Prokofieff. 2,420,401; May 13.
- Centrifugal pump. V. Schleyer. 2,427,307; Sept. 9.
- Centrifugal pump. J. B. Wade. 2,416,031; Feb. 18.
- Centrifugal pump. J. B. Whitted. 2,429,114; Oct. 14.
- Centrifugal separator. F. J. Madely. 2,433,774; Dec. 30.
- Centrifugal separator. V. Smely. 2,416,073; Feb. 18.
- Centrifugal separator and oscillating scraper. E. F. Small. 2,414,421; Jan. 14.
- Centrifugal switch. E. T. Spaller. 2,418,373; Apr. 1.
- Centrifugal switch. G. T. Wright. 2,416,973; Mar. 4.
- Centrifugally actuated members, Method and apparatus for testing. L. T. Meister. 2,421,036; May 27.
- Centrifugally expandable abrasive wheel. J. O. Schulte. 2,415,308; Feb. 4.
- Centrifuge device for thermometers. L. J. Hillenbrand. 2,424,166; July 15.
- Centrifuge for separating liquids from gases and heavy impurities. A. E. Flowers. 2,417,747; Mar. 18.
- Centrifuge for separating molten metals from slag. E. Hoefling. 2,415,210; Feb. 4.
- Centripetal-centrifugal pump. R. Blanchard. 2,429,978; Nov. 4.
- Ceramic articles, Molding. S. H. Stupakoff and R. E. Stark. 2,422,809; June 24.
- Ceramic articles, Producing. F. V. Wind and M. J. Raimondo. 2,431,629; Nov. 25.
- Ceramic body. C. R. Austin and E. J. Rogers. 2,423,958; July 15.
- Ceramic composition. K. I. Harvey. 2,426,395; Aug. 26.
- Ceramic composition for aircraft spark plugs. E. Wainer. 2,427,034; Sept. 9.
- Ceramic dielectric composition. E. Wainer. 2,420,692; May 20.
- Ceramic material. C. F. Schaefer. 2,419,290; Apr. 22.
- Ceramic molding press. G. L. Cherry and C. C. Veale. 2,415,462; Feb. 11.
- Ceramic products. L. Navias and R. L. Green. 2,424,111; July 15.
- Ceramics, Decoration of. E. R. Box and F. E. Kerridge. 2,433,259; Dec. 23.
- Ceramicware, Drying, preheating, burning, and cooling. F. C. Mackey. 2,418,650; Apr. 8.
- Cereal germs, Infrared treatment of. P. Naehner and M. T. Williams. 2,428,090; Sept. 30.
- Cereal particles, Coloring of. C. G. Harrel and R. O. Brown. 2,428,665; Oct. 7.
- Chain: See—
- Antiskid chain. Pivoted link chain.
  - Bracelet chain. Scouring chain.
  - Cutter chain. Tire chain.
  - Expandable chain. Tire cross chain.
  - Flexible chain. Traction chain.
  - Jewelry chain.
- Chain. A. E. Focke and G. G. Mize. 2,424,087; July 15.
- Chain. T. Kilbourn. 2,424,320; July 22.
- Chain. M. A. Lopes. 2,419,321; Apr. 22.
- Chain bushing and side plate construction. J. F. McCann. 2,431,702; Dec. 2.
- Chain construction. J. F. McCann. 2,431,764; Dec. 2.
- Chain drive. E. E. Wesselhoff. 2,426,960; Sept. 2.
- Chain for antiskid tire chains, Cross. J. O. Mulderick. 2,420,717; May 20.
- Chain for automobile tire chains, Cross. T. B. Allardice. 2,415,270; Feb. 4.
- Chain for trucks, Emergency tire. C. G. Lofgren and V. H. Salinas. 2,433,567; Dec. 30.
- Chain joint. W. M. Albrecht. 2,428,060; Sept. 30.
- Chain link. H. A. Delano. 2,421,186; May 27.
- Chain, Manufacture of solid-forged. H. St. Pierre. 2,426,066; Aug. 19.
- Chain post binder device. F. S. Schade. 2,432,590; Dec. 16.
- Chain saw filing rack. C. W. Johnson. 2,415,137; Feb. 4.
- Chain saw setting, jointing, and filing device. R. H. Wilson. 2,422,871; June 24.
- Chain shifting device for bicycles and the like. F. W. Schwinn. 2,431,513; Nov. 25.
- Chain welding apparatus. L. D. Morelle. 2,414,970; Jan. 28.
- Chain with V-type antiwhipping pintle, Silent type. D. B. Perry. 2,413,843; Jan. 7.
- Chain wrench. F. F. Powell. 2,420,682; May 20.
- Chains, Manufacture of ornamental. A. J. England. Re. 22,901; July 22.
- Chair: See—
- Adjustable folding chair. Knockdown baby chair.
  - Adjustable reclining chair. Laterally folding child's chair.
  - Baby chair. Lounge chair.
  - Convertible and demountable gymnastic chair. Nesting chair.
  - Foldable camping chair. Posture chair.
  - Folding pushchair or wheeled chair. Reclining chair.
  - Folding reclining chair. Reclining rocking chair.
  - Invalid chair. Theatre chair.
  - Chair. W. E. Janssen. 2,425,584; Aug. 19.
  - Chair. W. Overdick. 2,417,439; Mar. 18.
- Chair and table for body massaging and muscle manipulation, Combination. G. B. Hampton. 2,427,053; Sept. 9.
- Chair and the like, Dental. D. J. Binus. 2,426,336; Aug. 26.
- Chair and tie for reinforcing rods, High. B. F. Burner. 2,420,860; May 20.
- Chair and tie plate for scale models, Miniature rail. A. Hazen. 2,426,452; Aug. 26.
- Chair back, Adjustable. A. E. Jones. 2,421,702; June 3.
- Chair back adjusting means. J. White. 2,427,174; Sept. 9.
- Chair construction. B. Jufe. 2,415,889; Feb. 18.
- Chair structure, Metal. P. Fleischer. 2,426,676; Sept. 2.
- Chair supporting structure. E. C. Booth. 2,417,733; Mar. 18.
- Chair with brake, Invalid's. K. D. Hammack. 2,426,451; Aug. 26.
- Chalcoone derivatives and preparing same, Alkylated. C. W. Wilson. 2,425,291; Aug. 5.
- Chamber adjusting tool. F. Nielsen. 2,425,556; Aug. 12.
- Chamber, Combustion. B. Pinkel. 2,417,445; Mar. 18.
- Chamber for Diesel engines, Combustion. G. R. Ericson. 2,414,225; Jan. 14.
- Chamber for electron microscopes, Specimen. F. E. Runge and P. C. Smith. 2,423,158; July 1.
- Chamber structure for heat exchanger, Combustion. S. J. Budlane. 2,421,370; June 3.
- Chamber, Subliming. W. T. Badham. 2,417,900; Mar. 25.
- Chambers of ice molds, Charging gas-expansion. L. L. Mallard. 2,425,259; Aug. 5.
- Change-speed conversion unit. W. S. Smith and F. J. Walters. 2,419,797; Apr. 29.
- Changer for phonographs, Record. H. V. Alexandersson. 2,426,978; Sept. 9.
- Char revivification apparatus including means for reclaiming and reutilizing heat from the cooling section thereof. R. S. Kent. 2,430,056; Nov. 4.
- Charge forming device. M. E. Chandler. 2,416,906; Mar. 4.
- Charge forming device. F. C. Mock. 2,426,153; Aug. 19.
- Charge forming device. F. C. Mock. 2,426,741; Sept. 2.
- Charge forming device. E. O. Wirth. 2,420,925; May 20.
- Charger for jet pumps, Air. C. J. Bergh. 2,421,237; May 27.
- Charger for pumps and storage tanks, Valve and air. J. E. Piccardo. 2,416,345; Feb. 25.
- Charging system for networks, Nonlinear. H. Goldberg and E. F. De Mers. 2,418,875; Apr. 15.
- Chart, Tax withholding. C. A. Posson. 2,427,976; Sept. 23.
- Charts for weighing scales. H. K. Leonard. 2,420,639; May 13.
- Chassis construction, Vehicle. H. E. Page. 2,421,351; May 27.
- Chassis, Truck trailer. C. B. Fischbach. 2,417,640; Mar. 18.
- Check valve. L. H. Browne. 2,417,968; Mar. 25.
- Check valve. V. E. Gleasman. 2,429,578; Oct. 21.
- Check valve. J. P. Johnson. 2,419,318; Apr. 22.
- Check valve. M. Katcher. 2,430,427; Nov. 4.
- Check valve. G. L. Miller. 2,426,040; Aug. 19.
- Checkerboard. G. E. and L. M. Bennett. 2,418,287; Apr. 1.
- Checkers, Invasion. J. J. Janik. 2,420,482; May 13.
- Checkerwork for furnaces. J. E. MacDonald. 2,432,779; Dec. 16.
- Checking device for roller supported doors. H. B. Tobias. 2,423,129; July 1.
- Cheek rest for firearms. J. C. Garand. 2,432,519; Dec. 16.
- Cheese container. A. F. Tanner. 2,419,299; Apr. 22.
- Cheese curd, Packaging. L. H. Jones. 2,424,693; July 29.
- Cheese, Making. A. E. Flowers and A. E. Merget. 2,415,239; Feb. 4.
- Cheese, Manufacture of. W. Faehndrich. 2,423,300; July 1.
- Chemical compounds. W. W. Hudson. 2,433,123; Dec. 23.
- Chemical contact mass, production thereof, and producing oxygen therewith. F. R. Whaley and E. O. Brimm. 2,427,757; Sept. 23.
- Chemical dehumidifying method and means. R. B. P. Crawford. 2,433,741; Dec. 30.
- Chemical indicator. H. Fleischer. 2,416,619; Feb. 25.
- Chemical process and compounds therefrom. W. E. Hanford and J. Harmon. 2,418,832; Apr. 15.
- Chemical process and product. M. S. Raasch and C. W. Theobald. 2,418,850; Apr. 15.
- Chemical production of oxygen. E. O. Brimm. 2,427,706-9; Sept. 23.
- Chemical production of oxygen. L. G. Jenness. 2,421,381; June 3.
- Chemical pulp into viscose, Improving the processing of refined. P. H. Schlosser and K. R. Gray. 2,432,126-8; Dec. 9.
- Chemical pulp into viscose, Improving the processing of refined. P. H. Schlosser, K. R. Gray and L. S. Keyser. 2,432,129; Dec. 9.
- Chemical reactions, Conducting. J. J. Allinson. 2,429,980; Nov. 4.
- Chemical reactions in the presence of finely-divided solids, Carrying out. C. E. Jahnig. 2,420,542; May 13.
- Chemical treatment of oil well liquids for preventing scale formation. L. C. Case. 2,429,594; Oct. 28.
- Chemical treatment of oil wells for the prevention of corrosion and scale. L. C. Case. 2,429,593; Oct. 28.



- Chemicals from crude formic acid distillate, Production of useful. A. A. Reiter and F. L. Beman. 2,433,323; Dec. 23.
- Chemiluminescent compositions. H. T. Lacey, H. E. Millson, and F. H. Heiss. 2,420,286; May 6.
- Chenille, Preparation of. G. J. Underwood and F. E. Farrell. 2,429,434; Oct. 21.
- Chest and shoulder protector. S. Nordling. 2,420,091; May 6.
- Chevron packing ring. M. R. Buffington and E. G. Jegge. 2,420,929; May 20.
- Chick box. J. G. Huys. 2,417,302; Mar. 11.
- Chick feed container. J. L. Kwash. 2,426,696; Sept. 2.
- Chick feeder. A. A. Marshall. 2,430,234; Nov. 4.
- Chick-hatchery waste to recover protein-fat concentrates, Treating. W. D. McFarlane, and N. Nikolaiczuk. 2,418,311; Apr. 1.
- Children's behavior indicator. E. P. Shurick, Sr. 2,414,614; Jan. 21.
- Child's toilet seat. W. J. Dunn and R. R. Richolt. 2,415,237; Feb. 4.
- Child's vehicle. G. C. Breckner and E. F. Robinson. 2,426,432; Aug. 26.
- Child's vehicle. J. Remesch, H. Eyring, and P. Moyer. 2,426,642; Sept. 2.
- Child's vehicle. D. D. Roth. 2,414,244; Jan. 14.
- Chime system, Electric. J. S. Zuckerman. 2,431,787; Dec. 2.
- Chimney cap. F. B. Charroin. 2,425,458; Aug. 12.
- Chimney coping. M. Albaugh. 2,417,039; Mar. 11.
- Chipping apparatus. W. F. Allen. 2,421,231; May 27.
- Chisel. R. W. McClure. 2,422,202; June 17.
- Chloracetophenone, Purifying. W. M. Lofton, Jr. 2,414,418; Jan. 14.
- Chloracrolein, Production of. J. G. M. Bremner and D. G. Jones. 2,427,492; Sept. 16.
- Chloranil, Production of. F. N. Alquist, C. H. Groom, Jr., and F. H. Haney. 2,414,008; Jan. 7.
- Chloride catalyst, Preparation of a porous aluminum. A. L. Foster. 2,428,910; Oct. 14.
- Chlorinated anthraquinones, Preparing. V. Weinmayr. 2,417,027; Mar. 4.
- Chlorinated polyisobutylene-petroleum coke moulding compound. A. L. Tarr and G. W. Oxley. 2,427,077; Sept. 9.
- Chlorinated polythene, Manufacture of. J. R. Myles and P. J. Garner. 2,422,919; June 24.
- Chlorinated quinones, as fungicides, Derivatives of. E. C. Ladd and M. P. Harvey. 2,430,722; Nov. 11.
- Chlorinated quinones, Manufacture of. H. H. Fletcher. 2,422,089; June 10.
- Chlorinated quinones, Manufacture of. H. H. Fletcher. 2,422,229; June 17.
- Chlorinating apparatus. P. R. Dodd. 2,418,628; Apr. 8.
- Chlorination. A. M. Clifford and J. R. Long. 2,425,509; Aug. 12.
- Chlorination process. O. W. Cass and H. B. Copelin. 2,430,667; Nov. 11.
- Chlorine containing polymers, Stabilized. G. L. Dorough. 2,432,296; Dec. 9.
- Chlorine-containing resins, Stabilized. R. W. Quarles. 2,432,586; Dec. 16.
- Chlorine-containing rubber derivatives, Benefication of. H. E. Albert and R. J. Reid. 2,424,920; July 29.
- Chlorine derivatives of trimethyl acetonitrile. O. W. Cass. 2,425,029; Aug. 5.
- Chlorine from hydrocarbons, Removing organically combined. H. J. Hepp. 2,413,871; Jan. 7.
- Chlorine, Making. A. M. Thomsen. 2,415,152; Feb. 4.
- Chlorine manufacture. E. Gorin. 2,418,930; Apr. 15.
- Chlorite bleaching of wax and oil esters. E. Stossel and E. Zerner. 2,431,842; Dec. 2.
- Chloroacrylophenones and polymers. J. G. Lichty. 2,415,796; Feb. 11.
- Chloro cyanobutanes. J. G. Lichty. 2,425,432; Aug. 12.
- Chloro-methylene derivative of fatty acid amides. J. Pkl. 2,426,790; Sept. 2.
- Chloroprene, Polymerization of. P. O. Bare. 2,426,854; Sept. 2.
- Chock, Mechanical floor. C. Carter. 2,413,744; Jan. 7.
- Chock or safety block. T. L. Borgogno. 2,427,381; Sept. 16.
- Choke and throttle connection. R. G. Hennemann. 2,426,272; Aug. 26.
- Choke, Bottom hole. F. F. Bridwell and G. W. Morrison. 2,428,139; Sept. 30.
- Choke for gun barrels, Automatic variable. K. Whedon. 2,417,721; Mar. 18.
- Choke mechanism and choke valve, Automatic. C. H. Jorganson. Re. 22,840; Feb. 11.
- Choke or ballast and frame therefor. J. J. Galla. 2,431,867; Dec. 2.
- Chocking means. J. G. Binney. 2,419,110; Apr. 15.
- Chocolate articles, Manufacture of. B. M. Le Vangie. 2,425,431; Aug. 12.
- Choline-like compounds. K. C. Swan and N. G. White. 2,432,049; Dec. 2.
- Chopper, Blade. H. Stock. 2,418,958; Apr. 15.
- Chopper, Cotton. C. F. Callahan. 2,414,507; Jan. 21.
- Chopper, Feed. L. Frank. 2,422,005; June 10.
- Christmas tree holder. O. A. Friemoth. 2,432,233; Dec. 9.
- Christmas tree stand. J. Blauer. 2,421,140; May 27.
- Christmas tree stand. A. W. Gustafson. 2,424,818; July 29.
- Christmas tree support. J. M. Westfall. 2,430,840; Nov. 11.
- Chroman compounds, Producing. L. I. Smith and H. E. Ungnade. 2,421,811-12; June 10.
- Chromane, Production of. W. John. 2,422,625; June 17.
- Chromate, Producing. M. J. Udy. 2,416,550; Feb. 25.
- Chrome alloy steel from a charge containing chrome scrap, Manufacture of. C. R. Funk. 2,422,299; June 17.
- Chrome monazo complex. B. L. West and C. E. Lewis. 2,421,737; June 3.
- Chrome plated wear resisting surface. T. C. Jarrett and R. D. Guerke. 2,433,457; Dec. 30.
- Chromed dyes on nylon by steaming under pressure, Development of. T. Skeuse, Jr. 2,421,131; May 27.
- Chromite ore pigment. G. D. Patterson and C. K. Sloan. 2,416,064; Feb. 18.
- Chromium aldonate compositions and the preparation thereof. A. E. Chester and F. F. Reisinger. 2,428,356; Oct. 7.
- Chromium complex compounds. E. A. Robinson and R. M. Beach. 2,418,528; Apr. 8.
- Chromium complex of monazo pyrazolone. B. G. Carson. 2,421,315; May 27.
- Chromium complexes of 1-phenyl-5-methyl-3-pyrazolone azo compounds. A. W. Nies. 2,432,034; Dec. 2.
- Chromium compound. F. W. Hurd. 2,415,950; Feb. 18.
- Chromium compounds, Production of. A. R. Fraser. 2,420,532; May 13.
- Chromium compounds, Production of. M. J. Udy. 2,416,551; Feb. 25.
- Chromium compounds, Production of. M. J. Udy. 2,430,261; Nov. 4.
- Chromium hydroxide, Production of. T. Parsons. 2,431,075; Nov. 18.
- Chromium oxide catalyst and its preparation. M. P. Matuszak and G. H. Morey. 2,418,309; Apr. 1.
- Chromium plating. F. H. Beall. 2,415,724; Feb. 11.
- Chromium plating, Electroplating to produce fissure, Network. T. H. Webersinn and J. Hyner. 2,430,750; Nov. 11.
- Chronometer box securing support. E. W. Drescher. 2,433,509; Dec. 30.
- Chrysene, Recovery of. G. W. Curtis. 2,419,011; Apr. 15.
- Chuck. W. J. A. McKay and A. J. Koon. 2,421,281; May 27.
- Chuck. C. J. Oetzel. 2,429,524; Oct. 21.
- Chuck. M. Stischer. 2,428,688; Oct. 7.
- Chuck. W. A. Tiede. 2,421,226; May 27.
- Chuck. J. Zuponic. 2,432,604; Dec. 16.
- Chuck adjusting device. H. A. Hamberger. 2,423,312; July 1.
- Chuck, Air. C. H. Johnson. 2,422,785; June 24.
- Chuck and abrasive drill. H. V. Allison. 2,427,085; Sept. 9.
- Chuck and means for attaching tools thereto. D. Rosenblatt. 2,416,774; Mar. 4.
- Chuck, Centrifugal. E. B. Phillips and N. Berthoff. 2,431,961; Dec. 2.
- Chuck for crankshaft grinders. F. P. Healy. 2,429,685; Oct. 28.
- Chuck for frazing machines. E. E. Calhoun. 2,429,922; Oct. 28.
- Chuck for machine tools. C. D. P. Smallpeice. 2,426,376; Aug. 26.
- Chuck for nailing machines, Nail. M. E. Fernald. 2,429,263; Oct. 21.
- Chuck for pipe threading machines, Quick releasing nipple. F. L. Walker. 2,429,038; Oct. 14.
- Chuck, Gear. J. R. and R. P. Garrison. 2,417,409; Mar. 18.
- Chuck, Lathe. H. J. Duphily. 2,430,761; Nov. 11.
- Chuck, Nipple. J. J. Reynolds. 2,416,220; Feb. 18.
- Chuck, Power-operated. J. E. Lovely. 2,423,244; July 1.
- Chuck, Quick-change. C. E. Wyrlick. 2,421,174; May 27.
- Chuck, Self-centering. A. M. Stoner. 2,432,350; Dec. 9.
- Chuck, Special purpose. W. Massier. 2,428,375; Oct. 7.
- Chuck tool holder. E. J. Brisben. 2,425,988; Aug. 19.
- Chute actuating mechanism for concrete mixers. G. A. Fleischmann. 2,425,674; Aug. 12.
- Chute, Ammunition. H. M. Thomas and J. S. D'Amico. 2,428,594; Oct. 7.
- Chute and controlling mechanism, Gravity conveying. A. De Palma and P. Syracuse. 2,431,791; Dec. 2.
- Chute, Arc. W. M. Scott, Jr. 2,417,134; Mar. 11.
- Chute, Arc. W. M. Scott, Jr. 2,427,074; Sept. 9.
- Chute, Coin. V. H. Anderson. 2,430,320; Nov. 4.
- Chute, Coin. W. A. Tratsch. 2,421,857; June 10.
- Chute concentrator and the concentration practiced thereby, Helical. I. B. Humphreys. 2,431,559; Nov. 25.
- Chute concentrator, Helical. I. B. Humphreys. 2,431,560; Nov. 25.
- Chute, Flexible. H. E. Elliott. 2,419,315; Apr. 22.
- Chute for mail treating machines, Tape. G. S. Moore and J. T. Scheb. 2,415,562; Feb. 11.
- Chute for pickup balers, Loader. S. D. Russell. 2,441,892; Dec. 2.
- Chute for planters, Flexible. W. P. Oehler. 2,428,679; Oct. 7.
- Cigar machine. K. E. Granstedt. 2,427,854; Sept. 23.
- Cigarette box. W. S. Groom. 2,426,679; Sept. 2.
- Cigarette box. W. S. Groom. 2,429,682; Oct. 28.
- Cigarette box. B. Liebson. 2,427,218; Sept. 9.



- Cigarette dispenser. A. Campos. 2,417,631; Mar. 18.  
 Cigarette dispenser. H. H. Loonin. 2,426,890; Sept. 2.  
 Cigarette dispenser. B. Meyer. 2,427,149; Sept. 9.  
 Cigarette holder. P. C. Overmire. 2,429,167; Oct. 14.  
 Cigarette holder. R. E. Sadtler. 2,421,087; May 27.  
 Cigarette holder. E. A. Walters. 2,422,868; June 24.  
 Cigarette lighting cap. F. Witt. 2,422,277; June 17.  
 Cigarette machine. B. Burns. 2,430,491; Nov. 11.  
 Cigarette maker. A. R. Matteson and P. G. Hebner. 2,425,888; Aug. 19.  
 Cigarette maker. M. Warner. 2,421,669; June 3.  
 Cigarette making device. R. W. Snodgrass. 2,427,884; Sept. 23.  
 Cigarette making device, Home-style. J. H. Blanchard. 2,420,459; May 13.  
 Cigarette, Medicated. S. S. Frederickson. 2,418,296; Apr. 1.  
 Cigarette package. B. J. Tamarin. 2,415,117; Feb. 4.  
 Cigarette package holder. I. E. Cohn. 2,420,031; May 6.  
 Cigarette receptacle. J. J. Geller and C. E. Swanson. 2,422,478; June 17.  
 Cigarette rolling device. S. A. Getts, Jr. 2,427,957; Sept. 23.  
 Cigarette smoking pipe. E. L. Wilson. 2,426,542; Aug. 26.  
 Cigarettes, Making mouthpiece. G. Davidson. 2,423,554; July 8.  
 Ciphering apparatus. C. R. Doty. 2,425,518; Aug. 12.  
 Circuit: See  
   Amplifier circuit. Frequency divider and discriminator circuit.  
   Amplitude limiter circuit. Gyrocompass amplifier circuit.  
   Amplitude modulation reducing circuit. High-frequency circuit.  
   Arc lamp regulating circuit. High-frequency coupling circuit.  
   Arc welder control circuit. High-frequency spark circuit.  
   Automatic modulation control circuit. Impedance matching circuit.  
   Blanking circuit. Impulsing circuit.  
   Carrier wave detector circuit. Lamp circuit.  
   Cathode-ray oscilloscope circuit. Magneto magnetic circuit.  
   Cathode-ray tube circuit. Motor control circuit.  
   Cathode-ray tube control circuit. Multivibrator circuit.  
   Cathode-ray tube sweep circuit. Oscillator circuit.  
   Comparator. Oscillograph timing circuit.  
   Control circuit. Photoelectric inspection.  
   Control system and telemetering circuit. Photonic cell circuit.  
   Counter electromotive force feedback circuit. Potentiometer circuit.  
   Coupling circuit. Pulse forming circuit.  
   Deflecting circuit. Pulse generating circuit.  
   Deflection circuit. Radiator detector quenching circuit.  
   Delay circuit. Radio direction finding circuit.  
   Demodulator circuit. Reactance control circuit.  
   Differential voltage measuring circuit. Receiver circuit.  
   Discriminator circuit. Regulator circuit.  
   Diversity combined circuit. Selective electrical circuit.  
   Duplex control circuit. Selective transmitting, receiving, and oscillator circuit.  
   Electric control circuit. Sweep circuit.  
   Electric motor control circuit. Synchronizing signal separating circuit.  
   Electric selection control circuit. Telegraph trunk circuit.  
   Electric valve control circuit. Telephone substation circuit.  
   Electrical circuit. Thermionic gas-filled rectifier circuit.  
   Electrical control circuit. Timing circuit.  
   Electrical - frequency responsive relay circuit. Transformer circuit.  
   Electrical wave analyzing circuit. Transmission line bridge circuit.  
   Electromagnetic relay circuit. Transmission line circuit.  
   Electronic computing circuit. Transmitter control circuit.  
   Electronic keying circuit. Trigger circuit.  
   Frequency comparison and control circuit. Ultra high frequency coupling circuit.  
   Frequency counter circuit. Ultra high frequency electron discharge device circuit.  
   Frequency discriminator circuit. Ultra high frequency mixer circuit.  
   Vibration damping circuit.  
 Circuit and apparatus for portable electrical devices, Translating. D. H. Mitchell. 2,420,609; May 13.  
 Circuit arrangement for ratio meters. W. B. M. Clark. 2,414,190; Jan. 14.  
 Circuit arrangement for ultra-short waves, Push-pull. J. M. van Hofweegen and M. J. O. Strutt. 2,427,421; Sept. 9.  
 Circuit arrangement, Thermionic valve amplifier. G. S. P. Scantlebury. 2,428,295; Sept. 30.  
 Circuit breaker. B. P. Baker. 2,431,222; Nov. 18.  
 Circuit breaker. C. Bangert, Jr. 2,418,006; Mar. 25.  
 Circuit breaker. A. H. Baylis. 2,417,728; Mar. 18.  
 Circuit breaker. H. D. Dorfman and G. J. Freese. 2,419,125; Apr. 15.  
 Circuit breaker. G. J. Easley. 2,419,127; Apr. 15.  
 Circuit breaker. G. J. Easley. 2,420,872; May 20.  
 Circuit breaker. G. J. Freese. 2,416,169; Feb. 18.  
 Circuit breaker. H. S. Gano and G. J. Freese. 2,416,170; Feb. 18.  
 Circuit breaker. M. E. Horn, T. Lindstrom, and F. E. Florschütz. 2,414,526; Jan. 21.  
 Circuit breaker. J. G. Jackson and R. Mueller. 2,426,880; Sept. 2.  
 Circuit breaker. O. S. Jennings. 2,429,722; Oct. 28.  
 Circuit breaker. O. Jensen. 2,422,784; June 24.  
 Circuit breaker. E. W. Landmeier. 2,416,266; Feb. 18.  
 Circuit breaker. H. L. Peek. 2,422,562; June 17.  
 Circuit breaker. F. J. Pokorny. 2,422,799; June 24.  
 Circuit breaker. F. G. von Hoorn. 2,422,508; June 17.  
 Circuit breaker. L. S. Walle. 2,428,254; Sept. 30.  
 Circuit breaker. J. B. Whitted and H. Y. Fisher. 2,429,784; Oct. 28.  
 Circuit breaker. K. W. Wilckens. 2,427,998; Sept. 23.  
 Circuit breaker, Air blast. W. M. Scott, Jr. 2,422,805; June 24.  
 Circuit breaker and contact therefor. E. O. Oberdick. 2,424,626; July 29.  
 Circuit breaker contact. A. S. Caswell. 2,426,387; Aug. 26.  
 Circuit breaker, Electric. H. E. Cox and T. W. Wilcox. 2,427,195; Sept. 9.  
 Circuit breaker, Electric. B. M. H. P. Fernier. 2,430,008; Nov. 4.  
 Circuit breaker, Electric. C. H. Flurscheim. 2,419,446; Apr. 22.  
 Circuit breaker, Electric. S. R. Smith, Jr. 2,424,126; July 15.  
 Circuit breaker, Electric. M. B. Wood. 2,418,537; Apr. 8.  
 Circuit breaker, Emergency ignition. C. G. Wiatt. 2,414,912; Jan. 28.  
 Circuit breaker, Fluid pressure operated. B. P. Baker and H. J. Webb. 2,422,516; June 17.  
 Circuit breaker for direction indicators. L. Armstrong. 2,414,132; Jan. 14.  
 Circuit breaker, Gas blast. G. Brühlmann. 2,416,466; Feb. 25.  
 Circuit breaker, Gas blast. P. L. Taylor. 2,426,250; Aug. 26.  
 Circuit breaker, Gas blast. H. Thommen and A. Halm. 2,417,274; Mar. 11.  
 Circuit breaker, Oil. B. P. Baker and R. C. Dickinson. 2,419,106; Apr. 15.  
 Circuit breaker operating system. C. Thumim and A. C. Boisseau. 2,418,739; Apr. 8.  
 Circuit breaker, Pressure operated. O. von Mehren and B. P. Baker. 2,431,286; Nov. 18.  
 Circuit breaker, Shockproof. L. W. Dyer and H. D. Dorfman. 2,416,163; Feb. 18.  
 Circuit breaker, Thermal. S. S. Grady. 2,429,225; Oct. 21.  
 Circuit breaker, Thermal and magnetic trip. M. Bingenheimer. 2,425,983; Aug. 19.  
 Circuit breaker with blowing device. M. J. Gay. 2,429,311; Oct. 21.  
 Circuit, Carrier-shift signal control. R. S. Chapin. 2,421,054; May 27.  
 Circuit change for electrically actuated devices, Quick. C. H. Steuber and P. J. McCullough. 2,420,727; May 20.  
 Circuit closer. H. P. Detwiler. 2,415,086; Feb. 4.  
 Circuit closer, Float operated. A. E. Sheldon. 2,432,045; Dec. 2.  
 Circuit closer for knitting machines, Fabric contacting. M. Wachsman. 2,429,004; Oct. 14.  
 Circuit connector. H. A. Bakke. 2,429,448; Oct. 21.  
 Circuit control apparatus. E. H. Haug. 2,421,786; June 10.  
 Circuit control device. J. G. Juhasz. 2,414,470; Jan. 21.  
 Circuit control, Single-phase motor starter. R. T. Cornelius. 2,425,459; Aug. 12.  
 Circuit control system. J. H. Bretthauer and W. Cermak. 2,428,196; Sept. 30.  
 Circuit controller. J. P. Houck and D. H. Shallcross, Sr. 2,426,306; Aug. 26.  
 Circuit controller. W. E. Swenson and V. N. Albertson. 2,427,426; Sept. 16.  
 Circuit controller. J. M. Wallace and H. J. Crabbs. 2,432,955; Dec. 16.  
 Circuit controller, Electric. J. M. Tyrner. Re. 22,907; Aug. 12.  
 Circuit controller, Electrical. H. J. Murray. 2,429,069; Oct. 14.  
 Circuit controlling device. T. W. Buslawski. 2,419,819; Apr. 29.  
 Circuit controlling device. A. P. Charbonneau. 2,428,832; Oct. 14.  
 Circuit controlling device, Electrical. H. F. Cypser. 2,421,998; June 10.  
 Circuit controlling means. H. L. Bone. 2,420,065; May 6.  
 Circuit, Discriminator. D. D. Grieg. 2,428,204; Aug. 26.  
 Circuit distribution box. E. P. Smith and W. H. Utz. 2,414,423; Jan. 14.  
 Circuit for cathode-ray tubes, Modified sweep. W. H. Bliss. 2,428,926; Oct. 14.  
 Circuit for cathode ray tubes, Modified sweep. W. A. Miller and E. R. Shenk. 2,431,766; Dec. 2.  
 Circuit for counting electrical impulses. F. H. Bray and L. R. Brown. 2,421,005; May 27.



- Circuit for cross bar telephone systems, Marker. O. Myers. 2,416,710; Mar. 4.
- Circuit for electric discharge devices. E. Lemmers. 2,429,415; Oct. 21.
- Circuit for gaseous discharge tubes. I. R. Dosio. 2,417,742; Mar. 18.
- Circuit for hydraulic systems, Fluid operated control. J. A. Muller. 2,432,170; Dec. 9.
- Circuit for indicating ice formation, Electronic. W. H. Kliever and R. M. Franzel. 2,419,266; Apr. 22.
- Circuit for locking service observing teletypewriter during supervisory signal reception. T. A. Marshall. 2,424,244; July 22.
- Circuit for measuring minimum values of unidirectional voltage pulses. J. R. Boykin. 2,425,987; Aug. 19.
- Circuit for operating relays, Vacuum tube. M. G. Nicholson, Jr. 2,428,125; Sept. 30.
- Circuit for polarized compound electromagnet, Electric. O. S. Field. 2,419,258; Apr. 22.
- Circuit for radio locators, Comparator. W. R. Mercer. 2,419,025; Apr. 15.
- Circuit for radio receivers, Power reduction. G. M. Brown. 2,420,518; May 13.
- Circuit for signals below audibility, Indicator. H. J. Woll. 2,420,404; May 13.
- Circuit for sound recording systems, Noise reduction amplifier. A. Badmaieff. 2,419,001; Apr. 15.
- Circuit for synchronous motors, Stabilizing. H. L. Barney. 2,415,405; Feb. 11.
- Circuit for telephone ringing current and the like, Frequency determining. H. P. Boswau. 2,432,276; Dec. 9.
- Circuit for use in automatic telephone systems, Selector operating. G. T. Baker. 2,422,285; June 17.
- Circuit interrupter. H. J. Crabbs. Re. 22,853; Mar. 18.
- Circuit interrupter. J. M. Cumming. 2,419,123; Apr. 15.
- Circuit interrupter. C. L. Denault. 2,425,147; Aug. 5.
- Circuit interrupter. H. W. Graybill. 2,418,171; Apr. 1.
- Circuit interrupter. W. M. Leeds. 2,416,186; Feb. 18.
- Circuit interrupter. W. M. Leeds. 2,420,889; May 20.
- Circuit interrupter. W. M. Leeds. 2,422,569; June 17.
- Circuit interrupter. L. R. Ludwig, H. J. Webb, and B. P. Baker. 2,428,575; Oct. 7.
- Circuit interrupter. R. C. Van Sickle. 2,422,603; June 17.
- Circuit interrupter. R. C. Van Sickle, B. P. Baker, and E. H. Hall. 2,428,597; Oct. 7.
- Circuit interrupter. R. C. Van Sickle, R. E. Friedrich, and F. J. Fry. 2,424,343; July 22.
- Circuit interrupter. H. M. Wilcox and R. H. Leitzel. 2,428,482; Oct. 7.
- Circuit interrupter and control therefor. W. M. Scott, Jr. 2,426,243; Aug. 26.
- Circuit interrupter, Electric. G. L. Barcus and A. C. Boisseau. 2,419,434; Apr. 22.
- Circuit interrupter, Electric. R. M. Bennett. 2,418,690; Apr. 8.
- Circuit interrupter, Electric. R. S. Bennett. 2,421,236; May 27.
- Circuit interrupter, Electric. R. S. Bennett. 2,421,982; June 10.
- Circuit interrupter, Electric. J. D. Gayer, E. J. Frank, and A. C. Boisseau. 2,419,447; Apr. 22.
- Circuit interrupter, Electric. B. R. Hermann. 2,433,666; Dec. 30.
- Circuit interrupter, Electric. J. W. Seaman. 2,429,846; Oct. 28.
- Circuit interrupter, Fluid blast. W. M. Leeds. 2,416,185; Feb. 18.
- Circuit interrupter, Gas blast. E. H. Hall. 2,414,522; Jan. 21.
- Circuit interrupter, High-voltage. R. H. Earle and R. H. Amundson. 2,429,347; Oct. 21.
- Circuit interrupting oil. W. M. Leeds. 2,420,888; May 20.
- Circuit interrupting device. F. B. Adam, F. S. Green, and H. M. Stieglitz. 2,424,909; July 29.
- Circuit interrupting device. H. E. Strang and A. H. Powell. 2,421,658; June 3.
- Circuit interrupting device. E. A. Williams, Jr., and A. H. Powell. 2,429,860; Oct. 28.
- Circuit interrupting device with condensers. D. Sciaky. 2,416,669; Mar. 4.
- Circuit protection, Reverse current. F. T. Bailey. 2,424,298; July 22.
- Circuit railway traffic controlling apparatus and switch control, Coded track. J. J. Van Horn. 2,430,314; Nov. 4.
- Circuit tester, Flashlight type. L. Oboler. 2,430,824; Nov. 11.
- Circuit time control device. D. D. Clayton. 2,421,411; June 3.
- Circuit, Tunable high-frequency tank. W. V. Roberts and S. G. Frantz. 2,428,037; Sept. 30.
- Circuits, Amplifier. H. L. Mansford. 2,424,893; July 29.
- Circuits, Amplifier. B. D. H. Tellegen. 2,431,151; Nov. 18.
- Circuits, Angle modulation receiving. J. B. Atwood. 2,429,788; Oct. 28.
- Circuits, Branching. H. T. Friis. 2,419,557; Apr. 29.
- Circuits, Combined frequency modulation and amplitude modulation detector. W. R. Koch. 2,429,762; Oct. 28.
- Circuits, Compensated photoelectric photometer. M. H. Sweet. 2,420,058; May 6.
- Circuits comprising discharge tubes, Mixing. M. J. O. Strutt, A. van der Ziel, and G. H. P. Alma. 2,430,835; Nov. 11.
- Circuits, Direct-current motor supply. R. G. Clapp and C. E. Dolberg. 2,428,202; Sept. 30.
- Circuits, Electric. H. W. Lord. 2,424,104; July 15.
- Circuits, Electric control. E. F. W. Alexanderson and A. H. Mittag. 2,432,903; Dec. 2.
- Circuits, Electric control. C. A. Carrière. 2,421,991; June 10.
- Circuits, Electric motor control. W. P. Albert, R. C. Davis, R. H. Gumley, and W. H. T. Holden. 2,428,767; Oct. 14.
- Circuits, Electric motor speed control. P. Glass. 2,417,868; Mar. 25.
- Circuits, Electric valve. B. D. Bedford. 2,419,465; Apr. 22.
- Circuits, Electrical control. W. H. Bruns. 2,415,457; Feb. 11.
- Circuits, Electronic control. C. B. Stadum. 2,428,592; Oct. 7.
- Circuits, Electronic reactance. J. Plebanski. 2,422,257; June 17.
- Circuits, Feed-back. J. R. Banker. 2,423,362; July 1.
- Circuits for polyphase single pole circuit breakers, Automatic and manual reclosing control. H. M. Wilcox, J. E. Schrameck, and H. J. Webb. 2,425,168; Aug. 5.
- Circuits for sound recording galvanometers, Frequency modulation feed-back. A. Badmaieff. 2,423,285; July 1.
- Circuits, Frequency discriminator. M. G. Crosby. 2,428,264; Sept. 30.
- Circuits, Frequency discriminator. J. S. Le Grand and E. La Bossiere. 2,433,377; Dec. 30.
- Circuits, High-efficiency multivibrator. C. E. McClellan. 2,416,188; Feb. 18.
- Circuits, Impulse generator. A. M. Skellett. 2,416,355; Feb. 25.
- Circuits in an automatically directed message telegraph system, Message intercepting and relaying. H. D. Colman. 2,424,223; July 22.
- Circuits, Low-frequency amplifier. S. A. Dikstoal. 2,417,296; Mar. 11.
- Circuits, Multivibrator. G. W. Nagel and M. A. Schultz. 2,416,201; Feb. 18.
- Circuits, Photoelectric electron multiplier tube photometer. M. H. Sweet. 2,417,023; Mar. 4.
- Circuits, Pulse delay. M. I. Rothman and W. H. Neiman. 2,429,844; Oct. 28.
- Circuits, Pulse widening. A. Easton. 2,419,340; Apr. 22.
- Circuits, Rectifier protective. D. G. Little and C. K. Hooper. 2,431,261; Nov. 18.
- Circuits, Remote control. J. L. Moncrief. 2,423,464; July 8.
- Circuits, Servo mechanism. A. V. Bedford. 2,419,812; Apr. 29.
- Circuits, Stabilized magnetron. P. Glass. 2,432,748; Dec. 16.
- Circuits, Thermistor controlled relay. E. M. S. McWhirter, H. Wolfson, R. H. Dunn, and S. C. Shepard. 2,423,107; July 1.
- Circuits, Voltage control and stabilizing. A. H. Lord, Jr. 2,419,496; Apr. 22.
- Circuits, Voltage regulating. A. J. Irish and D. G. Lindsay. 2,416,922; Mar. 4.
- Circular cloth-cutter. B. Muller. 2,418,596; Apr. 8.
- Circular size gage. E. S. Cornell. 2,432,384; Dec. 9.
- Circulating and conditioning device, Air. W. R. Mobley. 2,417,010; Mar. 4.
- Circulating ball race propeller blade bearing. W. S. Hoover. 2,425,938; Aug. 19.
- Circulating device, Heat. M. J. Cooper. 2,420,123; May 6.
- Circulating system incorporating filtering means, Lubricant. C. C. S. LeClair. 2,425,700; Aug. 12.
- Circulation system for refrigerating apparatus, Air. P. E. Cary, L. F. Overholt, C. J. Johnson, and W. F. Borgerd. 2,416,153; Feb. 18.
- Circulator and purifier, Air. A. E. Aydt. 2,431,724; Dec. 2.
- Clamp: See—
- |   |  |
|---|--|
| Adjustable pipe clamp.                    | Ratchet operated expansion or compression clamp. |
| Cable clamp.                              |  |
| Cable supporting clamp.                   |  |
| Conveyer guard clamp.                     | Safety ground clamp.                             |
| Dead-end clamp.                           | Saw clamp.                                       |
| Electric fuse clamp.                      | Shoe clamp.                                      |
| Electrical conduit clamp.                 | Snap clamp.                                      |
| Electrode clamp.                          | Stonecutting clamp.                              |
| Film processing clamp.                    | Surgical bone clamp.                             |
| Fire nozzle control clamp.                | Torsionally operable plate clamp.                |
| Ground clamp.                             |  |
| Insulator supported adjustable bus clamp. | Trestle clamp.                                   |
| Line clamp.                               | Tube clamp.                                      |
| Parallel screw clamp.                     | Wiener roasting clamp.                           |
| Pipe clamp.                               | Wood turning lathe clamp.                        |
| Power line tapping clamp.                 | Work clamp.                                      |
| Railhead clamp.                           |  |
- Clamp. M. H. Baker and J. F. Blackburn. 2,421,178; May 27.
- Clamp. L. G. Hobart. 2,430,677; Nov. 11.
- Clamp. C. T. Torresen. 2,421,443; June 3.



- Clamp and sealing device, Cable. R. E. Thoren. 2,424,067; July 15.
- Clamp for cables and the like. A. M. Bruce. 2,419,761; Apr. 29.
- Clamp for demountable freight compartments, Toggle. A. J. Higgins. 2,427,603; Sept. 16.
- Clamp for gauge housings. R. Stover. 2,425,444; Aug. 12.
- Clamp for stretching presses. P. E. Flowers. 2,417,478; Mar. 18.
- Clamp for stretching wire, Wire. E. H. Lowery. 2,425,548; Aug. 12.
- Clamp structure. H. F. Franklin. 2,426,498; Aug. 26.
- Clamp type connector. A. VanRyan. 2,432,635; Dec. 16.
- Clamping and burning machine for storage battery cell groups. W. C. Sargent. 2,430,188; Nov. 4.
- Clamping device. W. S. Fletcher. 2,425,033; Aug. 5.
- Clamping device. R. J. Millette. 2,428,631; Oct. 7.
- Clamping device. J. Muise. 2,424,940; July 29.
- Clamping device for drill presses and the like. M. Wetzler. 2,430,900; Nov. 18.
- Clamping device for tool standards. A. E. Rutter. 2,430,434; Nov. 4.
- Clamping device, Sheet. F. W. Storck and P. T. Trueman. 2,417,572; Mar. 18.
- Clamping means. C. A. G. Pritchard. 2,422,039; June 10.
- Clamping means for mirror, devices and the like. F. Zeiler. 2,419,306; Apr. 22.
- Clamping mechanism for printing machines, Plate. W. F. Huck. 2,424,170; July 15.
- Clamping member for tipless cord connectors. E. S. McLarn. 2,419,652; Apr. 29.
- Clamping tool. A. Gagestein. 2,427,353; Sept. 16.
- Clamping unit, Work. N. Eldrup. 2,428,111; Sept. 30.
- Clarifier, Head and nasal. G. W. Oakes. 2,426,281; Aug. 26.
- Clarifier, Sewage. H. T. Jeffery. 2,417,688; Mar. 18.
- Clasp brake. C. E. Tack and W. A. Helsten. 2,418,057; Mar. 25.
- Clasp for plastic cases. W. B. Crane. 2,418,578; Apr. 8.
- Clasp for Venetian blinds, Slat. C. V. Newbill. 2,421,160; May 27.
- Clasp for wrist watch bands, Foldable. E. Weber. 2,429,950; Oct. 28.
- Clasp, Hair curling. P. Casazza, Sr. 2,426,258; Aug. 26.
- Clasp, Sliding jaw supporting. H. P. Botts. 2,416,150; Feb. 18.
- Classifier, Plural stage hydraulic. W. H. Coghill and G. D. Coe. 2,418,821; Apr. 15.
- Classifier, Spiral conveyor. T. A. Dickson. 2,428,789; Oct. 14.
- Claw assembly for milking machines. F. A. Gessler. 2,425,873; Aug. 19.
- Clay, Ammoniating an acid-treated. W. W. Gary. 2,430,289; Nov. 4.
- Clay pellets, Producing catalytic. W. W. Gary. 2,423,309; July 1.
- Cleaner: *See*—
- Air cleaner. Pipe cleaner.
  - Blackboard cleaner. Seed cleaner.
  - Convertible vacuum cleaner. Suction cleaner.
  - Cotton cleaner. Trap cleaner.
  - Drainpipe cleaner. Vacuum cleaner.
  - Lint cotton cleaner. Wall cleaner.
  - Oil cleaner. Well screen and perforation cleaner.
  - Photographic record cleaner. Window cleaner.
  - Pipe bowl cleaner. Windshield cleaner.
- Cleaner and polisher, Bowling ball. A. H. Tholen. 2,420,988; May 20.
- Cleaner consisting of gaseous suspension and sifting means, Peanut. H. M. C. F., and W. M. Carter. 2,429,343; Oct. 21.
- Cleaner for winnowing and screening grain, Centrifugal. A. F. Pingsen and S. J. Slotsky. 2,426,946; Sept. 2.
- Cleaner or the like, Gun. A. O. Dew, Jr. 2,430,164; Nov. 4.
- Cleaning and finishing device, Attritive. G. C. H. Perkins. 2,415,844; Feb. 18.
- Cleaning and pickling of metals. W. H. Hill. 2,425,320; Aug. 12.
- Cleaning and preserving composition. G. P. Beach. 2,423,137; July 1.
- Cleaning and washing machine. I. P. Denysen and R. W. Stanley. 2,417,241; Mar. 11.
- Cleaning apparatus. I. O. Wallberg. 2,431,354; Nov. 25.
- Cleaning apparatus, Convertible pneumatic. C. H. Taylor. 2,416,417-18; Feb. 25.
- Cleaning composition for removing sludge from internal-combustion engines. G. M. Skinner. 2,418,908-9; Apr. 15.
- Cleaning composition for removing sludge from internal-combustion engines. G. M. Skinner. 2,431,776; Dec. 2.
- Cleaning device and adaptor means therefor. E. C. Morris. 2,428,919; Oct. 14.
- Cleaning device for chimneys or the like. F. H. Johnson, Jr. 2,430,512; Nov. 11.
- Cleaning device for spinning machines and the like, Suction. M. F. Thoma. 2,425,576; Aug. 12.
- Cleaning device, Magnetic. C. W. V. Davis. 2,415,730; Feb. 11.
- Cleaning machine. C. Hirsch. 2,418,934; Apr. 15.
- Cleaning machine. C. R. Moser. 2,414,971; Jan. 28.
- Cleaning machine, Garment. J. L. Boulade. 2,427,189; Sept. 9.
- Cleaning means, Duct interior. R. F. Therrien. 2,431,089; Nov. 18.
- Cleaning means for filters, Automatic. L. E. La Guardia. 2,422,735; June 24.
- Cleaning method and material therefor. F. R. Perry. 2,421,806; June 10.
- Cleaning process, Electrolytic. R. W. Kingerley, Jr. 2,420,602; May 13.
- Cleaning, stripping, and polishing metal surfaces. T. E. Burkhardt. 2,428,141; Sept. 30.
- Cleaning unit for power meat cutters. V. G. Biro. 2,423,363; July 1.
- Cleansing composition. E. J. Moran. 2,428,317; Sept. 30.
- Clearence regulator. O. M. Burkhardt. 2,418,110; Apr. 1.
- Cleat for holding the electric cord on the handle of an electric carpet sweeper. F. W. McKee. 2,427,801; Sept. 23.
- Cleavage of glycols, Catalytic. H. D. Finch and S. A. Ballard. 2,421,554; June 3.
- Clevis construction. R. L. Mullaney. 2,422,844; June 24.
- Clip: *See*—
- Adjustable wire or conduit clip. Fishhook retaining clip.
  - Article clamping clip. Fuse terminal clip.
  - Automatic blade clip. Jewelry clip.
  - Bulkhead clip. Reinforced contact clip.
  - Conduit-supported wire clip. Roofing clip.
  - Conduit supporting clip. Self-locking clip.
  - Electrical terminal clip. Snap clip.
  - Film clip. Spring clip.
  - Clip. O. C. Eckel. 2,427,392; Sept. 16.
  - Clip. J. Seiler. 2,431,084; Nov. 18.
  - Clip and earring combined. V. Martin. 2,416,588; Feb. 25.
  - Clip board. C. E. Merritt. 2,417,879; Mar. 25.
  - Clip construction. H. A. Bauer, F. C. Dell, and J. T. Krajniak. 2,418,218; Apr. 1.
  - Clip for billfold assemblies, Loose leaf-retaining. R. M. Schupbach and S. H. Kohen. 2,419,092; Apr. 15.
  - Clip for electric battery terminals and the like, Jointing. D. J. Viljoen. 2,431,215; Nov. 18.
  - Clip for flexible tubes. E. Longden. 2,423,195; July 1.
  - Clip for holding detonators in blasting cartridges. F. H. Rolfes. 2,423,255; July 1.
  - Clip for multiple conduit supports. E. M. Morehouse. 2,413,772; Jan. 7.
  - Clip for offset printing rollers, Bearing. L. W. Mitchell. 2,431,069; Nov. 18.
  - Clip for securing conduits, wiring, and the like to structural parts, Spring. E. V. Hall. 2,419,317; Apr. 22.
  - Clip for sheet metal partitions. W. Pfeifer, Jr. 2,426,237; Aug. 26.
  - Clip for Venetian blind slats. J. W. Peterson and J. E. Cooper. 2,433,529; Dec. 30.
  - Clip lock inclined baby bottle holder. A. Marino. 2,421,458; June 3.
  - Clip with safety lock, Harness. E. M. Morehouse. 2,417,261; Mar. 11.
  - Clips, Making. O. C. Eckel. 2,427,393; Sept. 16.
  - Clipper, Hair. L. E. Emard. 2,429,750; Oct. 28.
  - Clock. F. Q. Rast. 2,424,119; July 15.
  - Clock and switch, Alarm. D. L. Bohman. 2,421,986; June 10.
  - Clock construction. A. W. Haydon. 2,432,416; Dec. 9.
  - Clock controlled mechanism. B. and M. Regensteiner. 2,414,835; Jan. 28.
  - Clock, Electric. J. J. Kennedy. 2,420,827; May 20.
  - Clock, Gravity operated. J. B. de Kurowski. 2,414,288; Jan. 14.
  - Clock, International time and day. J. E. Lewis. 2,417,695; Mar. 18.
  - Clock mechanism, Electric. A. Quebatte and E. Seignol. 2,423,117; July 1.
  - Clock, World. A. Tellier. 2,429,853; Oct. 28.
  - Closing the ends of metal tube. O. A. Langos. 2,421,629; June 3.
  - Closure. B. R. Billmeyer. 2,431,303; Nov. 25.
  - Closure. L. B. Koontz. 2,419,648; Apr. 29.
  - Closure and rack for refrigerators, Combined. V. Civtka. 2,414,929; Jan. 28.
  - Closure cap for bottles, jars, and the like. L. T. Crabbe and D. C. Lathrop. 2,423,295; July 1.
  - Closure caps, Making. W. J. Keith. 2,418,353; Apr. 1.
  - Closure device. C. H. Judd. 2,422,420; June 17.
  - Closure device for bottle coolers and the like. K. K. Watson. 2,416,132; Feb. 18.
  - Closure device for building apertures. F. C. Russell and A. S. Barker. 2,414,419; Jan. 14.
  - Closure device for building apertures. F. C. Russell and A. S. Barker. 2,422,704; June 24.
  - Closure device, Two-piece self-closing. R. Nyden. 2,418,659; Apr. 8.
  - Closure, Dust guard well. E. Armstrong. 2,417,853; Mar. 25.
  - Closure fastener. A. T. Fisher. 2,422,723; June 24.
  - Closure flaps, Valve. H. M. Johnson. 2,418,975; Apr. 15.



- Closure for autoclaves, Hydraulic. H. Pfeumer. 2,421,847; June 10.
- Closure for automobile bodies of station wagon type. W. F. Kling. 2,422,912; June 24.
- Closure for bottles and the like. W. I. Taylor. 2,419,743; Apr. 29.
- Closure for containers. W. D. Brandon. 2,421,313; May 27.
- Closure for containers, Fire extinguishing. S. F. O'Connor. 2,432,628; Dec. 16.
- Closure for containers, Frangible. O. F. Blom. 2,428,354; Oct. 7.
- Closure for exhaust pipes. C. H. Harmon and D. L. Fort. 2,421,838; June 16.
- Closure for high-pressure vessels. F. Gasche. 2,424,449; July 22.
- Closure for nonrefillable containers. J. S. del Llano. 2,420,870; May 20.
- Closure for nonrefillable containers. A. R. González. 2,424,356; July 22.
- Closure for paperboard containers, Dispensing slide. W. P. Fessenden. 2,431,744; Dec. 2.
- Closure for receptacles, Sliding. E. R. Witherspoon. 2,432,846; Dec. 16.
- Closure for refrigerated lockers, Insulated. W. M. Baird. 2,419,002; Apr. 15.
- Closure, Handhole. M. G. Leonard and J. A. Guidosh. 2,420,318; May 13.
- Closure, Jar or bottle. A. J. Hadert. 2,432,236-7; Dec. 9.
- Closure means for containers. L. T. Crabbe and D. C. Lathrop. 2,424,801; July 29.
- Closure means for flexible pocket receptacles, End pocket. D. J. Broughton. 2,432,558; Dec. 16.
- Closure means, Jar. S. J. Kaczmarek. 2,433,761; Dec. 30.
- Closure, Non-refillable bottle. T. J. Taheny. 2,430,790; Nov. 11.
- Closure of polynuclear quinones with tetrachlorides or tetrabromides of titanium or zirconium, Ring. H. Z. Lecher, M. Scalera, and W. S. Forster. 2,416,931; Mar. 4.
- Closure panel and strip therefor. A. L. Herrmann. 2,432,889; Dec. 16.
- Closure, Plastic handbag. J. Samuelson. 2,416,457; Feb. 25.
- Closure, Sealing. M. O. Kuhn and J. P. Sedlak, Jr. 2,415,031; Jan. 28.
- Closure, Sealing and locking. W. R. Kohl. 2,415,139; Feb. 4.
- Closure, Sealing screw. T. H. Risk. 2,417,703; Mar. 18.
- Closure, Variable transparency. H. B. Jansen. 2,433,456; Dec. 30.
- Closure, Ventilated. L. Bishop. 2,420,297; May 13.
- Closures for tubular containers, Method and apparatus for making end. B. Bogoslovsky. 2,431,537; Nov. 25.
- Closures to hollow valve bodies, Electric resistance welding head. J. H. Hoern. 2,432,761; Dec. 16.
- Cloth and paper bag. H. S. Daniels. 2,428,266; Sept. 30.
- Cloth, Cleaner filter. J. W. Newsome. 2,414,326; Jan. 14.
- Cloth drying machine. W. H. Shields. 2,416,027; Feb. 18.
- Cloth-laying machine. J. Gold. 2,427,275; Sept. 9.
- Cloth roll mechanism for looms. C. P. Bergstrom and A. J. Herard, Jr. 2,425,781; Aug. 19.
- Cloth, Tennis ball cover. Z. J. Chagnon. 2,423,827; July 15.
- Cloth, Treating. R. P. Monsaert, Sr. 2,433,620; Dec. 30.
- Clothes brush. L. C. Tyler. 2,432,264; Dec. 9.
- Clothes closet hanger. C. D. Higby, Sr. 2,433,275; Dec. 23.
- Clothes drying rack. G. G. Bridges. 2,419,249; Apr. 22.
- Clothes hanger. C. F. Brinkman. 2,421,051; May 27.
- Clothes hanger. J. P. Niskanen. 2,422,845; June 24.
- Clothes hanger. H. L. Therrien. 2,428,820; Oct. 14.
- Clothes hanger attachment. H. C. Sundstrom. 2,416,779; Mar. 4.
- Clothesline apparatus. J. B. Mangan. 2,424,837; July 29.
- Clothes line tightener. F. L. Lade and W. T. Irwin. 2,425,476; Aug. 12.
- Clothesline pulley assembly. W. J. Ekins. 2,421,059; May 27.
- Clothesline reel. H. Cole and E. L. Kezertee. 2,423,226; July 1.
- Clothesline reel. P. G. Damstra. 2,417,587; Mar. 18.
- Clothespin bag. W. J. Foster. 2,430,763; Nov. 11.
- Clothespin, Plastic. M. Maccaferri. 2,429,557; Oct. 21.
- Clothespin, Plastic. J. B. Tegarty. 2,433,171; Dec. 23.
- Clothes pounder. J. H. Solomon. 2,421,297; May 27.
- Clothes washing machine. J. A. Castricone. 2,416,611; Feb. 25.
- Clothes - washing machine. F. V. Cheney. 2,430,211; Nov. 4.
- Clothes-washing machine. P. B. Winston. 2,426,851; Sept. 2.
- Clothes washing machine having tiltable drum, Tumbler type. W. F. Goodreau. 2,428,489; Oct. 7.
- Clothes washing machine, Portable. J. Hutchinson. 2,430,769; Nov. 11.
- Clothing. A. Philipps. 2,421,848; June 10.
- Clutch: See—
- Antikickback clutch.
- Axially engaging positive clutch.
- Balking clutch.
- Centrifugal clutch.
- Concave clutch.
- Engine starter clutch.
- Face clutch.
- Fluid operated clutch.
- Friction clutch.
- Latch operated axially engaging positive clutch.
- Magnetic clutch.
- Manually operated overrunning clutch.
- Mechanical clutch.
- Clutch. O. H. Banker. 2,427,346; Sept. 16.
- Clutch. M. J. De Good. 2,430,603; Nov. 11.
- Clutch. J. M. Dodwell. 2,422,533; June 17.
- Clutch. J. M. Dodwell. 2,425,731; Aug. 19.
- Clutch. K. L. Jeppesen and P. H. Keays. 2,426,023; Aug. 19.
- Clutch. D. D. Ormsby. 2,419,913; Apr. 29.
- Clutch. J. M. Schuckers. 2,432,591; Dec. 16.
- Clutch and bearing, One-way. A. Y. Dodge. 2,423,178; July 1.
- Clutch and brake, Electromagnetic. V. A. Hoover. 2,430,174; Nov. 4.
- Clutch and brake mechanism. M. L. Fast. 2,418,019; Mar. 25.
- Clutch and brake mechanism of road and like vehicles, Controlling. S. H. Edge. 2,433,443; Dec. 30.
- Clutch and brake, Sleeve. F. E. Munschauer. 2,428,337; Sept. 30.
- Clutch and clutch operating mechanism. E. E. Wemp. 2,422,155; June 10.
- Clutch and sprocket assembly. M. R. Gallimore. 2,421,875; June 10.
- Clutch and throttle control. J. F. Chapman. 2,414,717; Jan. 21.
- Clutch control. C. Olstad. 2,423,043; June 24.
- Clutch control mechanism. H. W. Price. 2,420,996; May 20.
- Clutch controlling device. H. Barras. 2,420,767; May 20.
- Clutch facing. W. P. Schmitter and E. J. Wellauer. 2,418,099; Mar. 25.
- Clutch for sewing machine, Overload release. F. Parry and B. P. Pinkvoss. 2,425,120; Aug. 5.
- Clutch for use in automatic transmissions, Fluid. L. E. Wilhelmy. 2,427,432; Sept. 16.
- Clutch mechanism. M. F. Hayes. 2,422,896; June 24.
- Clutch mechanism. C. H. Hook. 2,414,304; Jan. 14.
- Clutch mechanism. H. G. Nissen. 2,420,995; May 20.
- Clutch mechanism. W. H. Silver. 2,419,467; Apr. 22.
- Clutch mechanism. O. E. Wolff. 2,433,501; Dec. 30.
- Clutch mechanism of knitting machines. F. E. Deans. 2,420,524; May 13.
- Clutch mechanism, Synchronizing. B. B. Bachman and D. J. Macklin. 2,429,789; Oct. 28.
- Clutch operating mechanism. R. R. Stevens. 2,426,063; Aug. 19.
- Clutch structure. C. Gerst. 2,421,493; June 3.
- Clutch to facilitate motor stalling, Automatic flywheel release. C. W. Kelsey. 2,428,973; Oct. 14.
- Clutch wear signal. O. J. Blomberg. 2,425,985; Aug. 19.
- Clutches, Producing. E. Wildhaber. 2,427,641; Sept. 16.
- Coach, Double-deck trolley. O. A. Bartholomew. 2,430,324; Nov. 4.
- Coal for use in colloidal fuels, Preparing. K. A. Spencer and D. W. Machin. 2,430,085; Nov. 4.
- Coal-mining machine. C. E. Hair. 2,425,467; Aug. 12.
- Coal-mining machine. R. T. Hair and C. F. Ball. 2,425,468; Aug. 12.
- Coal pusher. F. P. Roesch. 2,417,128; Mar. 11.
- Coaster brake. T. C. Sayles. 2,423,070; June 24.
- Coaster, Floor. C. M. Henderson. 2,424,032; July 15.
- Coat hanger. M. D. Fortner. 2,413,914; Jan. 7.
- Coat hanger. M. I. Walters. 2,420,116; May 6.
- Coat lining, Removable sectional. J. Ellenberg. 2,415,996; Feb. 18.
- Coated abrasive strip holder. A. P. de Sanno, Jr. 2,427,090; Sept. 9.
- Coated and impregnated materials, Manufacture of. W. Gündel and E. Götte. 2,423,185; July 1.
- Coated articles, Making enamel. R. E. Harr. 2,418,932; Apr. 15.
- Coated compositions, Preparing. A. Pechukas and P. J. Gegner. 2,420,720; May 20.
- Coated fabric. D. J. Sullivan. 2,431,001; Nov. 18.
- Coated fabric, Manufacture of. P. R. Austin. 2,416,041; Feb. 18.
- Coated fluorescent fabric. J. L. Switzer. 2,417,383; Mar. 11.
- Coated welding rod. P. C. van der Willigen, J. J. Kreupeling, and J. J. de Jong. 2,429,175; Oct. 14.
- Coating and preserving fruits and vegetables, Preparation for. O. P. Greenstreet. 2,432,310; Dec. 9.
- Coating apparatus. R. L. Bartholomew. 2,432,081; Dec. 9.
- Coating apparatus. W. H. Colbert and A. R. Weinrich. 2,414,406; Jan. 14.
- Coating apparatus. W. P. Zabel. 2,422,457; June 17.
- One-way clutch.
- Overload release clutch.
- Overrunning clutch.
- Rotary hydraulic clutch.
- Safety release clutch.
- Speed responsive controlled one-way engaging clutch.
- Spring pressed overload release clutch.
- Synchronizing clutch.
- Three-way clutch.
- Torque responsive clutch.
- Two - way overrunning clutch.



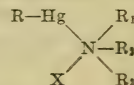
- Coating apparatus, Article. N. H. Mageoch. 2,421,343; May 27.
- Coating apparatus, Electrostatic. D. S. Gustin and A. W. Wainio. 2,426,016; Aug. 19.
- Coating apparatus, Strip. A. C. Grunke and E. R. Muddiman. 2,419,070; Apr. 15.
- Coating composition. G. R. Barrett. 2,417,344; Mar. 11.
- Coating composition. D. D. Cameron. 2,415,160; Feb. 4.
- Coating composition. J. Hamill. 2,427,857; Sept. 23.
- Coating composition. Cellulose acetate. R. C. Swain and P. Adams. 2,426,379; Aug. 26.
- Coating composition comprising cellulose-aceto-propionate and an alkyd resin. H. K. Ash. 2,421,001; May 27.
- Coating composition comprising polybutene, An organic solvent and an amine acetate wetting agent. H. C. Evans and D. W. Young. 2,423,761; July 8.
- Coating composition, Crystallizing. W. A. Waldie. 2,415,775; Feb. 11.
- Coating composition, Fire-resistant. M. Leatherman. 2,418,843; Apr. 15.
- Coating composition, Making a water and oil thinnable. G. H. Miller. 2,426,277; Aug. 26.
- Coating composition, Rust-inhibiting. G. C. Cox. 2,417,064; Mar. 11.
- Coating composition, Welding electrode. C. J. Hirschler and W. G. Campbell. 2,427,966; Sept. 23.
- Coating compositions and processes, Bituminous. R. J. Agnew. 2,430,546; Nov. 11.
- Coating compositions, Modifying the texture of. W. A. Waldie. 2,414,006; Jan. 7.
- Coating compositions on surfaces, Forming plastic. F. E. Drummond. 2,431,315; Nov. 25.
- Coating, Enteric. T. R. Springett. 2,433,244; Dec. 23.
- Coating for cartridge casings, Corrosion resistant. O. P. Clipper. 2,423,872; July 15.
- Coating for glass and application, Conductive. H. A. McMaster. 2,429,420; Oct. 21.
- Coating for magnetizable core, Preformed. F. J. Sigmund and W. S. Hlavin. 2,422,592; June 17.
- Coating frangible articles, Method and apparatus of. G. W. Borkland. 2,419,758; Apr. 29.
- Coating having a gradually increasing index of refraction, Reflection reducing. H. R. Moulton. 2,432,484; Dec. 9.
- Coating machine for collapsible tubes. F. Remington and R. A. Tartaglia. 2,420,620; May 13.
- Coating material emulsions, Making. L. Auer. 2,418,452-3; Apr. 8.
- Coating material from melted electrolytically coated continuous strip material, Recovering. K. Egge. 2,428,362; Oct. 7.
- Coating metal strip at high speeds, Method and apparatus for. W. E. Marshall. 2,428,523; Oct. 7.
- Coating metal with inorganic insulating composition. E. Roach. 2,424,054; July 15.
- Coating, Mirror protective. J. H. Smith. 2,424,011; Aug. 5.
- Coating of articles. P. White. 2,424,949; July 29.
- Coating or sizing treatment of yarns. H. Freund. 2,418,927; Apr. 15.
- Coating, Spraying a temporary protective. J. J. Brophy. 2,431,684; Dec. 2.
- Coating surfaces with quartz. J. C. Ogle, Jr., and A. R. Weinrich. 2,432,538; Dec. 16.
- Coating thermoplastics with silica. R. G. Kennelly. 2,431,873; Dec. 2.
- Coating to a web and controlling the thickness of the same, Method and apparatus for continuously applying a. L. W. Leonard and J. Q. Collin. 2,415,644; Feb. 11.
- Coating with thermoplastic material. B. C. Miller. 2,417,009; Mar. 4.
- Coatings, Caustic resistant. P. J. Gegner. 2,424,813; July 29.
- Coatings for metal stock, Manufacture of rustproof electrolytic. J. S. Nachtman. 2,428,033; Sept. 30.
- Coatings for metals, Protective. J. D. Morgan. 2,430,846; Nov. 11.
- Coatings from metallic conductors, Removing. P. Holmes. 2,421,617; June 3.
- Coatings, Protective. C. B. Large, M. J. Zucrow, and R. L. Hirsch. 2,426,512; Aug. 26.
- Coaxial cable connector. E. C. Quackenbush. 2,422,982; June 24.
- Coaxial line coupling. F. L. Salisbury. 2,425,834; Aug. 19.
- Coaxial line coupling. F. J. Schoenborn. 2,425,959; Aug. 19.
- Coaxial switch. H. R. Smith. 2,425,010; Aug. 5.
- Cobalt resinate and producing. P. R. Mosher. 2,431,191; Nov. 18.
- Co-carboxylase, Purifying. J. Weijlard. 2,415,544; Feb. 11.
- Cock, Cylinder relief. D. A. Kelly. 2,426,510; Aug. 26.
- Cock, Kelly. J. R. Greenlee. 2,418,404; Apr. 1.
- Cocoa beans, Treating. W. T. Jones and B. J. Zenlea. 2,428,802; Oct. 14.
- Coconut method. J. C. and J. H. Forkner. 2,422,893; June 24.
- Coconuts to release the meat from the shell, Treating. L. H. Zeun. 2,431,602; Nov. 25.
- Coding and decoding apparatus. T. E. Horst. 2,417,163; Mar. 11.
- Coding and decoding system. M. H. Loughridge. 2,414,472; Jan. 21.
- Coffee compositions. F. Pollack. 2,419,031; Apr. 15.
- Coffee concentrates, Making. W. A. Heyman. 2,432,759; Dec. 16.
- Coffee, Concentrating. H. A. Noyes. 2,416,945; Mar. 4.
- Coffee extract, Manufacture of concentrated. E. Palmer and D. S. Schwartz. 2,420,615; May 13.
- Coffee infusions, Method and apparatus for making. B. Bogoslawsky. 2,413,687; Jan. 7.
- Coffee or cocktail table. R. F. Brandom. 2,428,735; Oct. 7.
- Coffee, Packaging. A. S. Behrman. 2,430,663; Nov. 11.
- Coffee service apparatus. D. B. Galbally. 2,430,501; Nov. 11.
- Coil and support construction. B. B. Bauer. 2,428,826; Oct. 14.
- Coil, Bobbin-wound. G. H. Tyne. 2,421,444; June 3.
- Coil construction. E. M. Soreng. 2,425,443; Aug. 12.
- Coil for train communication apparatus, Receiving. E. W. Breisch. 2,426,724; Sept. 2.
- Coil for variometers, Spherical. E. E. Combs. 2,425,304; Aug. 12.
- Coil, High frequency tuning. P. D. Zottu. 2,425,411; Aug. 12.
- Coil, Ignition. W. F. Borgerd, F. G. Majer, H. E. Knopp, and L. E. Bennett. 2,416,148; Feb. 18.
- Coil, Ignition. T. Tognola. 2,418,531; Apr. 8.
- Coil structure, Inductance. H. J. Benner and A. M. Hadley. 2,432,715; Dec. 16.
- Coil support. S. F. Jarvis. 2,425,155; Aug. 5.
- Coil testing device, Electric. J. K. Thompson. 2,432,948; Dec. 16.
- Coil filter. E. B. Stewart. 2,426,569; Aug. 26.
- Coil winding machine, Toroidal. R. M. Conklin. 2,425,511; Aug. 12.
- Coil winding method. J. Gartner. 2,426,090; Aug. 19.
- Collar, Flying. F. E. Davis. 2,420,936; May 20.
- Colling means for making elastic coil structures. R. J. Arnold. 2,424,426; July 22.
- Coils, Forming. C. H. Erb. 2,424,974; Aug. 5.
- Coils, Winding. J. L. Johnson. 2,431,045; Nov. 18.
- Coin actuated releasing mechanism. C. Wilder. 2,429,148; Oct. 14.
- Coin control. S. May. 2,426,781; Sept. 2.
- Coin controlled mechanism. H. T. Larimore. 2,417,205; Mar. 11.
- Coin controlled mechanism. E. F. Semmler. 2,416,665; Mar. 4.
- Coin counting machine. W. G. Halfpap and A. R. Buchholz. 2,432,010; Dec. 2.
- Coin dispenser. E. F. Leese. 2,416,486; Feb. 25.
- Coin dispenser for ladies' handbags, Detachable. L. Amsterdam. 2,429,661; Oct. 28.
- Coin handling apparatus. R. F. Broussard. 2,430,384; Nov. 4.
- Coin holder. C. H. McWilliams. 2,428,498; Oct. 7.
- Coin holder. H. Ray. 2,423,467; July 8.
- Coin mechanism. B. W. Fry. 2,433,689; Dec. 30.
- Coin operated device. N. E. Bowen. 2,417,056; Mar. 11.
- Coin receptacle. E. R. Carper. 2,427,763; Sept. 23.
- Coin selector. F. E. Wallin. 2,422,867; June 24.
- Coin selector and slug rejector. H. A. Smith. 2,431,432; Nov. 25.
- Coke breaker. J. Drubko. 2,428,268; Sept. 30.
- Cold cathode fluorescent lamp. C. Herzog. 2,433,218; Dec. 23.
- Collapsible bottle carrier. J. L. Darnell. 2,431,231; Nov. 18.
- Collapsible clothes drier. P. Berman. 2,424,646; July 29.
- Collapsible clothing hanger. J. L. Comis and G. Nestos. 2,425,146; Aug. 5.
- Collapsible display stand. G. R. Elide. 2,433,748; Dec. 30.
- Collapsible drying rack. E. M. Johnson. 2,430,571; Nov. 11.
- Collapsible fiberboard container. J. Crawshaw. 2,421,453; June 3.
- Collapsible fiberboard container. J. C. Lang. 2,423,942; July 15.
- Collapsible gasoline tank. H. W. Lorenz. 2,432,025; Dec. 2.
- Collapsible golf bag carrier. D. J. Carr and W. A. Chelaw. 2,414,017; Jan. 7.
- Collapsible golf bag carrier. J. H. Freis. 2,414,941; Jan. 28.
- Collapsible golf bag carrier. J. H. Freis. 2,422,298; June 17.
- Collapsible golf club carrier. B. F. Schulte. 2,425,688; Aug. 12.
- Collapsible one-wheeled carrier. J. C. Neeley. 2,429,028; Oct. 14.
- Collapsible stand. W. W. Block. 2,415,784; Feb. 11.
- Collapsible stroller vehicle. L. C. Peltier. 2,419,790; Apr. 29.
- Collapsible structures, Making. V. R. Pantalone. 2,426,899; Sept. 2.
- Collapsible travel case. A. T. Garnett and E. E. Langford. 2,425,035; Aug. 5.
- Collapsible tube. B. Bogoslawsky. 2,428,261; Sept. 30.
- Collapsible tube. C. Dreyfus. 2,430,046; Nov. 4.
- Collapsing wheeled carrier. H. I. Gray. 2,414,943; Jan. 28.
- Collar. J. F. Lowe. 2,433,522; Dec. 30.
- Collar and pipe, Spacer. E. C. Milliken. 2,422,582; June 17.
- Collar attachment. J. W. Less. 2,420,752; May 20.



- Collar attachment. J. W. Less. 2,431,053; Nov. 18.  
 Collar can collar and mounting same. J. Coyle and W. F. Punte. 2,433,031; Dec. 23.  
 Collar can collar mounting. J. Coyle. 2,423,966; July 15.  
 Collar construction for tear strip type of reclosable containers. J. E. Socke. 2,428,394; Oct. 7.  
 Collar, Convertible shirt. S. Touloumis. 2,418,058; Mar. 25.  
 Collar fastener. E. Mieczek. 2,425,949; Aug. 19.  
 Collar, One-piece. B. Liebowitz. 2,423,510; July 8.  
 Collar or ring, Lubricant-coolant. L. P. Janson. 2,418,646; Apr. 8.  
 Collar, Shirt. G. H. Boyd, Sr. 2,422,219; June 17.  
 Collar, Shirt. R. O. Kennedy. 2,418,716; Apr. 8.  
 Collator. W. W. Davidson. 2,427,839; Sept. 23.  
 Collecting mechanism for rod shaped articles. D. W. Mollins and F. F. Ruau. 2,418,365; Apr. 1.  
 Collection and air conditioning for textile spinning frames, Pneumatic. H. C. Bechtler. 2,431,726; Dec. 2.  
 Collector. H. C. French. 2,414,641; Jan. 21.  
 Collector, Coin. O. A. Shann. 2,426,649; Sept. 2.  
 Collector contact member, Current. J. C. Duryee. 2,430,279; Nov. 4.  
 Collector ring. S. J. Goran. 2,419,992; May 6.  
 Collector, Stone. J. H. Booth. 2,418,924; Apr. 15.  
 Collet. J. H. Greenough. 2,415,482; Feb. 11.  
 Collet. J. T. Obecný. 2,417,836; Mar. 25.  
 Collet attachment for lathes or other metalworking machines. H. E. Crozier. 2,420,067; May 6.  
 Collet chuck. G. Fisher. 2,420,128; May 6.  
 Collet chuck holder. C. P. Wernig. 2,431,594; Nov. 25.  
 Collet construction for bar turning machines. F. M. Darnier. 2,427,322; Sept. 9.  
 Collet, Feed. I. H. Sheffer. 2,429,700; Oct. 28.  
 Collet stop, Screw machine. M. D. Caffin. 2,423,551; July 8.  
 Colloidal and homogenizing mill with toothed stator and rotor. R. C. Hopkins. 2,430,768; Nov. 11.  
 Colloidal dispersions of a rubberlike reaction product of an inorganic polysulfide and an olefin dihalide, Making. J. Edwardes. 2,419,060; Apr. 15.  
 Colon therapy apparatus. R. W. De Welles. 2,420,586; May 13.  
 Color correction using colored couplers, Photographic. P. W. Vittum and R. J. Arnold. 2,428,054; Sept. 30.  
 Color developers comprising arylsulfonhydrazides and developing with same. W. A. Schmidt and J. A. Sprung. 2,424,256; July 22.  
 Color facsimile. K. Singer. 2,428,945; Oct. 14.  
 Color facsimile receiver. LaV. R. Philpott. 2,431,360; Nov. 25.  
 Color facsimile system. W. G. H. Finch. 2,422,778; June 24.  
 Color formers, Acetoacet-methine. J. D. Kendall and D. J. Fry. 2,427,910; Sept. 23.  
 Color formers, Polyamide. D. M. McQueen. 2,428,108; Sept. 30.  
 Color mixing system, Television. C. C. Larson. 2,418,414; Apr. 1.  
 Color negative film containing integral masking images for color correction, Production of. H. H. Duerr, H. W. Morrell, Jr., and H. C. Harsch. 2,431,996; Dec. 2.  
 Color removal from acrylonitrile polymers. R. A. Scheiderbauer. 2,432,447; Dec. 9.  
 Color separation negatives, Method and apparatus for making. L. A. Thompson. 2,415,051; Jan. 28.  
 Color television system. A. N. Goldsmith. 2,423,769-70; July 8.  
 Color television system. F. J. Somers. 2,429,849; Oct. 28.  
 Colored granules, Manufacture of artificially. F. P. Reynolds. 2,422,927; June 24.  
 Colorimeter. M. Mass. 2,421,344; May 27.  
 Colorimeter. J. A. Senn. 2,424,858; July 29.  
 Coloring garnet. F. P. Hauck. 2,426,020; Aug. 19.  
 Colostomy appliance. H. C. Zaro. 2,423,060; June 24.  
 Comb. A. A. Arvintz, N. A. Arvins, and R. A. Arvintz. 2,413,809; Jan. 7.  
 Comb. B. J. Flageole. 2,426,444; Aug. 26.  
 Comb. W. J. Mims. 2,416,704; Mar. 4.  
 Comb. G. F. Ruhl. 2,430,303; Nov. 4.  
 Comb and case therefor. E. S. Tupper. 2,420,576; May 13.  
 Comb, Clamp. J. E. McArthur. 2,425,435; Aug. 12.  
 Comb drive, Doffer. O. C. Kay and V. Rowe. 2,413,832; Jan. 7.  
 Combing machine for textile fibers. J. W. Nasmith. 2,428,633; Oct. 7.  
 Combination changing lock. E. A. Schachinger. 2,427,814; Sept. 23.  
 Combination clothes hanger. A. R. Kjeldsen. 2,420,885; May 20.  
 Combination collar pin. A. C. Forsland. 2,425,872; Aug. 19.  
 Combination container for face powder and other make-up items. R. A. Kartyshal. 2,426,883; Sept. 2.  
 Combination drawing board. C. Wolf. 2,414,183; Jan. 14.  
 Combination electrical and fluid conducting cable. F. G. Albin. 2,416,561; Feb. 25.  
 Combination garment hanger. H. Erran. 2,420,742; May 20.  
 Combination lathe tool. A. C. Nielsen. 2,430,823; Nov. 11.  
 Combination lock. F. K. Heyer. 2,424,396; July 22.  
 Combination lock. S. S. Karavia. 2,420,484; May 13.  
 Combination lock. A. Rabal and A. Rodriguez. 2,433,157; Dec. 23.  
 Combination lock. A. C. Sanowskis. 2,425,646; Aug. 12.  
 Combination urn bag ring. G. O. Calentine. 2,429,389; Oct. 21.  
 Combined arc welding and chipping tool. J. H. Blakemore. 2,428,138; Sept. 30.  
 Combined brief and overnight case. S. H. Lifton. 2,418,589; Apr. 8.  
 Combined comb and flower holder. S. O'Neill. 2,428,985; Oct. 14.  
 Combined curtain, drape, and shade bracket. H. U. L. and H. E. Parks. 2,420,149; May 6.  
 Combined fuse and electric switch. T. M. Cole. 2,423,227; July 1.  
 Combined leveling and bracing jack. C. T. Ketz. 2,428,711; Oct. 7.  
 Combined roller and spool mounting. J. A. Ziegler. 2,431,856; Dec. 2.  
 Combined tie press and holder. H. O. Joseph. 2,415,247; Feb. 4.  
 Combined tube and tooth brush holder. W. D. Winslow. 2,423,669; July 8.  
 Combustion apparatus, Rotating. R. H. Goddard. 2,424,610; July 29.  
 Combustion chamber. J. A. Campbell, Jr., and E. C. Nist. 2,430,101; Nov. 4.  
 Combustion chamber. K. V. Smith. 2,422,213; June 17.  
 Combustion chamber for internal-combustion engines, Adjustable. J. M. and J. A. Woodruff. 2,433,639; Dec. 30.  
 Combustion control. S. Chase. 2,418,163; Apr. 1.  
 Combustion control. H. E. Malone and C. Hotchkiss. 2,414,112; Jan. 14.  
 Combustion device. H. H. Moore. 2,417,835; Mar. 25.  
 Combustion gas turbines arranged in series, Regulation of. R. Birmann. 2,428,830; Oct. 14.  
 Combustion system, Submerged. T. S. See, J. E. Tegarden, A. W. Munster, and W. G. See. 2,432,942; Dec. 16.  
 Comestibles, Freezing. C. H. Welling and C. K. Reiman. 2,424,870; July 29.  
 Communiting device, Vegetable and fruit. J. M. Newman. 2,417,564; Mar. 18.  
 Communiting machine. H. H. Wagner and E. G. Magnus. 2,417,184; Mar. 11.  
 Commode, Automatic self-flushing. N. Shepard. 2,428,685; Oct. 7.  
 Commode, Portable flush-type. I. Levin. 2,428,462; Oct. 7.  
 Communication and control system for airplanes. A. J. Sorensen. 2,427,979; Sept. 23.  
 Communication and guiding system. E. M. Deloraine and P. R. Adams. 2,421,017; May 27.  
 Communication and repeat back system. C. J. Rasmussen. 2,428,528; Oct. 7.  
 Communication, Secret. W. W. Hansen. 2,418,119; Apr. 1.  
 Communication signal repeater, Heat responsive. R. B. Shanck. 2,414,488; Jan. 21.  
 Communication system. E. H. B. Bartelink. 2,419,193; Apr. 22.  
 Communication system. J. R. Desch, E. V. Gulden, and R. E. Mumma. 2,425,307; Aug. 12.  
 Communication system. I. A. Krause. 2,426,225; Aug. 26.  
 Communication system. F. R. Lamberty. 2,419,958; May 6.  
 Communication system. R. E. Mumma and F. X. Bucher. 2,428,089; Sept. 30.  
 Communication system, Consecutive stations. C. O. Tucker and O. H. Gotsch. 2,427,078; Sept. 9.  
 Communication system, Delay. L. Katchatouroff. 2,426,223; Aug. 26.  
 Communication system, Electrical. L. Katchatouroff. 2,426,222; Aug. 26.  
 Communication system for railroads, Code. W. M. Barker. 2,422,519; June 17.  
 Communication system, Multichannel electrical. P. K. Chatterjea and L. W. Houghton. 2,433,343; Dec. 30.  
 Communication system, Multichannel pulse. P. K. Chatterjea and L. W. Houghton. 2,429,608; Oct. 28.  
 Communication system, Multiple pulse characteristic. H. E. Thomas. 2,415,918-20; Feb. 18.  
 Communication system, Pulse multiplex. E. M. Deloraine and J. L. Fearing. 2,429,613; Oct. 28.  
 Communication system, Telescript. E. S. Wilson and W. K. Schnepf. 2,415,718; Feb. 11.  
 Communication unit, Two-way television. A. H. Rosenthal. 2,420,198; May 6.  
 Communicational system with transmission line impedance control means, Multiplex carrier current. L. Katchatouroff and M. A. Lalonde. 2,421,333; May 27.  
 Commutator. E. O. Mueller. 2,426,042; Aug. 19.  
 Commutator design. D. H. Inman. 2,432,066; Dec. 2.  
 Commutator structure. G. L. Moeller. 2,421,845; June 10.  
 Compact or vanity. L. Grassi. 2,424,817; July 29.  
 Comparator circuit. W. R. Mercer. 2,433,287; Dec. 23.  
 Comparator gauge. W. F. Aller. 2,419,433; Apr. 22.  
 Comparator, Light beam. D. A. Korman. 2,427,790; Sept. 23.  
 Compartmented collapsible fiberboard container. H. S. Cann. 2,425,230; Aug. 5.



- Compartmented insulated lunch box. E. M. Shaw. 2,415,767; Feb. 11.
- Compass, Beam. G. F. Zumbuhl. 2,419,752; Apr. 29.
- Compass, Bow. A. P. Bartusch. 2,422,236; June 17.
- Compass card refinishing stand. M. Kidjel. 2,416,323; Feb. 25.
- Compass, Magnetic. W. G. White. 2,428,346; Sept. 30.
- Compass, Pivoted-leg. E. E. Fife. 2,428,964; Oct. 14.
- Compass, Radio. E. D. Blodgett. 2,422,072; June 10.
- Compass, Scale. J. F. Budnick. 2,425,862; Aug. 19.
- Compass system, Gyro flux valve. C. F. Fragola. 2,424,562; July 29.
- Compass system, Gyro magnetic. L. F. Carter. 2,414,448; Jan. 21.
- Compass system, Remote indicating magnetic. A. T. Sinks. 2,426,470; Aug. 26.
- Compass transmitter. A. T. Sinks. 2,414,128; Jan. 14.
- Compensated standard, Adjustable. H. T. Wilhelm. 2,430,488; Nov. 11.
- Compensating means for dimensional changes in recorder charts. F. F. Dern, Jr., and A. J. Williams, Jr. 2,432,229; Dec. 9.
- Compensating means for garment pressing machines, Resiliently mounted adjustable. N. Monsarrat. 2,431,271; Nov. 18.
- Compensating roller support. H. B. Wessenger. 2,430,487; Nov. 11.
- Compensator. J. Robinson. 2,413,728; Jan. 7.
- Compensator for brake beam struts, Wear. H. D. Brown. 2,431,914; Dec. 2.
- Compensator for liquid control gears, Electrohydraulic lock and temperature. C. G. Hebel. 2,430,930; Nov. 18.
- Compensator for refractometers, Temperature. W. Seaman. 2,421,854; June 10.
- Complex waves, Analysis and representation of. W. Koenig, Jr. 2,429,229; Oct. 21.
- Complex waves, Analysis and representation of. R. K. Potter. 2,425,003; Aug. 5.
- Complex waves, Analysis and representation of. R. K. Potter. 2,429,236; Oct. 21.
- Components of air, Recovery of the. C. C. Van Nuy. 2,423,274; July 1.
- Components of air, Separating the. C. C. Van Nuy. 2,433,536; Dec. 30.
- Composite article and manufacture. D. W. De Bra. 2,424,557; July 29.
- Composite building unit. C. W. Morden. 2,426,943; Sept. 2.
- Composite decorative unit. W. C. Gregory. 2,425,933; Aug. 19.
- Composite filtering medium and filtering. H. W. Huse, C. R. Faust, and T. L. Leininger. 2,416,524; Feb. 25.
- Composite metal bodies, Making. R. F. Mehl. 2,416,400; Feb. 25.
- Composite plastic sheet for use in the formation of light-polarizing images. F. J. Binda. 2,416,510; Feb. 25.
- Composite product and making the same. B. S. Garvey. 2,418,025; Mar. 25.
- Composite punching and dimpling tool. O. G. Rieske. 2,432,804; Dec. 16.
- Composite sealing ring. M. W. Marien. 2,410,047; May 6.
- Composite sheet metal structure. G. W. Blessing. 2,423,870; July 15.
- Composite structural materials, Manufacturing. P. Schwarzkopf. 2,422,439; June 17.
- Composite structure and making the same. G. W. Blessing. 2,423,869; July 15.
- Composite structures. A. M. Neal and J. J. Verbanc. 2,415,839; Feb. 18.
- Composite structures and making the same. S. G. Saunders and H. Morrison. 2,429,897; Oct. 28.
- Composite structures, Production of reinforced. E. W. Rugeley and T. A. Feild, Jr. 2,418,904; Apr. 15.
- Composite surfacing materials to a bituminous base, Applying. C. G. Abernathy. 2,413,901; Jan. 7.
- Composite television signal generator. R. W. Sanders. 2,426,710; Sept. 2.
- Composition and method. H. G. Guy and H. F. Dietz. 2,430,332; Nov. 4.
- Composition and method. D. Melnick. 2,426,634; Sept. 2.
- Composition comprising a vehicle containing drying oil-modified alkyd or phenol-formaldehyde resin, pigment, litharge, and calcium hydrate, Coating. L. Balassa. 2,424,730; July 29.
- Composition comprising colloidal silver salt of sulfa drug. W. A. Lott. 2,422,688; June 24.
- Composition containing a cellulose compound and a morpholide. L. W. Georges. 2,429,679; Oct. 28.
- Composition containing alkaline latex and resorcinol-formaldehyde-amine resin. E. S. Ebers. 2,417,975; Mar. 25.
- Composition containing an esterified acidic sulfo-polycarboxy acid fractional ester of an oxyethylated alcoholiform polyhydroxy body. M. DeGroot and B. Keiser. 2,413,814; Jan. 7.
- Composition containing higher condensation products of aldehydes and aromatic amines. J. D. Bartleson. 2,432,713; Dec. 16.
- Composition containing polyvinyl alcohol and lauryl pyridinium chlorides. G. J. Esselen and M. H. Gurley, Jr. 2,430,499; Nov. 11.
- Composition for and whitening textiles with a blue fluorescent material and ultramarine. P. W. Tainsh. 2,424,778; July 29.
- Composition for removing unwanted hair. L. J. Neary. 2,417,882; Mar. 25.
- Composition for waterproofing and fireproofing textile material and the treated material. J. H. Klaber. 2,424,831; July 29.
- Composition of food and making same. R. Perech. 2,428,636; Oct. 7.
- Composition of matter. M. Chanin. 2,426,762; Sept. 2.
- Composition of matter. R. F. McCleary and S. M. Roberts. 2,417,118; Mar. 11.
- Composition of matter and making the same, Vitreous and vitrifiable. H. R. Feichter. 2,414,367-9; Jan. 14.
- Composition of matter, Producing an intumesced. H. M. Spencer. 2,430,483; Nov. 11.
- Composition of matter suitable for use as a lubricant and as an addition agent to lubricants, Preparing. J. M. Musselman. 2,422,206; June 17.
- Composition of matter suitable for use as a lubricant and lubricant comprising the same. J. M. Musselman. 2,415,836; Feb. 18.
- Composition of matter with a scent of ambrettolide and making same. C. Collaud. 2,417,151; Mar. 11.
- Compositions containing copolymers of vinyl acetate with dialkyl esters of maleic acid and process by which such copolymers and compositions are prepared. P. L. Gordon. 2,430,564; Nov. 11.
- Compositions for built-up roofing. H. W. Greider and G. A. Fasold. 2,424,234; July 22.
- Compound dielectric material and manufacturing the same. K. H. Barnard, J. C. Balsbaugh, and M. J. Blackwood. 2,416,892; Mar. 4.
- Compound meter. C. P. Bergman. 2,425,720; Aug. 19.
- Compound rotary pump. A. Wahle. 2,426,539; Aug. 26.
- Compounded oil. J. T. Rutherford and R. J. Miller. Re. 22,830; Jan. 14.
- Compounding characteristics of butadiene-1,3 copolymers by means of n-halogen amides, Improving. H. E. Schroeder. 2,416,668; Mar. 4.
- Compounds containing an active methylene group, and preparing the same. E. T. Stillier. 2,422,598; June 17.
- Compounds, Fluorination of unsaturated. A. F. Benning. 2,426,172; Aug. 26.
- Compounds having the formula



- F. J. Sowa. 2,423,262; July 1.
- Compounds of riboflavin and manufacture thereof, Soluble. M. R. Zentner. 2,423,074; June 24.
- Compounds of the norpinane series. J. P. Bain. 2,427,343; Sept. 16.
- Compounds of the norpinane series and making. J. P. Bain. 2,427,345; Sept. 16.
- Compounds with marihuana activity, Preparation of. R. Adams. 2,419,936; May 6.
- Compressed air installation. R. P. Pescara. 2,414,166; Jan. 14.
- Compressed gas container. H. Merker and J. L. Graham. 2,421,460; June 3.
- Compression machine. O. G. Patch. 2,414,550; Jan. 21.
- Compression tool. W. F. Wendt. 2,423,805; July 8.
- Compressor. H. A. Berliner. 2,423,634; July 8.
- Compressor. H. W. Harrer. 2,420,426; May 13.
- Compressor. R. J. Kuntz. 2,425,813; Aug. 19.
- Compressor. V. H. Pavlecka and J. K. Northrop. 2,414,551; Jan. 21.
- Compressor. W. J. Rouleau. 2,420,098; May 6.
- Compressor. J. A. Sinclair. 2,419,920; Apr. 29.
- Compressor. E. F. Vilter, W. E. Michener, K. L. Kraatz, M. E. Ruess and C. G. Bach. 2,427,638; Sept. 16.
- Compressor and compressor valve. A. F. Sanders. 2,419,091; Apr. 15.
- Compressor apparatus. A. H. Redding. 2,415,847; Feb. 18.
- Compressor, Centrifugal. I. C. Jennings. 2,425,885; Aug. 19.
- Compressor, Centrifugal. G. F. Wislicenus. 2,422,763; June 24.
- Compressor, Field. F. S. Young. 2,424,010; July 15.
- Compressor for hydraulic brake units and the like. H. A. Benzel. 2,421,866; June 10.
- Compressor, Free piston type internal-combustion. R. J. Welsh. 2,425,850; Aug. 19.
- Compressor, Gas. J. A. Hunt and A. E. Moreillon. 2,430,401; Nov. 4.
- Compressor-motor apparatus. A. Latham, Jr. 2,422,789; June 24.
- Compressor or supercharger, Rotary. E. Borsting. 2,414,187; Jan. 14.
- Compressor pressure control. R. O. Balogh. 2,423,677; July 8.
- Compressor regulator. S. F. Evelyn. 2,421,872; June 10.
- Compressor, Rotary. F. B. Halford. 2,422,615; June 17.
- Compressor system. C. S. Baker. 2,422,880; June 24.
- Compressor system. H. C. Zilly. 2,432,553; Dec. 16.



- Compressor, turbine, and heater arrangement for power plants working with a hot gaseous medium. K. Oechslein. 2,414,237; Jan. 14.
- Compressor, turbine, and the like, Axial-flow. A. A. Griffith. 2,414,410; Jan. 14.
- Compressor valve. P. L. Crittenden. 2,431,733; Dec. 2.
- Compressor, Winged-strap rotary. F. W. Knowles. 2,422,972; June 24.
- Computer. P. B. Doub. 2,415,581; Feb. 11.
- Computer. J. D. Ferguson. 2,426,192; Aug. 26.
- Computer. W. M. Rader. 2,413,888; Jan. 7.
- Computer. D. E. Wilcox. 2,417,098; Mar. 11.
- Computer, Air Navigation. B. C. Flitton. 2,423,764; July 8.
- Computer, Antiaircraft data. D. E. Morrison. 2,413,727; Jan. 7.
- Computer, Attack course. A. A. Wellings. 2,416,363; Feb. 25.
- Computer, Electric. E. F. W. Alexanderson. 2,417,229; Mar. 11.
- Computer, Electronic. P. J. Herbst. 2,420,228; Oct. 21.
- Computer, Electronic. J. A. Rajchman. 2,415,190-1; Feb. 4.
- Computer, Electronic. J. A. Rajchman. 2,428,990; Oct. 14.
- Computer, Electronic. R. L. Snyder, Jr., and J. A. Rajchman. 2,431,591; Nov. 25.
- Computer, Electronic. A. W. Vance. 2,428,596; Oct. 7.
- Computer, Fire control. T. L. Gottier. 2,417,549; Mar. 18.
- Computer for aeronautical bomb sights. K. Clark. 2,431,919; Dec. 2.
- Computer for ballistic interactions. E. Lakatos. 2,414,819; Jan. 28.
- Computer for ordnance data. R. E. Crooke and W. B. Constantinides. 2,430,108; Nov. 4.
- Computer for solving bombing problems. G. B. Dantzig. 2,421,745; June 10.
- Computer, Navigational. E. C. Isom. 2,425,097; Aug. 5.
- Computer, Navigational. T. P. Van Sciever. 2,433,249; Dec. 23.
- Computer, Weight and balance. A. M. Fairbanks. 2,432,738; Dec. 16.
- Computing and billing meter. H. A. Levey and T. Gary, Jr. 2,414,821; Jan. 28.
- Computing and map reading device, Speed. H. J. Marschak. 2,424,763; July 29.
- Computing device, Electron. J. A. Rajchman. 2,420,013; May 6.
- Computing device, Electron. J. L. Whittaker. 2,420,509; May 13.
- Computing device, Electronic. J. A. Rajchman. 2,428,811-12; Oct. 14.
- Computing device for photographic cameras. A. Simmon. 2,418,370; Apr. 1.
- Computing device for photographic cameras. A. Simmon. 2,422,316; June 17.
- Computing instrument. E. P. Ross and H. S. Marsh. 2,413,847; Jan. 7.
- Computing means, Navigational. L. L. Sa Pereira. 2,421,965; June 10.
- Computing system, Electronic. P. J. Herbst. 2,429,227; Oct. 21.
- Concave clutch. H. E. Emmott. 2,419,712; Apr. 29.
- Concealing siding panel joint. E. M. Young. 2,419,047; Apr. 15.
- Concentrator, Fruit juice. J. D. Lucero. 2,423,035; June 24.
- Concentric core flux valve. R. S. Curry, Jr., and C. F. Fragola. 2,428,014; Sept. 30.
- Concentric thread gauge. J. B. Lovick. 2,425,381; Aug. 12.
- Concrete and cement, Scale resistant. J. G. Mark. 2,420,144; May 6.
- Concrete arches, Making reinforced. R. G. Séchaud and A. N. F. Metz. 2,415,709; Feb. 11.
- Concrete body, Reinforced. K. P. Billner. 2,414,011; Jan. 7.
- Concrete corrugated connection, Precast. A. Henderson. 2,414,738; Jan. 21.
- Concrete elements or structures, Fabrication of. C. Dobell. 2,413,911; Jan. 7.
- Concrete expansion joint. J. N. Heltzel. 2,416,584; Feb. 25.
- Concrete form lining and manufacture. E. Frederick, Jr., and W. Waterfall. 2,432,002; Dec. 2.
- Concrete, Making prestressed reinforced. E. P. Muntz. 2,413,990; Jan. 7.
- Concrete member, Precast reinforced. A. Henderson. 2,423,936; July 15.
- Concrete members, Precast reinforced. A. Henderson. 2,420,427; May 13.
- Concrete mixer. G. G. Gaertner. Re. 22,912; Sept. 9.
- Concrete oil storage tanks, Building. W. G. Laird. 2,414,310; Jan. 14.
- Concrete piles, Method of and apparatus for making. M. M. Upson and E. A. Smith. 2,421,666; June 3.
- Concrete pump. W. J. Hoenecke. 2,415,592; Feb. 11.
- Concrete, Refractory. D. W. Kocher. 2,416,701; Mar. 4.
- Concrete retaining wall. E. E. Easterday. 2,413,867; Jan. 7.
- Concrete shell construction and manufacture therefor, Reinforced. K. Billig. 2,425,079; Aug. 5.
- Concrete spring tie. J. B. Hayes. 2,421,502; June 3.
- Concrete structural element reinforced with glass filaments. J. G. Jackson. 2,425,883; Aug. 19.
- Condensation products and preparing the same. C. Graenacher, R. Sallmann, and O. Albrecht. 2,433,449; Dec. 30.
- Condensation products of diolefins with diarylamines and antioxidant compositions containing said products. A. W. Sloan. 2,419,735; Apr. 29.
- Condenser: See—
- Microscope condenser. Still head condenser.
- Condenser. R. B. Brock. 2,425,669; Aug. 12.
- Condenser, assembling machine. H. I. Danziger. 2,419,484; Apr. 22.
- Condenser for electrical circuits, Temperature compensating. E. A. Berg. 2,414,436; Jan. 21.
- Condenser for liquid volume indicators, Electrical. H. Waymouth. 2,428,898; Oct. 14.
- Condenser-receiver, Refrigeration. P. Schlumbohm. 2,424,287; July 22.
- Condenser structure. F. G. Albin. 2,429,085; Oct. 14.
- Condiment dispenser. R. T. Killa. 2,431,049; Nov. 18.
- Condiment holder. J. A. Benoit. 2,427,380; Sept. 16.
- Conditioner, Fiber. J. Blewett. 2,421,478; June 3.
- Conditioner for recirculated exhaust gases. A. H. Wassman. 2,419,747; Apr. 29.
- Conditioning apparatus for steam heating systems. F. J. Miller. 2,427,016; Sept. 9.
- Conditioning artificial silk thread. H. B. Kline and K. M. McLellan. 2,421,624; June 3.
- Conditioning machine for an oil well operated by water flowing from said well for feeding reagent to the water. Water. C. R. Yard. 2,422,062; June 10.
- Conducting material and device and making them. R. S. Ohl. 2,415,841; Feb. 18.
- Conductor, Electrical. P. Robinson and S. O. Dorst. 2,421,652; June 3.
- Conductor, Electrical connecting. M. D. Bergan. 2,427,518; Sept. 16.
- Conductor for high frequency-currents, Low-loss. J. Slepian. 2,417,785; Mar. 18.
- Conductor for dynamoelectric machines, Composite. L. A. March. 2,433,671; Dec. 30.
- Conductor support. G. G. Greene and D. Abraham. 2,424,687; July 29.
- Conductors and semiconducting spacers therefor, Semiconducting coated. W. B. Atkinson, L. R. Hill, and H. H. Barker. 2,427,700; Sept. 23.
- Conductors consisting principally of copper, Electrolytically cleaning and plating. K. M. Huston. 2,422,902; June 24.
- Conductors having fabric layers impregnated with ester gum saturants, Insulated. S. E. Brillhart and A. N. Gray. 2,426,858; Sept. 2.
- Conductors insulated with rubber compound layers bonded together. W. P. Frisco. 2,427,198; Sept. 9.
- Conductors, Manufacture of insulated electric. W. F. O. Pollett. 2,426,413; Aug. 26.
- Conduit and coupling therefor, Metallic. I. Cowles. 2,427,260; Sept. 9.
- Conduit assembly, Flexible exhaust. H. A. Sprenger and J. R. Greene. 2,420,153; May 6.
- Conduit, Coin. L. J. Andres. 2,430,658; Nov. 11.
- Conduit coupling. R. L. Acres. 2,426,332; Aug. 26.
- Conduit, Exhaust. L. T. Miller, B. T. Salmon, and C. L. Zitz. 2,420,964; May 20.
- Conduit having annular ribs, a sump, and sediment direction means. H. J. Goodyer. 2,432,308; Dec. 9.
- Conduit, High-temperature. L. J. Weber. 2,423,213; July 1.
- Conduit, Lined. F. H. Janacek and L. Larson. 2,429,580; Oct. 21.
- Conduit-supported wire clip. A. Robertson. 2,417,269; Mar. 11.
- Conduit supporting clip. R. S. Berry. 2,423,222; July 1.
- Conduit, Thermal insulated. W. D. Callan. 2,430,275; Nov. 4.
- Cone, Chilling. H. Church. 2,433,434; Dec. 30.
- Cone jacket forming machine. J. Cutler. 2,420,417; May 13.
- Cone, Textile. C. K. Dunlap. 2,430,710; Nov. 11.
- Confection. E. Friedman. 2,417,480; Mar. 18.
- Confection. H. C. Gibson, Sr. 2,429,353; Oct. 21.
- Confectionery making machine. J. J. Kooman. 2,425,942; Aug. 19.
- Conformator gauge. J. D. West. 2,425,216; Aug. 5.
- Connecting and mutually insulating spaced metal elements, Electrical method of mechanically. E. Lodwig. 2,419,149; Apr. 15.
- Connecting and positioning device. M. S. Curtis and H. Schoepe. 2,424,153; July 15.
- Connecting device, Latch-type. C. W. Mott. 2,430,728; Nov. 11.
- Connecting means for conductors of coaxial electrical transmission lines. W. A. Bruno. Re. 22,920; Sept. 30.
- Connecting means for explosive cartridges. W. F. Smith. 2,429,079; Oct. 14.
- Connecting means for shaker conveyer troughs. R. S. Bigelow. 2,414,710; Jan. 21.
- Connecting means for shaker conveyer troughs. A. Moulton. 2,414,324; Jan. 14.
- Connecting means for shielded ignition leads. J. W. Anderson. 2,420,118; May 6.
- Connecting rod. M. Essl. 2,429,410; Oct. 21.
- Connecting rod. G. E. Husted. 2,430,176; Nov. 4.



- Connection, Cushioned. A. S. Krotz. 2,430,573; Nov. 11.
- Connection, Detachable. I. R. Versoy. 2,429,782; Oct. 28.
- Connection for electron discharge tubes, Lead-in. L. G. Lawrence. 2,433,375; Dec. 30.
- Connection for fluid conduits, Constant volume. O. H. Griswold. 2,417,249; Mar. 11.
- Connection for thread-advancing reels, Fluid supply and removal. A. A. McCormack. 2,418,653; Apr. 8.
- Connection for well equipment. G. R. Hunt. 2,421,945; June 10.
- Connector: *See*—
- Balanced to unbalanced circuit connector.
  - Battery connector.
  - Battery terminal connector.
  - Bayonet connector.
  - Bus bar connector.
  - Cable connector.
  - Circuit connector.
  - Clamp type connector.
  - Coaxial cable connector.
  - Electrical bushing type connector.
  - Electrical connector.
  - Flexible connector.
  - Fused cable connector.
  - Leakproof container.
  - Lug strap connector.
  - Multiple connector.
  - Parachute harness connector.
  - Pressed insulated connector.
  - Quick release parachute harness connector.
  - Reinforced collapsible paperboard container.
  - Resilient self-locking electrical connector.
  - Reusable nesting shipping container.
  - Rotatable electric connector.
  - Separable electrical connector.
  - Shielded spark plug connector.
  - Stamped chain connector.
  - Windshield wiper arm and blade connector.
- Connector. S. P. Becker. 2,422,332; June 17.
- Connector. R. W. Gaudie. 2,419,018; Apr. 15.
- Connector. F. E. Harris, A. S. Hegeman, Jr., and H. N. Snook. 2,425,802; Aug. 19.
- Connector. J. C. Macy. 2,416,335; Feb. 25.
- Connector and insulator, Electrical. W. S. Stockton. 2,423,350; July 1.
- Connector block. H. A. Strickland, Jr. 2,424,197; July 15.
- Connector device, Shockproof. J. F. O'Brien and E. S. Boynton. 2,419,585; Apr. 29.
- Connector for articles, Self-threading. J. S. Stull. 2,416,964; Mar. 4.
- Connector for conductor wires. J. Nicolazzo. 2,416,943; Mar. 4.
- Connector for electric cables, cords or the like, Swivel. M. Larrabure S. 2,414,957; Jan. 28.
- Connector for electrical conductors, Solderless. H. M. Stieglitz. 2,422,934; June 24.
- Connector for power transmission lines, Jack. G. W. Miller. 2,418,040; Mar. 25.
- Connector for rods, stanchions, and the like. H. Lombard. 2,427,681; Sept. 23.
- Connector for wrist-watch bracelets and other linkages. L. E. Valcourt. 2,424,127-8; July 15.
- Connector, Jack and plug type of electrical. A. Liebscher. 2,429,026; Oct. 14.
- Connector of the plug type, Multiple circuit. H. P. Luhn. 2,417,369; Mar. 11.
- Consolidating refractory metal powder to dense coherent form, Method of and apparatus for. W. J. Newman. 2,431,691; Dec. 2.
- Constant level device. R. W. Johnson, L. V. McCarty, and V. R. Pawelsky. 2,430,719; Nov. 11.
- Constant velocity joint. G. E. Dunn. 2,432,395; Dec. 9.
- Constituents of air, Separation of. C. C. Van Nuy. 2,423,273; July 1.
- Constituents of gaseous mixtures, Separation of. C. C. Van Nuy. 2,417,279; Mar. 11.
- Constituents of gaseous mixtures, Separation of the. W. Dennis. 2,431,866; Dec. 2.
- Constituents of gaseous mixtures, Separation of the. W. Dennis. 2,433,508; Dec. 30.
- Constituents of gaseous mixtures, Separation of the. W. Dennis. 2,433,604; Dec. 30.
- Constituents of gaseous mixtures, Separation of the. C. C. Van Nuy. 2,424,201; July 15.
- Construction for collapsible tubes, Head. R. E. Paige. 2,415,906; Feb. 18.
- Construction for independently sprung wheels, Drive axle. D. G. Roos. 2,417,325; Mar. 11.
- Construction for pipe-line fittings. L. S. Hamer. 2,425,934; Aug. 19.
- Construction for shoes, Midsole. G. S. Colella. 2,419,629; Apr. 29.
- Construction for spaced wall insulated cabinets, Heat breaker strip. R. S. Buchanan. 2,425,027; Aug. 5.
- Construction for vaporizable liquid fuel, Burner. A. J. Laliberte. 2,422,686; June 24.
- Construction stage. F. H. Geary. 2,426,825; Sept. 2.
- Contact and brush, Electrical. F. R. Hensel. 2,418,710; Apr. 8.
- Contact device for calling dials. O. Tschumi. 2,424,423; July 22.
- Contact devices, Making electric. A. M. Cohen. 2,429,048; Oct. 14.
- Contact element. R. L. Adams and L. Zickrick. 2,418,811; Apr. 15.
- Contact element. P. L. Alger. 2,418,810; Apr. 15.
- Contact element. J. M. Booe. 2,417,967; Mar. 25.
- Contact element. F. Girvin. 2,418,812; Apr. 15.
- Contact element and making same, Electrical. G. W. Lambert. 2,431,334; Nov. 25.
- Contact mass materials, Regeneration of. J. W. Payne. 2,416,214; Feb. 18.
- Contact masses by gaseous suspension and delivery thereof to a downwardly moving bed, Cleaning. C. H. Lechthaler and J. W. Payne. 2,421,840; June 10.
- Contact material, Regeneration of subdivided solid. C. L. Thomas and J. T. Pinkston, Jr. 2,414,002; Jan. 7.
- Contact materials, Preparation of. T. B. Prickett and J. R. Bates. 2,415,441; Feb. 11.
- Contact means for electrically operated well tools. A. J. Zschokke. 2,427,377; Sept. 16.
- Contact member, Current collector. C. A. Thomas. 2,428,250; Sept. 30.
- Contact or connector, Electrical plug and socket spring. H. J. Modrey. 2,423,250; July 1.
- Contact structure for electric switches. H. E. Schleicher. 2,433,710; Dec. 30.
- Contact switch. E. Doucette. 2,430,215; Nov. 4.
- Contacting apparatus. E. J. Houdry. 2,418,837; Apr. 15.
- Contacting apparatus. F. L. Melvill. 2,424,248; July 22.
- Contacting device for electrical elements. M. F. Skinner. 2,426,246; Aug. 26.
- Contacting solids and gaseous fluid. C. E. Jahng. 2,425,807; Aug. 19.
- Contactor. D. Ellis and J. H. Alspach. 2,424,308; July 22.
- Contactor and relay, Shockproof. W. Schaelehl and D. Ellis. 2,425,648; Aug. 12.
- Contactor, Polarized direct-current. D. W. Exner. 2,427,719; Sept. 23.
- Contactor, Shockproof electromagnetic. R. B. Immel. 2,432,899; Dec. 16.
- Contactor system, Electrical. W. P. Lear. 2,421,947; June 10.
- Contacts for electric plug couplings, Spring. G. Wagstaff. 2,414,867; July 29.
- Contacts, Manufacturing electrical. B. E. Spiro. 2,419,469; Apr. 22.
- Contacts of which one element is silicon, Crystal. C. E. Ransley, J. W. Ryde, and S. V. Williams. 2,419,966; May 6.
- Container: *See*—
- Ammunition container.
  - Beverage carbonating and dispensing container.
  - Cheese container.
  - Chick feed container.
  - Collapsible fiberboard container.
  - Compartmented collapsible fiberboard container.
  - Compressed gas container.
  - Decorated container.
  - Dispensing container.
  - Display container.
  - Fibre container.
  - Fuel container.
  - Gun storage container.
  - Hermetically sealed container.
  - Laminated sheet heat-sealable container.
  - Liquidproof container.
  - Liquidproof paper container.
  - Match pack container.
  - Measuring and dispensing container.
  - Metal container.
  - Multiple blank paperboard container.
  - Multiwall container.
  - Nonrefillable container.
  - Powder container.
  - Precooling milking container.
  - Quick opening aerial delivery container.
  - Razor blade dispensing container.
  - Refuse collecting container.
  - Roll paper dispensing container.
  - Sanitary nursing container.
  - Screw top container.
  - Self-closing container.
  - Soap container.
  - Talisman container.
  - Telescopic container.
  - Time controlled container.
  - Toothbrush and dentifrice container.
  - Valve closed container.
  - Ventilated wood reinforced fiberboard container.
- Container. C. Barbieri. 2,416,813; Mar. 4.
- Container. G. Cope. 2,417,104; Mar. 11.
- Container. H. E. Griffith. 2,418,172; Apr. 1.
- Container. W. H. Inman. 2,419,646; Apr. 29.
- Container. S. B. Jenkins. 2,432,764; Dec. 16.
- Container. H. Kinberg. 2,428,371; Oct. 7.
- Container. F. Lobl. 2,413,721; Jan. 7.
- Container. G. A. Moore. 2,425,043; Aug. 5.
- Container. E. L. Person. 2,428,988; Oct. 14.
- Container. A. A. Richards. 2,415,260; Feb. 4.
- Container. H. Sebell. 2,415,609; Feb. 11.
- Container. C. A. Southwick, Jr. 2,428,396; Oct. 7.
- Container. R. J. White. 2,419,616; Apr. 29.
- Container. I. L. Wilcox. 2,425,708; Aug. 12.
- Container. A. B. Wilson and K. Stuart. 2,416,364; Feb. 25.
- Container and closure therefor. J. Pulvers. 2,418,367; Apr. 1.
- Container and dispenser for tape, Combined. G. Schieman. 2,414,333; Jan. 14.
- Container and dispenser, Sugar. R. C. Mackey. 2,423,784; July 8.
- Container and dispenser, Tablet. E. Ancker. 2,415,859; Feb. 18.
- Container and lighter, Combination cigarette. R. Mayer. 2,419,458; Apr. 22.
- Container and making same, Collapsible. F. La Grua. 2,431,697; Dec. 2.
- Container and reclosure therefor, Tear strip type. J. E. Socke. 2,428,392; Oct. 7.
- Container and reclosure therefor, Tear-strip type. I. D. Thornburgh. 2,430,035; Nov. 4.



- Container and reclosure therefor, Tear-strip type. I. D. Thornburgh and F. W. Goodrich. 2,430,036; Nov. 4.
- Container and scraping device therefor. R. O. Ferguson. 2,418,502; Apr. 8.
- Container and seam construction. P. M. Gilfillan. 2,422,725; June 24.
- Container construction. L. W. Hills. 2,416,693; Mar. 4.
- Container, dispenser-disposer, Cup. H. Hait. 2,418,227; Apr. 1.
- Container fill packing apparatus. M. M. Sedwick. 2,432,823; Dec. 16.
- Container for acetylene and storing acetylene, Dispensing. R. C. Bour. 2,431,675-6; Dec. 2.
- Container for aseptic filling and dispensing of sterile liquids. C. M. De Woody. 2,415,871; Feb. 18.
- Container for cosmetic tissue, Dispensing. C. L. Wentworth. 2,433,587; Dec. 30.
- Container for distributing and sorting machines. J. J. M. L. Marchand. 2,416,398; Feb. 25.
- Container for distribution of food and other products. S. C. Lehman. 2,416,332; Feb. 25.
- Container for explosives. J. E. Hodgson and E. V. Abel. 2,425,472; Aug. 12.
- Container for hydrocarbon fuels, Self-sealing. D. S. Plumb. 2,428,527; Oct. 7.
- Container for merchandise, Safety. J. A. Bentz. 2,421,678; June 3.
- Container for packing fruit and the like. J. A. McCormick. 2,426,783; Sept. 2.
- Container for spark plugs. L. F. Hahn. 2,415,589; Feb. 11.
- Container for tamales, Perforated. J. Novak. 2,433,622; Dec. 30.
- Container formed of interlocking sections, Tool. L. H. Parks. 2,419,587; Apr. 29.
- Container, Forming flanged or beaded. K. Palmer, R. E. Kugler, and H. M. Bryans. 2,425,390; Aug. 12.
- Container handle. C. Kampf. 2,427,004; Sept. 9.
- Container handle structure, Portable. H. G. Donnelly. 2,421,687; June 3.
- Container handling apparatus. E. B. Dennie. 2,423,441; July 8.
- Container having a gravity operated closure, Dispensing. L. Frank. 2,419,769; Apr. 29.
- Container having an inner slidable merchandise carrier. C. C. Vatter. 2,422,152; June 10.
- Container having closure securing means, Molded fibrous pulp. H. R. Denton. 2,418,248; Apr. 1.
- Container having interchangeable screw-threaded sections, Adjustable lined. T. F. Bennett. 2,416,142; Feb. 18.
- Container mounted pump. D. A. Benner. 2,431,534; Nov. 25.
- Container provided with fluid control means, Collapsible. F. R. Geraci. 2,426,195; Aug. 26.
- Container provided with yieldable retaining means, Expandable impact. C. P. Krupp. 2,423,940; July 15.
- Container sealing apparatus. E. M. Enkur, L. F. Pahl, and L. L. Lauve. 2,433,549; Dec. 30.
- Container sealing apparatus. W. C. Johnson. 2,425,062; Aug. 5.
- Container sealing machine. R. M. Mero. 2,433,057; Dec. 23.
- Container side seam sealing compound applying apparatus. G. L. Ardon. 2,432,707; Dec. 16.
- Container with automatic ejecting device. A.-M. A. Rault. 2,429,328; Oct. 21.
- Container with discharge passage arranged for measuring by tipping. A. Partin. 2,426,119; Aug. 19.
- Container with ejecting plunger, Dispensing. J. J. Jacobson. 2,430,718; Nov. 11.
- Container with extensions, Display. R. E. Fink. 2,426,865; Sept. 2.
- Container with inclined front opening and closure means therefor. J. Stengren. 2,422,594; June 17.
- Container with ripping opener, Reclosable. J. Coyle. 2,433,683; Dec. 30.
- Container with vent opening, Sheet metal. H. A. Fink. 2,425,609; Aug. 12.
- Containers, Cleaning. M. E. Parker and P. W. Bonewitz. 2,424,049; July 15.
- Containers, Filling and sealing. S. S. Jacobs and S. Birkland. 2,426,555; Aug. 26.
- Containers, Making. G. Bardin. 2,433,806; Dec. 30.
- Containers, Making. J. L. Coker, III. 2,415,625; Feb. 11.
- Containers, Making. D. E. Grove. 2,416,993; Mar. 4.
- Containers, Making. I. L. Wilcox. 2,415,323; Feb. 4.
- Containers, Manufacture of flexible. F. W. Blanchard. 2,426,384; Aug. 26.
- Containers of polyvinyl acetals. L. L. Leach. 2,430,065; Nov. 4.
- Containers, Salvaging deep drawn. H. A. Fink. 2,432,740; Dec. 16.
- Continuous head turning machine. K. F. Wunsch and J. E. Ferguson. 2,425,170; Aug. 5.
- Continuous rotary drum filter. T. R. Komline. 2,426,886; Sept. 2.
- Contours, Grinding. R. A. Mahlmeister. 2,419,457; Apr. 22.
- Contours in material, Producing. J. M. Fowle and H. E. Kennedy. 2,430,924; Nov. 18.
- Control. R. M. Hettinga. 2,427,103; Sept. 9.
- Control and alarm for steam boilers, Feed-water. A. G. Bloss. 2,414,629; Jan. 21.
- Control and differential gear drive for lawn mowers, Electric motor. J. M. Radabaugh. 2,417,613; Mar. 18.
- Control and drive mechanism for helicopter rotors. W. L. Sheppard. 2,428,128; Sept. 30.
- Control and energizing system for reversible air motors, Automatic pneumatic. S. E. Meyers. 2,431,187; Nov. 18.
- Control and indicator for frequency shift systems, Automatic turning. M. G. Crosby. 2,423,229; July 1.
- Control and indicator, Variable pitch propeller. R. J. Ratié. 2,417,176; Mar. 11.
- Control and motor, Torpedo propulsion. W. R. Harding, A. W. Kimball, and R. W. Moore. 2,414,523; Jan. 21.
- Control apparatus. A. E. Baak. 2,428,606; Oct. 7.
- Control apparatus. T. M. Ball. 2,424,137; July 15.
- Control apparatus. J. H. Broadbent and J. A. Lofgren. 2,417,407; Mar. 18.
- Control apparatus. S. W. Gilbert. 2,429,313; Oct. 21.
- Control apparatus. C. M. Hines. 2,428,457; Oct. 7.
- Control apparatus. R. H. Johnson. 2,420,043; May 6.
- Control apparatus. L. B. Koontz. 2,423,781; July 8.
- Control apparatus. L. Lee, II. 2,427,794; Sept. 23.
- Control apparatus. G. K. Newell. 2,417,211; Mar. 11.
- Control apparatus. C. S. Powell. 2,431,276; Nov. 18.
- Control apparatus. E. M. Smith. 2,431,281; Nov. 18.
- Control apparatus. A. P. Upton. 2,423,534; July 8.
- Control apparatus. H. A. Zeel and R. A. Vacher. 2,421,861; June 10.
- Control apparatus, Brake. J. C. McCune. 2,417,209; Mar. 11.
- Control apparatus, Condition. F. A. Busse and J. M. Wilson. 2,423,478; July 8.
- Control apparatus for electric motors, Remote. A. P. Davis and G. Agins. 2,420,817; May 20.
- Control apparatus for forced drainage. E. G. Carlson. 2,418,395; Apr. 1.
- Control apparatus for gas discharge tubes. C. J. Collom. 2,430,390; Nov. 4.
- Control apparatus for hydraulic machines. W. P. Muir. 2,420,052; May 6.
- Control apparatus for motor operated device. F. R. Farrow, Jr. 2,416,166; Feb. 18.
- Control apparatus for positioned device, Electronic. W. H. Gille, W. J. Field, and A. P. Upton. 2,425,733; Aug. 19.
- Control apparatus, Pneumatic. C. B. Moore. 2,431,297; Nov. 18.
- Control apparatus, Voltage. W. C. Anderson. 2,428,693; Oct. 7.
- Control arrangement for aircraft power units. J. J. Parkes and E. R. Durbec. 2,430,363; Nov. 4.
- Control arrangement for refrigeration apparatus. M. B. Goddard. 2,421,258; May 27.
- Control apparatus for reversible motors. F. R. Farrow, Jr. 2,417,593; Mar. 18.
- Control apparatus for reversible motors. M. G. Shoemaker. 2,416,229; Feb. 18.
- Control apparatus for reversible motors. M. G. Shoemaker. 2,424,859; July 29.
- Control apparatus for variable pitch propeller adjusting devices. J. Kopp. 2,423,191; July 1.
- Control apparatus, Humidity. W. P. Boothroyd. 2,424,735; July 29.
- Control apparatus, Time. F. H. Owens. 2,415,843; Feb. 18.
- Control apparatus, Welding. H. Purat. 2,413,783; Jan. 7.
- Control apparatus with linear motion, Continuous. M. N. Yardeny. 2,416,274; Feb. 18.
- Control arrangement for discharge devices. L. Brakel and R. T. Thompson. 2,428,008; Sept. 30.
- Control arrangement for two-way carrier telephone terminals, Ringing. W. Brandt. 2,414,795; Jan. 28.
- Control circuit. H. J. Bichsel. 2,416,144; Feb. 18.
- Control circuit. K. L. Freeman. 2,431,237; Nov. 18.
- Control circuit, Beam deflection. W. A. Fitch. 2,414,939; Jan. 28.
- Control circuits. L. A. de Rosa. 2,414,454; Jan. 21.
- Control circuits for cathode-ray apparatus. J. M. Dodds and G. J. Scoles. 2,427,263; Sept. 9.
- Control circuits, Sweep. J. W. Rieke. 2,414,486; Jan. 21.
- Control, Combination. H. E. Malone. 2,426,629; Sept. 2.
- Control device. R. C. Boyd. 2,426,919; Sept. 2.
- Control device. W. C. Buescher. 2,425,990; Aug. 19.
- Control device. M. G. Leonard. 2,417,768; Mar. 18.
- Control device. K. M. Mackay and W. J. Sims. 2,420,548; May 13.
- Control device. S. K. Malek. 2,414,754; Jan. 21.
- Control device. D. G. Taylor. 2,427,239; Sept. 9.
- Control device. L. G. Tubbs. 2,414,569; Jan. 21.
- Control device and system. F. R. Porter. 2,415,760; Feb. 11.
- Control device and system, Meter. F. G. Kelly. 2,428,229; Sept. 30.
- Control device, Centrifugal. N. H. Nye and W. E. Rogers. 2,426,840; Sept. 2.
- Control device, Clutch. E. J. Panish. 2,431,275; Nov. 18.
- Control device, Depth. D. M. Chapin. 2,414,449; Jan. 21.
- Control device, Dual time. G. Klein. 2,420,780; May 20.
- Control device, Electric. L. J. Dahline and W. J. Field. 2,416,159; Feb. 18.
- Control device, Engine. G. R. Ericson. 2,423,589; July 8.



- Control device, Fluid flow. H. Schreck. 2,417,217; Mar. 11.
- Control device, Fluid pressure. R. J. Hoffman. 2,415,674; Feb. 11.
- Control device for apparatus for recording circulatory conditions. A. L. Sheffele. 2,425,899; Aug. 19.
- Control device for closed hydraulic systems, Safety. A. A. Bell. 2,417,231; Mar. 11.
- Control device for disconnecting switches, Safety. C. P. Corey and E. R. Deming. 2,420,166; May 6.
- Control device for draft regulators. C. H. Morrow. 2,422,496; June 17.
- Control device for electrically operated machines, Safety. J. O. Kleber. 2,418,356; Apr. 1.
- Control device for forming impulses, Electronic. J. R. Mahoney and H. J. Biehse. 2,426,037; Aug. 19.
- Control device for heater circuits. J. W. McNairy, F. A. Rosenkrans, and A. E. Coombs. 2,429,475; Oct. 21.
- Control device for oil coolers. R. W. Jensen. 2,428,280; Sept. 30.
- Control device for pumping units, Liquid level. H. Goodman. 2,424,657; July 29.
- Control device for storage batteries, Electrolyte level. J. Sandusky. Re 22,833; Jan. 21.
- Control device for switches or the like. E. J. Dillman and J. E. Fleury. 2,422,292; June 17.
- Control device, Fuel. S. M. Udale. 2,429,781; Oct. 28.
- Control device having polarizing elements, Vehicular light. S. C. Hurley, Jr. 2,423,322; July 1.
- Control device, Inertia. C. L. Eksergian. 2,415,344; Feb. 4.
- Control device, Lever operated. L. Spraragen. 2,414,341; Jan. 14.
- Control device, Mixture. M. J. Kittler and C. F. Schorn. 2,417,304; Mar. 11.
- Control device, Preselection. W. P. Lear. 2,427,792; Sept. 23.
- Control device, Sprinkler. V. L. Shaw. 2,414,127; Jan. 14.
- Control device, Tail gate. H. V. Sharpe. 2,431,588; Nov. 25.
- Control device, Thermostatic. J. R. Campbell. 2,415,672; Feb. 11.
- Control device, Tracking. E. W. Chafee. 2,426,597; Sept. 2.
- Control device, Turbine. J. R. Campbell and A. G. Swenson. 2,415,673; Feb. 11.
- Control engine systems, Anti-icing. G. H. Gill. 2,414,296; Jan. 14.
- Control for air conditioning systems. C. D. Graham. 2,423,382; July 1.
- Control for aircraft, Altitude. W. C. Coulbourn. 2,432,862; Dec. 16.
- Control for aircraft, Altitude. C. A. Frische and G. N. Hanson. 2,415,092; Feb. 4.
- Control for aircraft heaters, Fuel-air mixture. A. A. Arnym. 2,418,566; Apr. 8.
- Control for airplanes, Combined flight and ground. D. R. Zuck. 2,417,725; Mar. 18.
- Control for air spring pressures in free-piston units. K. C. Cooper. 2,426,297; Aug. 26.
- Control for bombs, Directional. J. H. Homrighous. 2,432,421; Dec. 9.
- Control for burners and the like, Cyclic safety. G. D. Bower. 2,417,909; Mar. 25.
- Control for charging circuits, Electronic. M. A. Knight and J. A. Taylor. 2,425,743; Aug. 19.
- Control for combustion apparatus, Fuel supply and ignition. J. W. Miller and R. E. Fell. 2,416,766; Mar. 4.
- Control for discharge devices. G. E. Gustafson. 2,426,680; Sept. 2.
- Control for dynamoelectric machines, Electric valve. E. E. Moyer and D. Eldred. 2,431,578; Nov. 25.
- Control for electric discharge devices, Starting. M. A. Townsend. 2,425,902; Aug. 19.
- Control for electric motors, Hydraulic. E. B. Fitzgerald. 2,426,006; Aug. 19.
- Control for electric web detectors. A. C. Krukons. 2,433,128; Dec. 23.
- Control for grinder machines, Reel drive. L. Illmer. 2,424,465; July 22.
- Control for hoists, Motor. J. M. Newman. 2,421,080; May 27.
- Control for hydraulic brake fluid. S. Schnell. 2,430,955; Nov. 18.
- Control for hydraulic presses, Pressure. V. W. Peterson and O. J. Maha. 2,426,411; Aug. 26.
- Control for internal-combustion engines. M. E. Chandler. 2,432,283; Dec. 9.
- Control for internal-combustion engines. F. C. Mock. 2,429,423; Oct. 21.
- Control for knitting machines. J. J. Lentz. 2,422,738; June 24.
- Control for lighting effects. L. P. Clark. 2,421,116; May 27.
- Control for liquid fuel burners, Low and high fire. A. A. Arnym. 2,429,739; Oct. 28.
- Control for loom handwheels. V. F. Sepavich. 2,414,174; Jan. 14.
- Control for machines, Air operated. W. C. Ewaldson. 2,429,261; Oct. 21.
- Control for motion reproducing devices, Synchronizing. W. H. Newell. 2,427,154; Sept. 9.
- Control for motor vehicles, Window. E. C. Horton. 2,418,031; Mar. 25.
- Control for motors, Electronic. K. P. Puchlowski. 2,422,567; June 17.
- Control for photographic enlargers and printers, Contrast. A. Simmon and L. L. Weisglass. 2,414,338; Jan. 14.
- Control for planers and the like, Electric. J. E. Doran. 2,422,476; June 17.
- Control for plural electric motors, Unitary. J. Mercier. 2,422,117; June 10.
- Control for power presses and the like, Fluid operated safety. J. Chochol. 2,423,482; July 8.
- Control for refrigeration systems, Thermostatic. B. E. Shaw. 2,419,376-7; Apr. 22.
- Control for rotor blades, Pitch. H. Hirsch. 2,430,767; Nov. 11.
- Control for seismograph amplifiers, Automatic volume. R. G. Piety. 2,430,246; Nov. 4.
- Control for servo mechanism. W. A. Tolson. 2,421,663; June 3.
- Control for synchronized pump motors. H. H. Curry. 2,430,917; Nov. 18.
- Control for variable frequency oscillators, Automatic amplitude. R. D. Scheidorf. 2,424,905; July 29.
- Control for variable pitch propellers. G. F. Drake. 2,424,559; July 29.
- Control for Ward Leonard systems, Speed. E. U. Lassen. 2,433,130; Dec. 23.
- Control head packer. R. G. Taylor, Jr., and D. B. Hooser. 2,430,623; Nov. 11.
- Control instrument. C. H. Smoot. 2,427,235; Sept. 9.
- Control linkage, Variable leverage. W. W. Beman. 2,423,959; July 15.
- Control means for automatic regulating mechanism. E. E. Harper. 2,422,352; June 17.
- Control means for calculating machines, Operation. E. F. Britten, Jr. 2,419,760; Apr. 29.
- Control means for electrical generating systems, Automatic. H. F. Kaelin. 2,427,462; Sept. 16.
- Control means for helicopters. R. R. Hays. 2,418,407; Apr. 1.
- Control means for helicopters. R. R. Hays and C. K. Razak. 2,414,258; Jan. 14.
- Control means for power generating systems. H. Ziebolz. 2,433,725; Dec. 30.
- Control means for pressure cookers and the like. H. L. Newell. 2,422,974; June 24.
- Control means for self-acting buckets, Electric. P. J.-M. T. Allard. 2,429,903; Oct. 28.
- Control means for sequentially and selectively adjusting variable reactances over a band of frequencies. M. A. Wolff. 2,433,805; Dec. 30.
- Control means for tractor-connected implements. R. D. Acton. Re 22,932; Nov. 11.
- Control means for variable-speed vehicle driving mechanisms. E. J. de Normanville. 2,433,099; Dec. 23.
- Control means for washing machines, Liquid overflow. H. F. Bariffi. 2,432,271; Dec. 9.
- Control mechanism. C. A. Arens. 2,430,418; Nov. 4.
- Control mechanism. E. P. Bullard, III. 2,427,493; Sept. 16.
- Control mechanism. G. T. Hart, Jr. 2,423,935; July 15.
- Control mechanism. R. E. Haselberger. 2,427,211; Sept. 9.
- Control mechanism. O. B. Vetter. 2,429,083; Oct. 14.
- Control mechanism, Carriage position. H. M. Dustin. 2,428,206; Sept. 30.
- Control mechanism, Drive. G. J. Huebner, Jr. 2,418,838; Apr. 15.
- Control mechanism, Drive. C. A. Sylvander. 2,431,149; Nov. 18.
- Control mechanism, Electrically operated pitch. H. H. Roby and G. W. Jones. 2,427,813; Sept. 23.
- Control mechanism, Elevator car door. J. Di Giovanni. 2,432,293; Dec. 9.
- Control mechanism, Fluid pressure. W. A. Eaton. 2,415,128; Feb. 4.
- Control mechanism, Fluid pressure. E. R. Fitch. 2,416,091; Feb. 18.
- Control mechanism for aircraft. A. J. Schubert. 2,418,369; Apr. 1.
- Control mechanism for camera motors. C. V. Johnson and W. G. Herbstreit. 2,424,276; July 22.
- Control mechanism for coal washing jigs, Retarded float. R. M. Norton. 2,421,576; June 3.
- Control mechanism for dispensing apparatus. C. R. Manning. 2,431,058; Nov. 18.
- Control mechanism for drilling machines. I. F. Churchill. 2,418,220; Apr. 1.
- Control mechanism for fog generating machines, Fuel. A. W. Ruff. 2,418,098; Mar. 25.
- Control mechanism for gun training apparatus. L. S. Linderth, Jr. 2,425,433; Aug. 12.
- Control mechanism for helicopters having coaxial counter-rotating rotors. N. B. Wales, Jr. 2,427,936; Sept. 23.
- Control mechanism for hydraulic transmission. W. R. Tucker. 2,420,155; May 6.
- Control mechanism for machine tools, Work. B. S. T. Bishop and F. A. Bicknell. 2,420,296; May 13.
- Control mechanism for molding presses. C. Roehrl. 2,416,406; Feb. 25.
- Control mechanism for regulating flow of fluid pressure in hydraulic systems. B. Japikse. 2,426,509; Aug. 26.



- Control mechanism for reversible electric motors. G. W. Jackson. 2,422,905; June 24.
- Control mechanism for vehicle steering gear, Fluid pressure. W. A. Eaton. 2,424,806; July 29.
- Control mechanism for washing machines. H. F. Bariffi. 2,432,272; Dec. 9.
- Control mechanism for weft replenishing looms, Thread. R. G. Turner. 2,416,803; Mar. 4.
- Control mechanism, Helicopter rotor pitch. H. Hirsch. 2,418,030; Mar. 25.
- Control mechanism, Reeling. E. G. Parvin. 2,417,780; Mar. 18.
- Control mechanism, reversing. E. J. Panish. 2,433,235; Dec. 23.
- Control mechanism, Selective-position. E. J. Stein. 2,432,349; Dec. 9.
- Control mechanism, Unwinder. T. J. Finn. 2,417,818; Mar. 25.
- Control mechanisms for fluid storage apparatus, Pressure. J. H. Wiggins. 2,415,322; Feb. 4.
- Control method and arrangement for a two temperature refrigerator using a capillary expansion device. G. Muffy. 2,425,634; Aug. 12.
- Control network. E. L. Harder. 2,426,018; Aug. 19.
- Control of alternating current-direct current motor-generating set, Automatic. R. R. Dysart. 2,427,127; Sept. 9.
- Control of catalytic processes using mobile catalysts. T. B. Hudson. 2,429,161; Oct. 14.
- Control of electrolytic processes. W. G. Cook. 2,427,661; Sept. 23.
- Control of electrolytic processes. J. R. Erbe. 2,427,771; Sept. 23.
- Control of machine tools and fabricating devices. Automatic. L. E. De Neergaard. 2,423,440; July 8.
- Control of signal power in a signal transmission circuit. J. J. Bollman. 2,426,589; Sept. 2.
- Control regulation of light intensity on camera tube, Automatic volume. W. J. Poch. 2,431,824; Dec. 2.
- Control scheme, Series generator and motor drive. W. R. Harding and R. W. Moore. 2,416,175; Feb. 18.
- Control structure. L. B. Wagner. 2,425,447; Aug. 12.
- Control switch. E. D. Reiber. 2,426,051; Aug. 19.
- Control system. E. G. Bailey and P. S. Dickey. 2,417,049; Mar. 11.
- Control system. G. L. Borell. 2,422,162; June 10.
- Control system. E. S. Bristol. 2,420,415; May 13.
- Control system. W. G. Cook. 2,432,861; Dec. 16.
- Control system. L. L. Cunningham. 2,424,304; July 22.
- Control system. F. G. da Roza and K. Sarafian. 2,430,213; Nov. 4.
- Control system. E. T. Davis. 2,424,305; July 22.
- Control system. F. P. Elliott. 2,431,381; Nov. 25.
- Control system. W. H. Formhals and F. C. Fennell. 2,432,876; Dec. 16.
- Control system. W. H. Formhals and G. E. King. 2,414,516; Jan. 21.
- Control system. R. A. Geiselman and J. P. Houck. 2,422,539; June 17.
- Control system. E. L. Harder and H. M. Rustebakke. 2,428,566; Oct. 7.
- Control system. L. J. Hibbard. 2,417,754; Mar. 18.
- Control system. W. L. McGrath. 2,429,695; Oct. 28.
- Control system. T. H. Petch, Jr., and H. W. C. Liddiard. 2,419,462; Apr. 22.
- Control system. M. Rebuffoni. 2,427,744; Sept. 23.
- Control system. O. C. Walley. 2,420,922; May 20.
- Control system, Airplane. T. S. Holmes. 2,424,889; July 29.
- Control system, Airway traffic. S. N. Wight and O. S. Field. 2,421,106; May 27.
- Control system and telemetering circuit. W. A. Derr. 2,420,871; May 20.
- Control system, Automatic. P. A. Noxon. 2,432,036; Dec. 2.
- Control system, Auxiliary engine. H. L. Lauver and D. D. Ormsby. 2,427,863; Sept. 23.
- Control system, Closure operator. J. F. Cook. 2,424,385; July 22.
- Control system, Commutating field. C. L. Phillips. 2,427,574; Sept. 16.
- Control system, Continuous balance motor. K. Rath. 2,423,617; July 8.
- Control system, Electric. F. D. Van Lew. 2,420,577; May 13.
- Control system, Electric fence impulse. L. E. Greenlee. 2,422,012; June 10.
- Control system, Electric horn. J. M. Aufiero. 2,420,807; May 20.
- Control system, Electric motor. J. W. Conklin. 2,423,228; July 1.
- Control system, Electric motor. A. F. Kenyon and W. G. Cook. 2,416,180; Feb. 18.
- Control system, Electric motor. A. W. Schmitz and B. P. Chausse. 2,416,597; Feb. 25.
- Control system, Electric motor position. F. L. Moseley. 2,414,384; Jan. 14.
- Control system, Electrical. A. B. Christensen. 2,423,683; July 8.
- Control system, Electrical. P. Halpert, C. A. Frische, J. L. Bird, and O. E. Esval. 2,415,819; Feb. 18.
- Control system, Electrohydraulic position. W. R. Brant. 2,413,907; Jan. 7.
- Control system, Electronic amplifier. C. L. Frederick and R. C. Curtis. 2,432,878; Dec. 16.
- Control system, Electrooptical. R. R. Blair. 2,432,084; Dec. 9.
- Control system, Electropneumatic. H. E. Kennedy. 2,423,190; July 1.
- Control system, Engine combustion air. A. F. Matthews, R. D. McClure, Jr., and E. Siroky. 2,429,208; Oct. 21.
- Control system, Fire. G. E. White. 2,419,239; Apr. 22.
- Control system, Flood. E. F. Howe. 2,421,066; May 27.
- Control system, Fluid. N. A. Christensen. 2,414,451; Jan. 21.
- Control system, Fluid-operated. W. W. Sloane. 2,415,915; Feb. 18.
- Control system, Fluid operated. J. J. Slomer. 2,417,524; Mar. 18.
- Control system, Follow-up. E. F. W. Alexanderson. 2,414,919; Jan. 28.
- Control system, Follow-up. E. F. W. Alexanderson, M. A. Edwards, and K. K. Bowman. 2,414,685; Jan. 21.
- Control system, Follow-up. M. A. Edwards. 2,414,689; Jan. 21.
- Control system, Follow-up. M. A. Edwards and H. M. Ogle. 2,414,936; Jan. 28.
- Control system, Follow-up. S. Godet. 2,416,579; Feb. 25.
- Control system, Follow-up. B. J. Fisher, Jr. 2,432,302; Dec. 9.
- Control system for aircraft, Fluid pressure. W. A. Eaton. 2,430,808; Nov. 11.
- Control system for aircraft turbosuperchargers. M. A. Edwards and H. M. Ogle. 2,425,607; Aug. 12.
- Control system for airplanes. G. W. Cornelius. 2,420,932; May 20.
- Control system for automatic selector mechanism. O. L. MacSorley. 2,431,408; Nov. 25.
- Control system for circuit breakers, Ignitron. W. E. Pakala. 2,432,927; Dec. 16.
- Control system for circuit breakers, Local and remote. H. B. Wortman. 2,432,959; Dec. 16.
- Control system for dynamoelectric machines, Electronic. J. L. Stratton. 2,430,310; Nov. 4.
- Control system for dynamometers, Quick response. R. L. Findley and J. R. Wrathall. 2,417,745; Mar. 18.
- Control system for electric drives. G. E. King. 2,416,181; Feb. 18.
- Control system for electric hoists. W. Schaelchlin and K. Mahnke. 2,424,255; July 22.
- Control system for fuel burners, Safety. C. K. Strobel. 2,417,667; Mar. 18.
- Control system for fuel burners, Safety and ignition. C. K. Strobel. 2,430,373; Nov. 4.
- Control system for furnace electrode feed. T. B. Montgomery. 2,427,617; Sept. 16.
- Control system for hydraulic circuits. W. Becker. 2,424,300; July 22.
- Control system for hydraulic hoist. H. Randolph and G. A. Kane. 2,419,367; Apr. 22.
- Control system for hydraulic motors. T. F. Stacy. 2,419,235; Apr. 22.
- Control system for hydraulic presses. W. Becker. 2,417,858; Mar. 25.
- Control system for hydraulic presses. G. A. Waldie and J. A. Muller. 2,415,053; Jan. 28.
- Control system for machine tools and the like, Hydraulic. M. A. Mathys. 2,427,970; Sept. 23.
- Control system for parallel-connected-hydraulic motors, Hydraulic constant speed. J. A. Muller and W. R. Tucker. 2,415,603; Feb. 11.
- Control system for presses, Temperature responsive. H. J. Stocker. 2,432,215; Dec. 9.
- Control system for pulse modulation receivers, Gain. H. A. Wheeler. 2,421,136; May 27.
- Control system for radio receivers. C. E. Atkins. 2,424,216; July 22.
- Control system for reducing wheel slippage. L. Lentz, Jr. 2,428,574; Oct. 7.
- Control system for series-parallel motor operation. T. L. Weybrew. 2,426,075; Aug. 19.
- Control system for switches for trolley vehicles, Manual. R. P. Hanna and N. J. Rosen. 2,432,882; Dec. 16.
- Control system for synchronous dynamoelectric machines. G. L. Godwin. 2,428,564; Oct. 7.
- Control system for two-phase induction motors. J. E. Tarr. 2,429,651; Oct. 28.
- Control system for winch drives. K. Mahnke. 2,414,473; Jan. 21.
- Control system, Frequency. W. E. Phillips. 2,431,501; Nov. 25.
- Control system, Frequency. C. C. Stotz. 2,425,013; Aug. 5.
- Control system, Frequency responsive. J. B. Reeves. 2,425,047; Aug. 5.
- Control system, Handle. H. L. Hull, W. C. Hartman, and R. C. Goertz. 2,414,102; Jan. 14.
- Control system, Matched potential electrical. H. F. Herbig. 2,428,024; Sept. 30.
- Control system, Multiplex. E. S. Purington. 2,424,900; July 29.
- Control system, Plural series alternating current motor. L. J. Hibbard. 2,417,755; Mar. 18.
- Control system, Position. A. P. Davis. 2,420,816; May 20.
- Control system, Positional. M. A. Edwards. 2,414,690; Jan. 21.



- Control system, Power rectifier. H. Bany and A. W. Bateman. 2,427,543; Sept. 16.
- Control system, Pulse echo. A. V. Bedford. 2,422,068; June 10.
- Control system, Pulse-echo. A. V. Bedford. 2,422,333; June 17.
- Control system, Self-synchronizing tube discharge. A. Vang. 2,432,219; Dec. 9.
- Control system, Self-synchronous positional. E. J. Isbister and F. L. Moseley. 2,424,568; July 29.
- Control system, Slat and flat. F. E. Flader, F. Lakowitz, and F. Steele. 2,422,296; June 17.
- Control system, Tank heater. C. M. Osterheld. 2,415,525; Feb. 11.
- Control system, Timing. G. E. Undy. 2,415,896; Feb. 4.
- Control system, Timing. G. E. Undy. 2,420,919; May 20.
- Control system, Ultra-high frequency. M. D. Fiske. 2,416,168; Feb. 18.
- Control system, Ultra high frequency. M. D. Fiske and C. G. Suits. 2,413,963; Jan. 7.
- Control system, Vehicle headlight. F. Willis, Jr. 2,423,278; July 1.
- Control system, Well. P. E. Lehr. 2,425,193; Aug. 5.
- Control system with gas discharge tube. P. J. Cade. 2,429,451; Oct. 21.
- Control unit for hydraulic servomotors. P. Halpert and C. A. Frische. 2,426,608; Sept. 2.
- Control unit, Power. S. S. Moore. 2,429,366; Oct. 21.
- Control valve. J. A. Muller. 2,422,119; June 10.
- Control valve. E. R. Price. 2,429,194; Oct. 14.
- Control valve device. R. R. Stevens and H. M. Linhart. 2,426,065; Aug. 19.
- Controller and indicator for brief electric currents. V. Guillemin, Jr. 2,433,513; Dec. 30.
- Controller for induction motors. E. Pell. 2,421,431; June 3.
- Controller for mobile glow discharge system. H. C. Mettler. 2,423,814; July 8.
- Controller for multiunit machines, Electric. A. J. Horton and W. C. Wiekling. 2,423,028; June 24.
- Controller for polyphase alternating current motors. E. Pell and N. L. Schmitz. 2,433,153; Dec. 23.
- Controller for uniformly feeding unit articles, Hopper. S. C. Hurley, Jr. 2,433,560; Dec. 30.
- Controller, Sequence. J. E. Collins. 2,421,481; June 3.
- Controlling apparatus, Condition. J. M. Wilson. 2,420,578; May 13.
- Controlling apparatus, Condition. J. M. Wilson and F. A. Busse. 2,423,541; July 8.
- Controlling apparatus, Electric. F. G. Logan. 2,432,244; Dec. 9.
- Controlling conductance of an electronic circuit, Method and apparatus for. W. A. Gieseke. 2,426,734; Sept. 2.
- Controlling device, Circuit. H. T. Sparrow and B. Cyr. 2,420,105; May 6.
- Controlling device for horses. J. D. Telford. 2,426,716; Sept. 2.
- Controlling inductive heating. F. S. Denneen and W. C. Dunn. 2,414,141; Jan. 14.
- Controlling mechanism. H. B. Brown. 2,424,551; July 29.
- Controls for isomerization systems. N. Fragen and C. W. Nysewander. 2,414,371; Jan. 14.
- Conversion apparatus. J. D. Akerman and J. F. Piccard. 2,423,631; July 8.
- Conversion apparatus, Electronic power. A. Schmidt, Jr. 2,419,464; Apr. 22.
- Conversion of hydrosulfides to neutral sulfur compounds. L. C. Fetterly. 2,432,301; Dec. 9.
- Conversion system. J. L. Boyer and H. A. Rose. 2,428,543; Oct. 7.
- Conversion system. R. L. Longini. 2,431,262; Nov. 18.
- Converter. E. S. Tolmie. 2,427,111; Sept. 9.
- Converter and fluid coupling, Hydraulic turbine type torque. V. H. Pavlecka. 2,416,948; Mar. 4.
- Converter, Arc-welding. M. Morrison. 2,429,273; Oct. 21.
- Converter, Catalytic. T. B. Prickett and R. C. Lassiat. 2,432,543; Dec. 16.
- Converter construction and control. H. O. Schjolln. 2,420,914; May 20.
- Converter, Electric frequency. B. Schwarz. 2,420,266; Converter, Electronic. C. H. Willis. 2,419,466; Apr. 22. May 6.
- Converter, Mercury vapor current. H. Mees. 2,432,433; Dec. 9.
- Converter of the space-resonant type, Ultrahigh frequency. E. D. McArthur. 2,418,518; Apr. 8.
- Converter, Phase. T. T. Short. 2,423,348; July 1.
- Converter system. P. J. Walsh. 2,417,622; Mar. 18.
- Convertible and demountable gymnastic chair. N. B. Masterson and E. A. Gould. 2,429,939; Oct. 28.
- Convertible garden tool. M. Brandt. 2,429,120; Oct. 14.
- Convertible music stand. R. Lisenbee. 2,423,034; June 24.
- Convertible packing box. C. K. Keath. 2,413,874; Jan. 7.
- Convertible railway car. C. E. Newton. 2,419,498; Apr. 22.
- Convertible vacuum cleaner. M. W. Fraser. 2,419,490; Apr. 22.
- Convertible vehicle. T. F. Spackman. 2,414,214; Jan. 14.
- Conveyance of articles in glass working apparatus, Method and apparatus for the. A. F. Casler and J. J. Salo. 2,427,712; Sept. 23.
- Conveyor; See—  
Conveyor.  
Pick-up conveyor.  
Conveyor. J. R. Nalbach. 2,414,164; Jan. 14.  
Conveyor. J. A. Porter. Re. 22,843; Feb. 18.  
Conveyor. V. A. Rayburn and D. C. Robson. 2,431,618; Nov. 25.  
Conveyor and unloading apparatus. R. T. Adams and J. A. Wagner. 2,426,169; Aug. 26.  
Conveyor, Apron. J. E. McBride. 2,416,634; Feb. 25.  
Conveyor control system. G. E. Dake and E. F. Speiden. 2,421,056; May 27.  
Conveyor, Endless pusher. H. L. Watkins and B. M. Honeycutt. 2,424,292; July 22.  
Conveyor for baker's ovens. K. D. Loose and C. W. Watkins. 2,429,100; Oct. 14.  
Conveyor for coating machines, Rotary. R. S. Dorff. 2,417,472; Mar. 18.  
Conveyor for concrete, Mobile. J. M. Lacivita. 2,430,937; Nov. 18.  
Conveyor for fish canning machines. J. P. Jakob. 2,422,198; June 17.  
Conveyor frame structure. F. J. Cozzoli. 2,417,633; Mar. 18.  
Conveyor guard clamp. R. C. Lyons. 2,433,772; Dec. 30.  
Conveyor, Hook. C. Rousseau. 2,424,055; July 15.  
Conveyor mechanism. G. G. Hyde. 2,413,767; Jan. 7.  
Conveyor mechanism, Can arranging. C. M. Hesson. 2,417,753; Mar. 18.  
Conveyor mechanism, Crop. M. Ronning. 2,421,037; May 27.  
Conveyor mechanism for harvester threshers. S. D. Pool and E. O. Engvall. 2,427,876; Sept. 23.  
Conveyor, Shaker. L. D. Hagenbook. 2,424,394; July 22.  
Conveyor structure for dehydrating foods, Heated endless. C. Birdseye. 2,414,580; Jan. 21.  
Conveying and processing apparatus. R. M. Carrier, Jr. Re. 22,904; Aug. 12.  
Conveying apparatus. P. R. Hornbrook. 2,418,302; Apr. 1.  
Conveying means. C. B. Lynch. 2,416,763; Mar. 4.  
Conveying mechanism for husking rolls. N. F. Andrews. 2,431,016; Nov. 18.  
Conveying system and conveyor therefor. G. H. Leef. 2,433,131; Dec. 23.  
Conveyor; See—  
Conveyor.  
Conveyor. R. A. Brady. 2,425,860; Aug. 19.  
Conveyor. A. R. and J. B. Long. 2,420,085; May 6.  
Conveyor and dispenser, Section spool. G. F. Benn. 2,422,768; June 24.  
Conveyor and drive. D. Kline and E. M. Plett. 2,430,720; Nov. 11.  
Conveyor, Apron. J. B. Webb. 2,428,507; Oct. 7.  
Conveyor, Bottle. E. H. Goldacker. 2,422,726; June 24.  
Conveyor, Chain. C. H. Hall. 2,426,998; Sept. 9.  
Conveyor, Chain. K. F. Wrangell. 2,417,723; Mar. 18.  
Conveyor, Flight. H. W. Hapman. 2,429,549; Oct. 21.  
Conveyor for condensers, Rotary. E. L. Sutter. 2,429,496; Oct. 21.  
Conveyor for handling match combs. R. S. Pullen. 2,426,414; Aug. 26.  
Conveyor for heat-treating apparatus. E. E. Isgren and N. Dirks. 2,419,559; Apr. 29.  
Conveyor for packaging machines. F. A. Lobley, W. T. Williams, and W. E. Lowell. 2,424,103; July 15.  
Conveyor, Marquee letter. H. W. Moreland, Jr. 2,416,340; Feb. 25.  
Conveyor mechanism for portable grinding mills. T. D. Kidd. 2,420,247; May 6.  
Conveyor, Portable. E. H. Ensinger. 2,430,282; Nov. 4.  
Conveyor, Portable mine. J. C. Cooley. 2,428,513; Oct. 7.  
Conveyor, Portable screw. A. W. Lewis and W. Glantz. 2,425,681; Aug. 12.  
Conveyor system. S. L. Knox. 2,427,057; Sept. 9.  
Conveyor system, Bucket. H. W. Hapman. 2,426,304; Aug. 26.  
Conveyor, Variable width. M. Lipton. 2,432,024; Dec. 2.  
Conveyor, Wheeled. R. H. O'Brien. 2,430,945; Nov. 18.  
Conveyor with air nozzle sorting apparatus. C. and A. Luzietti and F. A. Marini. 2,417,878; Mar. 25.  
Conveyor with radially movable ejectors for feeding powdery materials, Rotary. W. D. W. Richman. 2,429,296; Oct. 21.  
Conveyors, Side-loading attachment for shaking. A. C. Wilson. 2,427,080; Sept. 9.  
Cooker. R. Groethen. 2,419,261; Apr. 22.  
Cooker and control therefor, Pressure. T. E. Graves. 2,424,393; July 22.  
Cooker, Deep well. A. Barnsteiner. 2,416,140; Feb. 18.  
Cooker, Egg. H. Navon. 2,425,199; Aug. 5.  
Cooking and seasoning hard crabs. D. Barrett. 2,420,063; May 6.  
Cooking apparatus, Electrical. J. W. Myers. 2,419,083; Apr. 15.  
Cooking apparatus, Electrical surface. J. W. Myers. 2,424,412; July 22.  
Cooking or processing apparatus. W. W. Wagner. 2,428,481; Oct. 7.  
Coolant conditioning system. N. W. Morse. 2,425,703; Aug. 12.  
Coolant pump. J. De W. Gray. 2,432,004; Dec. 2.



- Cooler: See—  
 Blast furnace cooler. Oil cooler.  
 Dry air cooler. Portable cooler.  
 Forced air bottle cooler. Reinforced elliptical oil  
 Liquid cooler. cooler.  
 Milk cooler. Vehicle cooler.
- Cooler and exhaust tubulation for external anode electrode tubes. M. E. Wolfe. 2,422,872; June 24.  
 Cooler having overlapping replaceable grates. J. B. Gaffney. 2,431,799; Dec. 2.  
 Cooling and internal-combustion engine. A. L. M. A. Rouy. 2,417,448; Mar. 18.  
 Cooling and lubricating means for sewing machines. S. Zonis. 2,417,403; Mar. 11.  
 Cooling apparatus. A. J. Blum. 2,424,792; July 29.  
 Cooling apparatus for heat-treated work using air jets. W. Lehrer. 2,422,105; June 10.  
 Cooling apparatus, Water. H. W. Taylor. 2,418,994; Apr. 15.  
 Cooling by spraying a cooled liquid. J. W. Chamberlain. Re. 22,917; Sept. 23.  
 Cooling device for ironing machines. W. J. Asher. 2,431,448; Nov. 25.  
 Cooling device for the oil systems of internal-combustion engines. W. E. Green and W. F. F. Martin-Hurst. 2,433,451; Dec. 30.  
 Cooling device of internal combustion engines. G. Levesque du Rostu. 2,417,591; Mar. 18.  
 Cooling fin structure. W. B. Bronander. 2,417,629; Mar. 18.  
 Cooling means for engines. R. W. Dittmar. 2,413,753; Jan. 7.  
 Cooling means for gas turbine wheels. D. D. Streid. 2,414,840-1; Jan. 28.  
 Cooling system, Engine. M. Piry. 2,424,416; July 22.  
 Cooling system for internal-combustion engine. F. S. Wilcox. 2,418,385; Apr. 1.  
 Cooling system for machine tools. C. F. Charlton and M. A. Palmer, Jr. 2,426,817; Sept. 2.  
 Cooling system for transformers. R. H. Cook. 2,419,439; Apr. 22.  
 Cooling unit. I. T. Holihan. 2,419,234; Apr. 22.  
 Cooling unit. C. R. Papay. 2,425,119; Aug. 5.  
 Cooling unit. D. L. Spender. 2,419,233; Apr. 22.  
 Copals, Purification of. S. Lipsius. 2,421,952; June 10.  
 Copolymer of butadiene and styrene having dispersed therein paracoumarone resin and filler, Vulcanizate of. T. A. Bulfant. 2,426,165; Aug. 26.  
 Copolymer of butadiene and styrene with amorphous silica and product thereof, Compounding rubbery. G. von Stroh. 2,428,252; Sept. 30.  
 Copolymer of divinyl benzene and diethyl fumarate. G. F. D'Allelo. 2,420,109; Nov. 4.  
 Copolymer of styrene and polyester of endomethylene tetrahydrophthalic acid and a glycol. H. L. Gerhart. 2,421,876; June 10.  
 Co-polymer of vinyl chloride and vinyl acetate in a ketone and hydrocarbon dispersant, Dispersing. C. I. Spessard. 2,427,513; Sept. 16.  
 Copolymerizates of acrylonitrile and other mono-ethylene monomers, Preparing molecularly oriented. G. F. D'Allelo. 2,417,294; Mar. 11.  
 Co-polymerizing monoethylene hydrocarbons with compounds of the maleic anhydride type. C. A. Vana. 2,430,313; Nov. 4.  
 Copolymers of acrolein and methacrolein with acrylic compounds. H. T. Neher and C. F. Woodward. 2,416,536; Feb. 25.  
 Copolymers of acrylonitrile, a saturated monohydric alcohol ester of an ethylene alpha beta dicarboxylic acid, and acrylic esters or vinyl ethers, Molecularly oriented. G. F. D'Allelo. 2,426,728; Sept. 2.  
 Copolymers of acrylonitrile, a vinyl aryl compound, and acrylic esters or ethers, Molecularly oriented. G. F. D'Allelo. 2,417,293; Mar. 11.  
 Copolymers of acrylonitrile, butadiene 1,3 and a vinyl ether, Preparing a molecularly oriented. G. F. D'Allelo. 2,425,086; Aug. 5.  
 Copolymers of alkyl aconitates and vinyl chloride. F. W. Cox. 2,419,122; Apr. 15.  
 Copolymers of diallyl maleate and saturated monohydric alcohol esters of maleic and fumaric acids. G. F. D'Allelo. 2,431,374; Nov. 25.  
 Copolymers of diene and an alpha-substituted beta-halo acrylonitrile. A. M. Clifford and J. G. Lichty. 2,428,907; Oct. 14.  
 Copolymers of divinyl benzene and monohydric alcohol esters of itaconic acid. G. F. D'Allelo. 2,431,373; Nov. 25.  
 Copolymers of fluoro-1,3-butadiene and an alkenylethynyl carbinol. W. E. Mochel. 2,426,560; Aug. 26.  
 Copolymers of higher butadienes. C. E. Boord. 2,414,012; Jan. 7.  
 Copolymers of 2-halogeno-allyl-alcohol or 2-halogeno-allyl esters. W. O. Kenyon and J. H. Van Campen. 2,419,221; Apr. 22.  
 Copolymers of vinyl thioesters and esters of 1,4-butenedioic acids. L. M. Richards. 2,418,426; Apr. 1.  
 Copper compounds of mercaptans derived from camphene. A. L. Fox. 2,414,035; Jan. 7.  
 Copper cleaning composition. E. M. Terry and M. Kaplan. 2,428,804; Oct. 14.  
 Copper fungicide solutions, Preparing. L. Roon. 2,423,619; July 8.  
 Copper fungicides and producing same. A. A. Nikitin. 2,414,660-1; Jan. 21.  
 Copper-nicotine compounds and preparing same, Oil-soluble. C. R. Smith. 2,414,213; Jan. 14.  
 Copper, Refining. H. M. Shepard and J. H. Bryan. 2,421,582; June 3.  
 Copper with vinyl resins, Coating. G. M. Powell, 3d, and E. F. Carlston. 2,417,885; Mar. 25.  
 Copperas, Roasting. A. W. Whitford. 2,433,498; Dec. 30.  
 Cops in ring spinning and ring doubling machines, Production of. F. Preysch. 2,421,908; June 10.  
 Copyholder. A. E. Schubert and J. C. Haelen. 2,418,670; Apr. 8.  
 Copyholder for holding books or sheets. L. A. V. Rozas. 2,433,159; Dec. 23.  
 Copy sheet moistening means for duplicating machines. A. J. Levenhagen. 2,416,449; Feb. 25.  
 Copying device. W. Schindler. 2,422,137; June 10.  
 Cord adjusting and storage reel. G. W. Eypper. 2,429,675; Oct. 28.  
 Cord lengths, Method and apparatus for producing banded. E. T. Ward. 2,429,537; Oct. 21.  
 Cord manufacturing apparatus. R. T. Adams and J. A. Wagner. 2,415,399; Feb. 11.  
 Cord, Retractable. A. R. Kemp and C. A. Webber. 2,413,715; Jan. 7.  
 Cord winder. A. H. Beede. 2,428,446; Oct. 7.  
 Core construction for electromagnet apparatus. L. Mauere. 2,431,950; Dec. 2.  
 Core covering apparatus with tension controlling and stopping means. G. P. Adams. 2,425,977; Aug. 19.  
 Core for electrical devices. J. C. Granfield. 2,433,660; Dec. 30.  
 Core grinder. J. A. Rosmait. 2,414,560; Jan. 21.  
 Core, Magnetizable. F. J. Sigmund and W. S. Hlavin. 2,422,591; June 17.  
 Core, Powdered iron magnetic. A. F. Mittermaier. 2,419,847; Apr. 29.  
 Core recovering device. C. F. Duffield. 2,422,955; June 24.  
 Cores for casting light metal alloys, Making. L. S. Meyer. 2,422,118; June 10.  
 Coring device for fruits and vegetables. W. E. J. R., and G. W. Urschel. 2,414,493; Jan. 21.  
 Coring mechanism, Tomato. T. M. Kane, Sr. 2,433,125; Dec. 23.  
 Corn cutter. A. E. Skolrud. 2,415,114; Feb. 4.  
 Corn detasselling machine. E. Sawtell. 2,427,746; Sept. 23.  
 Corneal aligning means for trial frame. W. F. Peck and A. A. Gradsar. 2,432,676; Dec. 16.  
 Cornhusking unit for multiple row corn pickers, Dual. A. E. W. Johnson and B. M. Hyman. 2,420,543; May 13.  
 Corner finishing tool. R. G. Ames. 2,420,062; May 6.  
 Corner paper cutter. V. Galazin. 2,414,408; Jan. 14.  
 Corner unit and its manufacture. H. K. Piper. 2,429,192; Oct. 14.  
 Corrosion in ferrous metal pipe lines carrying refined petroleum distillates, Prevention of. A. A. Anderson. 2,422,515; June 17.  
 Corrosion in hydrogen fluoride catalytic organic reactions, Prevention of. A. Wachter. 2,431,715; Dec. 2.  
 Corrosion, Inhibiting. P. L. Menaul. 2,426,318; Aug. 26.  
 Corrosion inhibiting compositions. G. F. Rouault. 2,430,951; Nov. 18.  
 Corrosion inhibitors—nitrite salts of secondary amines. A. Wachter and N. Stillman. 2,419,327; Apr. 22.  
 Corrosion preventive composition. G. L. Doelling. 2,420,127; May 6.  
 Corrosion preventive compositions. P. R. McCarthy and E. S. Francis. 2,433,572; Dec. 30.  
 Corrosion protecting compositions. F. F. Farley. 2,426,496; Aug. 26.  
 Corrosive action of Friedel-Crafts type catalyst, Reducing. W. Kiersted, Jr. 2,426,693; Sept. 2.  
 Corrosive action of Friedel-Crafts type catalysts, Reduction of. W. R. Smith and W. F. Glassmire. 2,420,386; May 13.  
 Cosmetic preparation containing triethanol amine salts of sulfurized fatty acids. F. E. Dearborn. 2,427,717; Sept. 23.  
 Costume. L. S. Blair. 2,423,170; July 1.  
 Cot for textile rolls, Heat dissipating. A. J. Maino. 2,421,426; June 3.  
 Cot, Spinning. E. L. Luaces. 2,426,227; Aug. 26.  
 Cotton, Bleaching. S. M. Rogers. 2,417,570; Mar. 18.  
 Cotton cleaner. F. E. Deems and A. L. Smith. 2,421,483; June 3.  
 Cotton cleaner. A. L. Smith. 2,421,526; June 3.  
 Cotton harvesting. A. E. Zock. 2,430,202; Nov. 4.  
 Cotton, Maturing. J. F. Kagy and D. T. Prendergast. 2,416,259; Feb. 18.  
 Cotton picker. R. S. Curley. 2,423,928; July 15.  
 Cotton picker's sack carrier. H. B. Foster. 2,421,779; June 10.  
 Cotton screen. T. S. Grimes. 2,432,235; Dec. 9.  
 Cotton textile goods, Bleaching. D. J. Campbell. 2,426,142; Aug. 19.  
 Counter and control device for a game apparatus, Add and subtract. F. A. Poole. 2,423,725; July 8.  
 Counter and stool construction, Clean sweep. I. O. Stelzer. 2,428,534; Oct. 7.



- Counterbalance for instrument movement and pointer. R. Simpson. 2,433,165; Dec. 23.
- Counterbalance for ramps and like pivoted members. A. Hicks. 2,416,752; Mar. 4.
- Counterbalance mechanism. V. N. Albertson. 2,428,924; Oct. 14.
- Counter electromotive force feedback circuit. D. S. Bond. 2,429,257; Oct. 21.
- Counter molding machine. W. H. Chamberlain. 2,433,318; Dec. 23.
- Counter reset device. L. F. Reinhold. 2,429,136; Oct. 14.
- Countersinking machine. J. A. Roberts. 2,419,657; Apr. 29.
- Counter system, Automatic. W. A. Ray. 2,425,124; Aug. 5.
- Counting and sorting machine, Coin. J. Jorgensen. 2,423,502; July 8.
- Counting attachment for parking meters. F. L. Michaels. 2,429,478; Oct. 21.
- Counting circuit. R. F. Massonneau. 2,417,427; Mar. 18.
- Counting device. J. G. Everhart. 2,420,590; May 13.
- Counting device. C. C. Green. 2,417,074; Mar. 11.
- Counting device. G. Rickard, Jr. 2,422,584; June 17.
- Counting device. E. Tatter. 2,426,715; Sept. 2.
- Coupler. K. S. Clapp. 2,425,692; Aug. 12.
- Coupler. E. P. Kinne. 2,421,153; May 27.
- Coupler, Automatic railroad car. G. N. Knapp. 2,422,355; June 17.
- Coupler for flowmeters or the like, Magnetic. N. Brewer. 2,425,691; Aug. 12.
- Coupler, Nondiffusing phenolic color. A. Bavyley. 2,418,747; Apr. 8.
- Coupler operating device, Car. V. E. Sisson. 2,415,610; Feb. 11.
- Coupler, Rotatable. E. Labin and A. G. Kandoian. 2,426,226; Aug. 26.
- Coupler shank and yoke connection. W. J. Metzger. 2,431,576; Nov. 25.
- Couplers for color photography, Nondiffusing. A. Bavyley. 2,425,503; Aug. 12.
- Couplers, Heterocyclic color. A. Bavyley. 2,418,748; Apr. 8.
- Coupling: *See*—
- Bag coupling.
  - Centrifugal coupling.
  - Coaxial line coupling.
  - Conduit coupling.
  - Draft coupling.
  - Elbow pipe coupling.
  - Fabricated high-pressure coupling.
  - Electric coupling.
  - Flexible coupling.
  - Flexible drive coupling.
  - Flexible duct coupling.
  - Flexible shock absorbing power coupling.
  - Fluid coupling.
  - Friction seal coupling.
  - Hose coupling.
  - Hydraulic coupling.
  - Inductive coupling.
  - Metal rolling mill universal spindle coupling.
  - Outlet box coupling.
  - Overload release coupling.
  - Pipe coupling.
  - Pipe or hose coupling.
  - Precision coupling.
  - Quick detachable coupling.
  - Quick detachable hose coupling.
  - Quick disconnect coupling.
  - Quick hose coupling.
  - Reducing coupling.
  - Releasable coupling.
  - Rod or pipe coupling.
  - Safety hose coupling.
  - Shaft coupling.
  - Slip-friction coupling.
  - Split packing ring coupling.
  - Synchronizer coupling.
  - Torque transmitting coupling.
  - Trailer coupling.
  - Tube coupling.
  - Turbine type hydraulic coupling.
  - Ultra-high-frequency coupling.
  - Valved coupling.
  - Valved pipe coupling.
  - Wabbler coupling.
- Coupling. L. E. Ansoerge. 2,423,632; July 8.
- Coupling. D. H. Brownell. 2,420,858; May 20.
- Coupling. J. P. Johnson. 2,425,539; Aug. 12.
- Coupling. G. L. Riggins. 2,420,725; May 20.
- Coupling. A. T. Scheiwer. 2,419,503; Apr. 22.
- Coupling. A. T. Scheiwer. 2,428,637-8; Oct. 7.
- Coupling. S. Segal. 2,433,298; Dec. 23.
- Coupling. W. O. Sjogren. 2,420,205; May 6.
- Coupling. J. G. Zolleis. 2,430,657; Nov. 11.
- Coupling and torque converter, Turbine type rotary fluid. J. Jandasek. 2,426,103; Aug. 19.
- Coupling apparatus for floating dry docks. F. R. Harris. 2,424,164; July 15.
- Coupling circuit. P. S. Carter. 2,420,354; May 13.
- Coupling device. E. G. K. Anderson. 2,414,789; Jan. 28.
- Coupling device. B. A. Bels. 2,432,275; Dec. 9.
- Coupling device and system, Ultra high frequency. M. D. Fiske. 2,422,190; June 17.
- Coupling device for electronic apparatus. N. Rochester. 2,433,817; Dec. 30.
- Coupling device for parachutes, Load. G. F. Jones. 2,421,152; May 27.
- Coupling device, High-frequency. W. G. Tuller. 2,433,074; Dec. 23.
- Coupling disconnect, Electrical. M. D. Bergan. 2,427,182; Sept. 9.
- Coupling for bands or the like. C. Goldblatt. 2,424,656; July 29.
- Coupling for cameras, Range finder. W. J. Semerau. 2,420,018; May 6.
- Coupling for electric wires. H. H. Corley. 2,418,164; Apr. 1.
- Coupling for exhaust conduits of internal-combustion engines, Flexible. P. E. Mercier. 2,423,462; July 8.
- Coupling for hose. J. N. Wolfram. 2,428,189; Sept. 30.
- Coupling for parachutes, Release. J. J. Maskey. 2,422,839; June 24.
- Coupling for rotary members. A. R. Brown. 2,430,449; Nov. 11.
- Coupling for suction cleaners. G. R. Coss. 2,420,866; May 20.
- Coupling for tubes, Flexible. J. J. Chavayda. 2,428,143; Sept. 30.
- Coupling for tubes having means for dampening vibrations therein. A. L. Parker. 2,428,176; Sept. 30.
- Coupling means, Fifth wheel. G. Walther and E. L. Miller. 2,423,743; July 8.
- Coupling mechanism, Tractor-trailer. E. L. Stevens. 2,431,779; Dec. 2.
- Coupling members, Making composite metal. W. H. Barlow. 2,423,432; July 8.
- Coupling network, Wide band interstage. W. E. Bradley. 2,419,882; Apr. 29.
- Coupling of the turbine type, Rotary hydraulic. E. A. Thompson. 2,430,258; Nov. 4.
- Coupling or clutch for parachutes and the like, Automatic load releasing. W. A. Heidman and W. A. Heidman, Jr. 2,420,746; May 20.
- Coupling or fluid pump, Hydraulic. W. A. Niemann. 2,427,570; Sept. 16.
- Coupling or joint, Pipe. A. and M. M. Mars. 2,423,655; July 8.
- Coupling shaft retaining means, Rotary fluid. R. C. Zeidler. 2,431,855; Dec. 2.
- Coupling structure, Power shaft. E. P. Lamb. 2,415,893; Feb. 18.
- Coupling system. R. M. Page, M. F. Distad, and R. T. Wilson. 2,426,236; Aug. 26.
- Coupling system. R. M. Ryder. 2,427,693; Sept. 23.
- Coupling system for power amplifiers. F. E. Terman. 2,429,652; Oct. 28.
- Couplings, Method and apparatus for balancing fluid. S. T. Foresman. 2,429,930; Oct. 28.
- Cover: *See*—
- Detachable mattress and spring cover.
  - Eye cover.
  - Flexible article cover.
  - Golf club cover.
  - Hatch cover.
  - Infant's sleeping cover.
  - Pad cover.
  - Slip cover.
  - Smoke pot cover.
  - Spring cover.
  - Vehicle wheel cover.
  - Wheel cover.
- Cover and baffle, Drinking cup. W. P. Wachsman. 2,428,056; Sept. 30.
- Cover and case, Book. A. C. Greene. 2,422,235; June 17.
- Cover and operating lever assembly, Clutch. R. C. Zeidler. 2,417,035; Mar. 4.
- Cover applicator. E. E. Wendt. 2,422,996; June 24.
- Cover for airplane windows, Instruction. W. M. McMains. 2,417,317; Mar. 11.
- Cover for containers, Slidable and pivoted. C. Nehrke. 2,424,112; July 15.
- Cover for cooking utensils, Venting. H. L. Sulak. 2,415,613; Feb. 11.
- Cover for electric coils, Insulation sealing. R. V. Hanchett. 2,432,194; Dec. 9.
- Cover for frying pans and the like. H. P. Serio. 2,428,894; Oct. 14.
- Cover for generator auxiliaries, Rollaway. C. C. Sterrett. 2,424,340; July 22.
- Cover for golf club heads. J. H. Whitehead. 2,417,336; Mar. 11.
- Cover for hand carried cases, Waterproof detachable. M. Allen. 2,432,365; Dec. 9.
- Cover for hinged-joint gear-assemblies. A. J. Quinn. 2,431,800; Nov. 18.
- Cover for motor vehicle brake casings, Inspection hole. A. Burrows. 2,420,353; May 13.
- Cover for oxygen regulators, Diaphragm. J. P. Johnson. 2,421,700; June 3.
- Cover for smoke pipes, Protective. J. H. Messer. 2,423,656; July 8.
- Cover for vehicle wheels, Ornamental. G. A. Lyon. 2,421,384; June 3.
- Cover means for mechanism of automotive vehicles. R. J. Sharp. 2,413,792; Jan. 7.
- Cover operating mechanism. C. Smith. 2,423,909; July 15.
- Cover securing means for infants. D. Halperin. 2,433,273; Dec. 23.
- Coveralls. H. Lang. 2,431,811; Dec. 2.
- Covering, Combination head and neck. A. Golfierl. 2,421,934; June 10.
- Covering for bonded wire electric strain gages, Protective. D. McHenry. 2,423,842; July 15.
- Covering for floors. R. V. Garner. 2,432,987; Dec. 23.
- Covering for preventing accumulation of ice on airfoils, Protective. E. E. Heston. 2,418,174; Apr. 1.
- Covering for the board of ironing tables. S. A. Di Gesare. 2,418,969; Apr. 15.
- Covering, Protective. L. Lesser. 2,425,701; Aug. 12.
- Covering, Seat. J. J. Petroske. 2,420,974; May 20.
- Covers and locking means therefor, Railway hatch. W. A. Beauchamp. 2,433,084; Dec. 23.
- Cowl fastener. W. H. Barlow. 2,419,108; Apr. 15.
- Cowling arrangement. H. W. Elkin. 2,421,689; June 3.
- Cowling fastener. A. M. Gorfin. 2,416,873; Mar. 4.
- Cowling for aircraft engines. H. D. Scrymgeour. 2,424,335; July 22.



- Cracking and coking broad oven of the recuperator type. Combined. C. H. Hughes. 2,426,612; Sept. 2.
- Cradle, Heat. O. Staloch. 2,429,110; Oct. 14.
- Cradle, Slipway. C. E. Miles. 2,419,361; Apr. 22.
- Craft control apparatus. J. C. Newton. 2,429,642; Oct. 28.
- Craft, Lifesaving. G. W. Leyde. 2,417,508; Mar. 18.
- Crane. W. W. Berchtold. 2,419,813; Apr. 29.
- Crane. A. and A. Faure. 2,413,701; Jan. 7.
- Crane. G. H. Hubbard and H. L. Turney. 2,428,163; Sept. 30.
- Crane, Portable. H. A. and G. H. Wagner. 2,414,573; Jan. 21.
- Crane, Retracting boom. H. G. Hills. 2,419,138; Apr. 15.
- Crane, Shuttle. F. C. Harris. 2,420,595; May 13.
- Crane, Shuttle bridge. F. C. Harris. 2,414,301; Jan. 14.
- Crane weight and radius indicator. W. R. Martin, L. Linder and H. J. Blythe. 2,418,593; Apr. 8.
- Crank pin bearing. T. V. Buckwalter. 2,418,245; Apr. 1.
- Crankshaft. W. A. Lightowler. 2,419,408; Apr. 22.
- Crankshaft, Counterweighted. C. J. McDowall and D. Gerdan. 2,419,274; Apr. 22.
- Crankshaft for two-stroke engines with twelve cylinders in line. J. Steiger. 2,426,753; Sept. 2.
- Crankshaft grinding machine. J. Miesse. 2,424,109; July 15.
- Crankshaft twisting machine. A. K. Nowak. 2,414,549; Jan. 21.
- Crash marker. J. De Rugeris. 2,418,549; Apr. 8.
- Crashproof liquid confining receptacle. W. D. Bradley. 2,430,905; Nov. 18.
- Crate, Bottle. S. J. Blackwell. 2,416,147; Feb. 18.
- Crate, Bottle. A. Taurman. 2,416,242; Feb. 18.
- Crate, Collapsible. W. F. Newhouse. 2,419,026; Apr. 15.
- Crate for automobile motors, Shipping. H. N. Nutt. 2,428,500; Oct. 7.
- Crater lamp. R. H. Clapp. 2,433,809; Dec. 30.
- Crayon and making same, Soapstone. A. M. Hossenlopp. 2,425,804; Aug. 19.
- Crazing of flash heated shapes of polystyrene, Prevention of. F. E. Wiley. 2,425,501; Aug. 12.
- Cream, Hair treating. H. R. Ramsey. 2,418,664; Apr. 8.
- Cream products, Manufacture of. L. K. Riggs. 2,414,837; Jan. 28.
- Cream separator. W. F. Hampton. 2,416,623; Feb. 25.
- Cream separator. L. D. McNeill. 2,428,429; Oct. 7.
- Cream separator. C. M. Wickstrum. 2,431,596; Nov. 25.
- Cream which, when applied to the skin, forms protective coating against flash burns, Composite. G. B. Fauley and A. C. Ivy. 2,425,311; Aug. 12.
- Creaser, Trouser. A. J. Meyer. 2,420,493; May 13.
- Creation of accumulations of subterranean courses of water, Artificial. A. De Vita. 2,426,730; Sept. 2.
- Creel. C. Chipman. 2,432,284; Dec. 9.
- Creeper. J. B. Barton. 2,430,662; Nov. 11.
- Creeper, Ice. T. Gershak. 2,431,748; Dec. 2.
- Creeper, Ice. C. L. Howard. 2,425,939; Aug. 19.
- Creeping mechanism for power shovels. G. G. Morin. 2,418,897; Apr. 15.
- Crib. C. E. Webb. 2,418,680; Apr. 8.
- Crib construction. E. E. Merrett and G. E. Froelich. 2,429,421; Oct. 21.
- Crib, Demountable pallet. J. J. Acteson. 2,420,640; May 20.
- Crib, Folding. A. M. Brown. 2,430,704; Nov. 11.
- Crib, Play. E. A. Lynch. 2,421,341; May 27.
- Crib unloading means, Corn. A. V. Clites. 2,430,327; Nov. 4.
- Cribbage board. C. J. Manuel. 2,432,167; Dec. 9.
- Cribbing machine. D. M. Praytor and K. Kershaw. 2,414,767; Jan. 21.
- Crinkled fabric and producing the same. A. S. Jones and G. B. Stackpole. 2,429,935; Oct. 28.
- Cross connection, Brushholder. C. F. Jenkins and R. E. Rambo. 2,431,255; Nov. 18.
- Crosshead and guide structure. E. C. Read. 2,418,901; Apr. 15.
- Cross, Illuminated. B. A. Blankenship. 2,427,655; Sept. 23.
- Cross pointer meter. F. A. Jenks. 2,424,570; July 29.
- Cross-totalizing device for record card data, Relay type. A. H. Dickinson and J. N. Wheeler. 2,420,167; May 6.
- Crosswinder with automatic drive control means. W. Siegenthaler. 2,416,072; Feb. 18.
- Crown closures. S. I. Aronovsky, W. F. Talburt, and E. C. Lathrop. 2,427,699; Sept. 23.
- Crude oil separator. P. M. Elliott. 2,421,375; June 3.
- Crusher roll including removable wear segments and interlocked teeth. J. T. Fowler. 2,429,157; Oct. 14.
- Crushing and feeding device, Ice. F. W. Brady. 2,416,432; Feb. 25.
- Crust breaking apparatus. R. L. Mosena, G. H. Traylor, R. L. Haislip, and A. E. Hall. 2,423,787; July 8.
- Crutch. J. A. Buell and F. A. Reiter. 2,426,594; Sept. 2.
- Crutch. G. G. Eldman. 2,429,409; Oct. 21.
- Crutch. J. C. Watters. 2,426,074; Aug. 19.
- Crutch, Adjustable. J. C. Watters. 2,422,451; June 17.
- Crutch attachment. F. H. Blum. 2,423,635; July 8.
- Crutch tip and cushioning means therefor. J. W. Moss. 2,414,758; Jan. 21.
- Cryptographic machine. L. Rosen. 2,425,006; Aug. 5.
- Crystal analysis apparatus. J. E. Coleman. 2,418,463; Apr. 8.
- Crystal contact of which one element is mainly silicon. D. E. Jones, E. Ransley, J. W. Ryde, and S. V. Williams. 2,419,561; Apr. 29.
- Crystal detector mounting. D. A. McLean and H. C. Theuner. 2,432,116; Dec. 9.
- Crystal formation. C. D. West. 2,414,679-80; Jan. 21.
- Crystal growing apparatus. W. O. Haas, Jr. 2,424,273; July 22.
- Crystal holder. W. E. Kuenstler. 2,429,414; Oct. 21.
- Crystal holder. W. E. Kuenstler. 2,429,826; Oct. 28.
- Crystal holder. N. A. Nelson. 2,430,478; Nov. 11.
- Crystalline iron by the hydrogen reduction of ferrous chloride. C. B. Williams and A. S. Henderson. 2,418,148; Apr. 1.
- Crystalline olefin-nitrosyl chloride addition products and making them. L. J. Beckham. 2,417,675; Mar. 18.
- Crystalline riboflavin, Obtaining. J. K. Dale. 2,421,142; May 27.
- Crystals, Finishing piezoelectric. K. B. Ross. 2,417,179; Mar. 11.
- Crystals, Mounting piezoelectric. E. M. Washburn. 2,427,825; Sept. 23.
- Crystals of nordihydroguaiaretic acid, Producing. J. Adams. 2,421,109; May 27.
- Crystals, Process and apparatus for orienting. W. F. Young. 2,430,969; Nov. 18.
- Cuff, Detachable shirt. M. Hermer. 2,428,158; Sept. 30.
- Cuff for babies, Hand covering. B. Moller. 2,416,800; Mar. 4.
- Cuff, Protective. H. H. McCarl. 2,425,333; Aug. 12.
- Cuff, Sanitary. V. Muccillo. 2,419,279; Apr. 22.
- Cultivating element and carrier therefor. C. S. Noble. 2,432,035; Dec. 2.
- Cultivator. H. A. Goode. 2,430,223; Nov. 4.
- Cultivator. T. W. Johnson. 2,431,046; Nov. 18.
- Cultivator, Adjustable wheeled. C. M. Kearns. 2,418,352; Apr. 1.
- Cultivator attachment. W. O. Hancock. 2,433,215; Dec. 23.
- Cultivator lift mechanism. W. A. Hyland and E. E. Schnell. 2,429,552; Oct. 21.
- Cultivator, Power-driven hand. R. F. Rogers. 2,433,709; Dec. 30.
- Cultivator, Quick demountable. T. W. Johnson. 2,423,148; July 1.
- Cultivator, Rotary. J. B. Schug. 2,420,500; May 13.
- Cup, Adhesive-containing suction. F. C. Braun. 2,432,719; Dec. 16.
- Cup and saucer and the like. F. J. Alexander. 2,427,487; Sept. 16.
- Cup decorating machine. W. H. Emerson. 2,425,928; Aug. 19.
- Cup, Infant's drinking. E. W. Pettersson. 2,414,697; Jan. 21.
- Cup or glass supporting plate. W. Weidler. 2,427,697; Sept. 23.
- Cup, Paint. J. Pressman. 2,424,898; July 29.
- Cupola. C. R. Beebe. 2,417,345; Mar. 11.
- Cupreous powder and making the same. D. S. Hubbell. 2,420,540; May 13.
- Cups and container for same, Stacking. L. M. Wiley. 2,420,215; May 6.
- Cups, Making paper. C. Barbieri. 2,426,159; Aug. 26.
- Cups, Method of and apparatus for making. R. P. Piperoux and D. G. Soussloff. 2,418,900; Apr. 15.
- Cups, Producing plastic. A. F. Pityo. 2,415,370; Feb. 4.
- Curb pump. E. R. Eichner. 2,414,030; Jan. 7.
- Curler. A. Caldora. 2,426,760; Sept. 2.
- Curler, Combined comb and hair. J. T. Dempsey. 2,431,865; Dec. 2.
- Curler, Hair. E. Bergen. 2,415,331; Feb. 4.
- Curler, Hair. L. H. Grant. 2,424,815; July 29.
- Curler, Hair. J. M. Gregory. 2,430,766; Nov. 11.
- Curler, Hair. T. A. Jaske. 2,414,694; Jan. 21.
- Curler, Hair. M. M. McPherson. 2,433,141; Dec. 23.
- Curler, Hair. M. M. Newman. 2,429,135; Oct. 14.
- Curler, Hair. A. A. Norin and F. D. Reynolds. 2,415,840; Feb. 18.
- Curler, Hair. W. Silverman. 2,415,914; Feb. 18.
- Curler, Hair. E. L. Watson. 2,429,176; Oct. 14.
- Curler, Pin curl. L. Stallins. 2,420,107; May 6.
- Curling device. S. Grant. 2,421,259; May 27.
- Curling rod. S. Grant. 2,415,586; Feb. 11.
- Curling rod. C. A. Reininger. 2,421,287; May 27.
- Current arrester, Electric. G. E. Johnson. 2,427,460; Sept. 16.
- Current collector. M. F. Jones. 2,422,554; June 17.
- Current collector. C. H. Saiter. 2,422,132; June 10.
- Current control apparatus. K. A. Lang. 2,426,937; Sept. 2.
- Current control, Electric welding. L. J. Puls. 2,415,532; Feb. 11.
- Current electric power systems, Protection of alternating. P. H. Light. 2,421,630; June 3.
- Current hydraulic apparatus for separating materials of different specific gravities, Upward. W. W. Stranahan. 2,424,517; July 22.
- Current limiter. J. Rogoff. 2,426,523; Aug. 26.
- Current limiter system for machine tool motors, Electronic. F. E. Dudley and J. E. Dinger. 2,431,316; Nov. 25.
- Current responsive switch. J. W. McClain. 2,426,038; Aug. 19.



- Current system, Constant. E. C. Hartwig. 2,431,248; Nov. 18.
- Curtain. M. Druck. 2,422,293; June 17.
- Curtain. N. S. Hicks. 2,420,479; May 13.
- Curtain construction. E. Lepow. 2,419,407; Apr. 22.
- Curtain ring. E. Yellin. 2,417,623; Mar. 18.
- Curtain rod. J. Nucio. 2,420,005; May 6.
- Curtain rod and drapery fixture. L. Brtva. 2,427,833; Sept. 23.
- Curtain rod mounting. J. Jacqué. 2,419,140; Apr. 15.
- Curtain, Three-way. L. Fischel. 2,416,438; Feb. 25.
- Curtain top construction. E. Lepow. 2,416,448; Feb. 25.
- Cushion. R. T. Schmidt. 2,415,765; Feb. 11.
- Cushion shoe and making same. C. C. Eaton and C. C. Eaton, Jr. 2,421,605; June 3.
- Cut-down device. L. B. Duff. 2,423,930; July 15.
- Cutoff machine, Foundry. H. H. Talboys. 2,418,737-8; Apr. 8.
- Cutoff mechanism. H. C. Behrens. 2,432,497; Dec. 16.
- Cut-out for motion-picture projecting machines, Automatic. J. M. Todd. 2,430,893; Nov. 18.
- Cutter: See—
- Ampule cutter.
  - Circular cloth cutter.
  - Corn cutter.
  - Corner paper cutter.
  - Gear cutter.
  - Glass cutter.
  - Grass and weed cutter.
  - Inserted blade cutter.
  - Inserted tooth milling cutter.
  - Leather conditioning cutter.
  - Milling cutter.
  - Milling machine cutter.
  - Mine cable cutter.
  - Pastry shell cutter.
  - Pie cutter.
  - Plaster cast cutter.
  - Portable bean cutter.
  - Power-driven reciprocating cutter.
  - Radial cutter.
  - Rotary disk cutter.
  - Scrap cutter.
  - Stalk cutter.
  - Type slug end cutter.
  - Washer cutter.
- Cutter. E. R. Miller. 2,430,883; Nov. 18.
- Cutter and clamping means, Inserted blade. M. J. Steffes. 2,420,057; May 6.
- Cutter and grinder, Grain and roughage. A. W. Molz and J. H. Parvin. 2,420,966; May 20.
- Cutter and litter disposal device, Roughage. M. L. Senenig. 2,426,059; Aug. 19.
- Cutter and peeler, Food. B. T. Fielder. 2,417,475; Mar. 18.
- Cutter and server, Cake. J. H. Norman. 2,417,172; Mar. 11.
- Cutter and tilling apparatus, Rotary trash. H. G. Traver. 2,430,148; Nov. 4.
- Cutter bar. C. F. Wood. 2,422,942; June 24.
- Cutter bits, Forming. L. E. Simmons. 2,418,320; Apr. 1.
- Cutter chain. L. E. Simmons. 2,418,319; Apr. 1.
- Cutter for machine tools. H. F. Messenger. 2,419,081; Apr. 15.
- Cutter for plastics, Heated. F. G. Dodge. 2,430,496; Nov. 11.
- Cutter, including a pivoted frame having detachable blades, Fruit and vegetable. G. E. Rieder. 2,429,108; Oct. 14.
- Cutter with hand pressure speed control, Spring-driven rotatable surgical. C. C. Whittaker. 2,419,045; Apr. 15.
- Cutter with stationary knife and reciprocating plunger, Vegetable. J. V. Myers. 2,423,399; July 1.
- Cutting and delivery means, Sheet. L. A. Moore. 2,427,223; Sept. 9.
- Cutting and flushing device, Garbage. A. Bjorklund. 2,431,161; Nov. 18.
- Cutting and molding device, Dough. F. D. Cosgrove. 2,431,789; Dec. 2.
- Cutting and polishing apparatus, Metal. H. G. Brabazon. 2,415,575; Feb. 11.
- Cutting apparatus. D. M. Curtis. 2,424,555; July 29.
- Cutting device. V. J. Sigoda. 2,432,545; Dec. 16.
- Cutting device for cutting strip metal, Flying. F. J. Wood. 2,415,325; Feb. 4.
- Cutting element for ice cubing machines. W. C. Pfeil. 2,420,400; May 13.
- Cutting machine, File. M. A. Hess. 2,415,559; Feb. 11.
- Cutting machine, Floating parallelogram. R. F. Helmkamp. 2,429,686; Oct. 28.
- Cutting machine for spur and screw gears, Gear. A. Aepli. 2,414,283; Jan. 14.
- Cutting machine, Fur. J. T. Maigis. 2,417,771; Mar. 18.
- Cutting machine, Screw thread. H. M. Field. 2,414,515; Jan. 21.
- Cutting machine, Torch. J. L. Anderson. 2,419,983; May 6.
- Cutting machine, Two plane. E. A. Gibson. 2,416,384; Feb. 25.
- Cutting machine, Vertical. J. Haller and L. V. Thompson. 2,422,095; June 10.
- Cutting, punching, and grooving device, Belt. G. Rothe. 2,428,742; Oct. 7.
- Cutting tool. H. C. Curtis. 2,417,813; Mar. 25.
- Cutting tool. R. P. Peckham, Jr. 2,418,790; Apr. 8.
- Cutting tool. N. H. Sheppard. 2,416,228; Feb. 18.
- Cutting tool. L. A. Smith. 2,428,099; Sept. 30.
- Cyanhydrins, Stabilization of. V. L. Hansley. 2,416,624; Feb. 25.
- Cyanine dyes containing a sulfamate anion. E. B. Middleton. 2,430,845; Nov. 11.
- Cyanoacetic acid esters of polyhydric alcohols and making same. J. B. Rust. 2,426,056; Aug. 19.
- Cyanuric chloride, Manufacture of. T. P. Metcalfe. 2,414,655; Jan. 21.
- Cyanuric chloride preparation. J. T. Thurston. 2,416,656; Feb. 25.
- Cyanuric chloride, Preparing. W. N. Oldham. 2,417,659; Mar. 18.
- Cycle for engines, Vapor-liquid cooling. M. F. Knoy. 2,413,770; Jan. 7.
- Cycle positioning means, Full. E. Grip and S. Toorell. 2,431,930; Dec. 2.
- Cyclic base derived from arylacetoneitrile derivatives, Manufacture of. F. Bergel, N. C. Hindley, A. L. Morrison, and H. Rinderknecht. 2,418,289; Apr. 1.
- Cyclic control means for line relays. K. L. Burgener. 2,428,550; Oct. 7.
- Cyclic mono-sulfones, Production of. R. C. Morris and H. D. Finch. 2,420,834; May 20.
- Cyclic olefins, Hydration of. H. J. Hepp. 2,414,646; Jan. 21.
- Cycloalkylacetic acids, Making. E. L. Pelston and A. A. Holzschuh. 2,425,343; Aug. 12.
- Cyclobutane, Making. G. B. Kistiakowsky and S. W. Benson. 2,414,880; Jan. 28.
- Cyclohexene oxides, Manufacture of. H. Pines, V. N. Ipatieff, and R. C. Olberg. 2,422,435; June 17.
- Cyclo-olefins, Isomerization of. V. N. Ipatieff and H. Pines. 2,431,755; Dec. 2.
- Cycloparaffin production. W. E. Ross and P. Pezzaglia. 2,415,065-6; Jan. 28.
- Cyclopentadiene from forerunnings, Removing. J. H. Wells and P. J. Wilson, Jr. 2,424,948; July 29.
- Cyclopropyl alkyl ethers as insecticides. H. L. J. Haller. 2,424,029; July 15.
- Cylinder, Air. C. H. Johnson. 2,415,181; Feb. 4.
- Cylinder and piston, Ring type. C. C. Farmer. 2,428,452; Oct. 7.
- Cylinder construction. R. H. Coverley and D. D. Arnott. 2,424,800; July 29.
- Cylinder construction, Engine. C. C. DePew. 2,426,438; Aug. 26.
- Cylinder cooling means. J. Zuljivech. 2,427,759; Sept. 23.
- Cylinder drain means, Electrically heated rotatable. D. B. Vandewater. 2,429,704; Oct. 28.
- Cylinder for gaging and assorting rivets according to shank diameter, Tumbling. A. Krasa. 2,427,410; Sept. 16.
- Cylinder heads, Forging. C. A. Brauchler. 2,424,075; July 15.
- Cylinder liner, Opposed piston engine. H. Lieberherr. 2,423,395; July 1.
- Cylinder liner sleeves, Making. A. T. Colwell and H. H. Engemann. 2,414,931; Jan. 28.
- Cylinder lock. R. H. Ducey. 2,419,013; Apr. 15.
- Cylinder, Lock. L. L. Kell. 2,426,141; Aug. 19.
- Cylinder, Master. J. N. Gladden. 2,427,669; Sept. 23.
- Cylinder, Master. A. H. Hopmans. 2,415,245; Feb. 4.
- Cylinder, Removable. C. Ledin and J. P. Andrew. 2,418,080; Mar. 25.
- Cylinder structure. P. L. Loewe. 2,426,108; Aug. 19.
- Cylinder testing method. R. J. Newman. 2,415,108; Feb. 4.
- Cylinders, Constructing air-cooled. A. Vang. 2,420,332; May 13.
- Cylinders of textile machines, Method and apparatus for stripping. E. Clark. 2,433,810; Dec. 30.
- Cylindrical articles, Drying method and apparatus for. W. L. Webb. 2,415,198; Feb. 4.
- Cylindrical combination lock. B. Sterner. 2,424,514; July 22.
- Cymbal beating device. J. M. D'Arcy. 2,417,972; Mar. 25.
- Cysteine, Recovery of. D. F. Holloway and H. H. Young. 2,414,303; Jan. 14.
- Damper. C. R. Anderson. 2,414,503; Jan. 21.
- Damper and muffler, Flame. A. L. Mobley. 2,420,789; May 20.
- Damper control. R. J. Parsons. 2,422,312; June 17.
- Damper control, Electric. H. C. Holz. 2,419,776; Apr. 29.
- Damper, Thermostatic. W. H. Carsten. 2,416,468; Feb. 25.
- Damper, Vibration. T. T. Brown. 2,417,347; Mar. 11.
- Damper, Vibration. P. P. Newcomb. 2,427,505; Sept. 16.
- Damper winding for synchronous machines. C. E. Kilbourne. 2,419,839; Apr. 29.
- Damping device cylinder construction, Hydraulic. G. M. Magrum. 2,419,651; Apr. 29.
- Damping device for remote control apparatus. A. P. Davis and G. Agins. 2,420,523; May 13.
- Damping device, Vibration. R. W. Dillon. 2,421,549; June 3.
- Damping means for galvanometers, Frictional. A. J. Williams, Jr., and O. B. Tatman. 2,425,408; Aug. 12.
- Dasher for churns. H. R. Marshall. 2,421,798; June 10.
- Data projection device, Film. G. R. Stewart. 2,419,041; Apr. 15.
- Decelerator, Parachute. H. S. Bacon. 2,414,284; Jan. 14.
- Dead-end clamp. G. E. Wadsworth. 2,429,705; Oct. 28.
- Dead-reckoning device, Automatic. W. P. Albert. 2,428,770; Oct. 14.
- Dead reckoning device, Automatic. R. O. Rippere. 2,425,346; Aug. 12.
- Dealkylation, Partial. F. E. Frey. 2,420,073; May 6.
- Decalcomania. H. F. Scheetz, Jr. 2,419,918; Apr. 29.
- Decalcomania and making. B. Asnes. 2,416,673; Mar. 4.



- Decalcomania assembly and making the same. W. A. Simmons. 2,424,508; July 22.
- Decalcomania manufacture. R. D. Marksberry. 2,426,462; Aug. 26.
- Decalin, Isomerization of. C. L. Thomas and H. S. Bloch. 2,416,966; Mar. 4.
- Decanter, Continuous. W. R. Ketchum. 2,416,009; Feb. 18.
- Decapitator, Poultry. J. L. Staufenbiel. 2,417,890; Mar. 25.
- Decelerator. R. H. Hieger. 2,415,491; Feb. 11.
- Decelerator for internal-combustion engines, Auxiliary. R. Gedstad. 2,429,714; Oct. 28.
- Deck for cooling towers, Distribution. E. R. Ketchum. 2,419,452; Apr. 22.
- Decollator for manifolding assemblies. C. R. Mabon. 2,425,105; Aug. 5.
- Decorated container. J. Pepin. 2,421,646; June 3.
- Decorating apparatus, Dinnerware. W. H. Emerson. 2,426,391; Aug. 26.
- Decorating machine. L. G. Freeman, Jr. 2,424,023; July 15.
- Decorative articles, Producing. J. R. Mares. 2,428,977; Oct. 14.
- Decorative effect on plastic, Producing. E. Norman. 2,420,614; May 13.
- Decorative knife handle. D. A. Dally. 2,423,640; July 8.
- Decorator, Pastry. W. V. Moore. 2,419,654; Apr. 29.
- Deflagrating compositions. R. C. Payn, E. Jones, and J. S. Flanders. 2,423,427; July 1.
- Deflecting circuit. E. Schoenfeld. 2,420,200; May 6.
- Deflecting material, Method and article for. E. L. Beisel. 2,423,287; July 1.
- Deflection circuit. K. Schlesinger. 2,425,491; Aug. 12.
- Deflection device for cathode ray tubes. C. E. Torsch. 2,428,947; Oct. 14.
- Defroster assembly, Automatic. J. C. Buchanan and I. H. Reindel. 2,429,449; Oct. 21.
- Defroster, Flexible. J. Gammack. 2,415,740; Feb. 11.
- Defrosting device, Low-voltage. R. E. Henriquez. 2,428,667; Oct. 7.
- Defrosting method. G. D. Allman. 2,429,909; Oct. 28.
- Defrosting method and apparatus. S. F. Shawhan. 2,421,293; May 27.
- Degasification. R. E. Compa. 2,420,356; May 13.
- Degasser for internal-combustion engines. M. Mallory. 2,420,786; May 20.
- Degaussing system. A. A. Stuart, Jr. 2,421,583; June 3.
- Degreaser, Portable. J. J. Skelly. 2,427,978; Sept. 23.
- Dehumidifier. T. R. Hinger. 2,420,707; May 20.
- Dehydrating apparatus. W. H. Taylor. 2,414,215; Jan. 14.
- Dehydration. W. J. Hale. 2,415,878; Feb. 18.
- Dehydration apparatus having conveyors, agitators, radiant heaters and gas circulating means. C. Birdseye. 2,419,876; Apr. 29.
- Dehydration of foods by means of hydrophilic liquids. J. D. Brandner and R. M. Goepf, Jr. 2,420,517; May 13.
- Dehydration of foodstuffs with carbon dioxide. G. T. Reich. 2,427,302; Sept. 9.
- Dehydrator attachment for tanks. L. G. Lindsay. 2,428,426; Oct. 7.
- Dehydrator employing hot air and a desiccant, Portable food. W. W. Gary. 2,414,642; Jan. 21.
- Deicer, Propeller. L. A. Williams, Jr., and H. J. De N. McCollum. 2,418,682; Apr. 8.
- Deicing and heating device for motor vehicles. H. H. Schneider. 2,431,773; Dec. 2.
- Deicing composition. G. T. Lampton, H. L. Vasbinder, and T. A. Dissel. 2,416,103; Feb. 18.
- Delay circuit. D. D. Grieg. 2,419,546; Apr. 29.
- Delay device. L. A. de Rosa. 2,423,085; July 1.
- Delay device. J. A. Hall and W. P. Mason. 2,421,026; May 27.
- Deleaser, Cotton plant. A. R. Nisbet, Sr. 2,427,155; Sept. 9.
- Delinting screen. A. H. Davis, Jr. 2,422,825; June 24.
- $\Delta$ -1,4-androstadienol-17-one-3 and its derivatives, Preparing. H. H. Inhoffen and G. Zuhlsdorff. 2,422,904; June 24.
- $\Delta^{16}$ -pregnenediols and producing the same. R. E. Marker. 2,420,490; May 13.
- $\delta$ -valerolactone, Preparation of. J. G. M. Bremner, D. G. Jones, and A. W. C. Taylor. 2,429,799; Oct. 28.
- Demand meter. R. O. Hamill. 2,424,689; July 29.
- Demand meter. C. E. Klaus. 2,431,125; Nov. 18.
- Demethylation of saturated hydrocarbons, Selective. V. Haensel and V. N. Ipatieff. 2,422,674-5; June 24.
- Demethylation of trimethyl pentanes to form triptane, Selective. V. Haensel and V. N. Ipatieff. 2,422,672; June 24.
- Demodulator. D. D. Grieg. 2,416,306; Feb. 25.
- Demodulator circuit. G. W. Downs and D. A. Kelly. 2,417,974; Mar. 25.
- Demodulator for carrier telegraph signals. E. P. Bancroft and J. L. Jatlow. 2,424,961; Aug. 5.
- Demodulator system. D. D. Grieg. 2,421,025; May 27.
- Demonstrating device. H. M. Rogers. 2,419,658; Apr. 29.
- Demountable device for punching tubes. H. A. Burlison. 2,419,534; Apr. 29.
- Demountable wheel. D. Adams. 2,421,176; May 27.
- Demountable wheel. B. C. Monroe. 2,424,487; July 22.
- Demitrating nitrocellulose articles. F. H. Reichel and R. T. K. Cornwell. 2,421,391; June 3.
- Densitometer arm comprising combined hinging and biasing means, Detachable. L. W. Lessler. 2,427,795; Sept. 23.
- Densitometer arm comprising combined hinging and biasing means, Detachable. G. G. Raymond. 2,427,922; Sept. 23.
- Densitometer for measuring the light transmission of a fluid while submerged. J. E. MacAdams. 2,427,013; Sept. 9.
- Density recording optical system, Variable. J. A. Maurer, Jr. 2,426,367; Aug. 26.
- Dental apparatus. R. W. Page. 2,420,338; May 13.
- Dental appliance. L. H. Hamilton. 2,417,682; Mar. 18.
- Dental articulator. C. E. D'Essen. 2,418,824; Apr. 15.
- Dental articulator. J. D. Kinsley. 2,432,624; Dec. 16.
- Dental care outfit. S. J. Stanton. 2,415,447; Feb. 11.
- Dental crown cap press. A. F. Miskunas. 2,423,041; June 24.
- Dental engine attachment. H. Freedman. 2,415,203; Feb. 4.
- Dental hand piece. M. Staunt. 2,432,179; Dec. 9.
- Dental impression composition. S. E. Noyes. 2,424,895; July 29.
- Dental impression composition. S. E. Noyes. 2,425,118; Aug. 5.
- Dental impression equalizer. H. F. Chaiken. 2,423,005; June 24.
- Dental instrument. D. Reiter. 2,418,316; Apr. 1.
- Dental instrument. A. E. Sykes. 2,428,689; Oct. 7.
- Dental lathe pan, Agitating ejector type. R. L. Guedel. 2,421,498; Jun. 3.
- Dental pin assembly, Demountable. T. Wichner. 2,430,795; Nov. 11.
- Dental press. J. C. Sharrock and J. A. Sheeley. 2,424,906; July 29.
- Dental restoration, including artificial teeth and dentures. M. S. Shapiro. 2,420,570; May 13.
- Dental unit. R. L. Roof. 2,419,370; Apr. 22.
- Dentistry. M. and V. E. Beresin. 2,428,773; Oct. 14.
- Denture. S. and M. Myerson. 2,419,084; Apr. 15.
- Denture correlator, Prosthetic. L. E. Johnson and M. La G. Oglesby. 2,430,177; Nov. 4.
- Denture, Laminated. Le M. W. Harris and L. W. Colton. 2,418,833; Apr. 15.
- Dentures, Making. C. Levine. 2,423,330; July 1.
- Dentures, Method and apparatus for producing artificial. C. S. Kile. 2,418,648; Apr. 8.
- Depilator. H. J. Scott. 2,413,998; Jan. 7.
- Depositing device for plastic materials. H. T. Hollowell, Jr. 2,426,969; Sept. 2.
- Deposition of rust-proof coatings, Electrolytic. J. S. Nachtman. 2,428,318; Sept. 30.
- Depositor and applicator. L. S. Seidler. 2,430,250; Nov. 4.
- Depository for associated parking meters, Coin. H. P. Compton. 2,431,229; Nov. 18.
- Depressants for lubricating oils, Pour point. T. G. Murphy and J. Faust. 2,423,789; July 8.
- Depressor, Confection tongue. J. M. Leach. 2,425,945; Aug. 19.
- Depressor, Pour. E. Lieber. 2,415,699; Feb. 11.
- Derail guide box. S. W. Hayes. 2,430,567; Nov. 11.
- Dermatone. C. L. Eidam. 2,428,018; Sept. 30.
- Dermatome attachment. J. D. Reese. 2,424,584; July 29.
- Dermatome with threaded and adjustable guide rod for cutting skin grafts of varying thickness. T. R. Vermilion. 2,426,381; Aug. 26.
- Derrick, Guy. R. O. Lively. 2,432,528; Dec. 16.
- Derrick substructure. H. J. Woodsley, E. A. Campbell, and C. Jenkins. 2,429,010; Oct. 14.
- Desiccating method and apparatus. G. Tooby. 2,422,706; June 24.
- Design formation on colored paper. H. Orchard. 2,420,336; May 13.
- Designs in knitted or woven fabric or synthetic polyamide fibers such as nylon, Forming. E. F. Seemuller. 2,424,124; July 15.
- Desk convertible into carrying cases. L. A. Scott. 2,431,711; Dec. 2.
- Desk having an extensible support for a typewriter. M. Fox. 2,428,211; Sept. 30.
- Desk, Typewriter. W. J. Bargaen. 2,414,433; Jan. 21.
- Dessert composition, Frozen. S. Musher. 2,431,704; Dec. 2.
- Desulfurization and hydroforming. M. W. Lee. 2,417,308; Mar. 11.
- Desulfurizing adsorbent and preparing same. R. G. Capell and R. C. Amero. 2,433,426; Dec. 30.
- Detachable bridge unit crystal mounting. S. A. Bokovoy. 2,424,963; Aug. 5.
- Detachable button fastener. E. Trumbo. 2,429,174; Oct. 14.
- Detachable handle. V. A. Herr. 2,424,094; July 15.
- Detachable head wrench. M. Gryniuck. 2,420,132; May 6.
- Detachable mattress and spring cover. H. Waetzman. 2,417,333; Mar. 11.
- Detachable pipe joint. C. J. Neuman. 2,430,730; Nov. 11.
- Detachable wing tip tank. M. H. Lerche. 2,416,104; Feb. 18.
- Detaching device, Rapid sack. J. J. Jones. 2,423,325; July 1.



- Detecting and control apparatus, Radiant energy. L. Hammond. 2,413,870; Jan. 7.
- Detecting apparatus, Photoelectric. E. B. McDowell and E. M. Gardiner. 2,419,459; Apr. 22.
- Detection apparatus, Obstacle. N. H. Young, Jr. 2,419,620; Apr. 29.
- Detection device, Icing. J. E. Lindberg. 2,426,625; Sept. 2.
- Detection of large magnetic bodies. O. E. Buckley. 2,415,808; Feb. 18.
- Detection of oxidizing or reducing substances by electrode depolarization. H. C. Marks. 2,414,411; Jan. 14.
- Detection system, Distance indicating. L. A. de Rosa. 2,419,541; Apr. 29.
- Detection system, Radio. L. A. de Rosa. 2,426,989; Sept. 9.
- Detection system, Submarine. L. A. Meacham. 2,418,846; Apr. 15.
- Detection systems, Indicating method and apparatus for. J. E. Shepherd. 2,432,101; Dec. 9.
- Detector and indicator for bowling alleys, Foul. P. M. Smith. 2,417,092; Mar. 11.
- Detector, Centimeter wave. W. L. Carlson. 2,427,087; Sept. 9.
- Detector, Crystal. T. H. Kinman and B. A. C. Tucker. 2,429,823; Oct. 28.
- Detector, Electric weft. R. F. Dion. 2,433,102; Dec. 23.
- Detector, Fault. P. E. H. Eichinger. 2,433,444; Dec. 30.
- Detector for electric power distribution systems, Ground. L. L. Fountain. 2,428,563; Oct. 7.
- Detector for frequency modulated signals. J. C. Tellier. 2,417,717; Mar. 18.
- Detector for high-frequency alternating electric currents, Rectifying. L. E. Thompson and A. Jenkins. 2,432,594; Dec. 16.
- Detector for locating imperfections in knitted fabrics. G. E. Henning. 2,427,406; Sept. 16.
- Detector for looms, Double electric weft. R. G. Turner. 2,418,678; Apr. 8.
- Detector for looms, Electric weft. V. F. Sepavich. 2,430,829; Nov. 11.
- Detector for looms, Electric weft. R. G. Turner. 2,417,997; Mar. 25.
- Detector for looms, Electronic weft. V. F. Sepavich and J. C. Manoog. 2,429,528; Oct. 21.
- Detector for looms, Electronic weft. V. F. Sepavich and J. C. Manoog. 2,429,529; Oct. 21.
- Detector for looms, Electronic weft. V. F. Sepavich and J. C. Manoog. 2,431,429; Nov. 25.
- Detector for looms, Photoelectric weft. O. V. Payne. 2,431,340; Nov. 25.
- Detector for looms, Photoelectric weft. O. V. Payne. 2,432,793; Dec. 16.
- Detector for looms, Thin place. J. H. Chapman. 2,429,804; Oct. 28.
- Detector for looms, Thin place. A. S. Thomas. 2,426,570; Aug. 26.
- Detector, Frequency modulation. C. E. McClellan. 2,420,892; May 20.
- Detector, Frequency modulation. C. G. Sontheimer. 2,420,268; May 6.
- Detector, Impulse radiation obstacle. H. G. Busignies. 2,423,082; July 1.
- Detector, Leak. G. J. C. Andresen. 2,432,367; Dec. 9.
- Detector, Magnetic field. A. G. Laird and T. Slonczewski. 2,426,622; Sept. 2.
- Detector of modulated carrier frequencies. S. G. Tomlin. 2,421,043; May 27.
- Detector of the thermocouple type, Fire. F. C. Evans. 2,432,145; Dec. 9.
- Detector or receiver, Submarine signal. R. Black, Jr., and F. F. Romanow. 2,424,549; July 29.
- Detector, Oscillating frequency. E. Labin. 2,426,030; Aug. 19.
- Detector, Phase modulation. M. G. Crosby. 2,425,924; Aug. 19.
- Detector, Phase-sensitive. J. E. Shepherd. 2,425,009; Aug. 5.
- Detector, Sheet. C. W. Harrold. 2,433,120; Dec. 23.
- Detector system for looms, Electric weft. V. F. Sepavich and J. C. Manoog. 2,429,530; Oct. 21.
- Detector, Thermionic energy. H. I. Becker. 2,419,052; Apr. 15.
- Detector, Thermostatic fire. J. H. Derby. 2,428,838; Oct. 14.
- Detector, Ultra high frequency. W. H. Hewitt, Jr. 2,432,097; Dec. 9.
- Detector, Vapor. R. T. Marett and W. R. Richards. 2,427,291; Sept. 9.
- Detector with movable finger, Weft. R. G. Turner. 2,421,587; June 3.
- Detection screen. F. R. E. Smith and L. E. Willett. 2,417,711; Mar. 18.
- Detergent composition. J. Cunder. 2,414,452; Jan. 21.
- Detergent particles having only slight dust-forming tendencies, Preparation of. R. F. Heald and M. L. Givan. 2,423,450; July 8.
- Detergents, Treating sprayed dried organic. S. J. Holuba. 2,423,452; July 8.
- Deterioration of electrodes in heat-treating, Preventing. F. C. Ames. 2,419,383; Apr. 22.
- Determining the dip of strata traversed by a borehole, Method and apparatus for. H.-G. Doll. 2,427,950; Sept. 23.
- Determining the location of producing horizons in wells, Method and apparatus for. A. J. Teplitz. 2,433,718; Dec. 30.
- Detonating mechanism. H. C. Hebard. 2,422,548; June 17.
- Detonation indicating system. A. Crossley and D. L. Elam. 2,416,614; Feb. 25.
- Detonation pickup device. K. R. Eldredge and E. E. Edwards. 2,414,457; Jan. 21.
- Detonator. G. H. Scherrer. 2,429,490; Oct. 21.
- Detonator, Compound. G. F. Rolland. 2,422,043; June 10.
- Detonator head. W. W. Riedel. 2,427,812; Sept. 23.
- Detonator tester. A. M. Biggar. 2,431,683; Dec. 2.
- Detonators, Compound. C. J. Bain and L. R. Carl. 2,415,806; Feb. 18.
- Device and method of securing corrugated sheets. W. S. Miles. 2,424,410; July 22.
- Device for airplanes, Ice removing. T. C. Harper. 2,417,930; Mar. 25.
- Device for anchoring cables and the like. J. P. McHugh. 2,433,234; Dec. 23.
- Device for applying double lip fringe to rugs. J. E. Gronenberg. 2,428,421; Oct. 7.
- Device for automatic lathe. E. Bodmer. 2,419,704; Apr. 29.
- Device for automatic push rods, Anticrashing. H. H. Engemann. 2,419,316; Apr. 22.
- Device for cable splicing, Sleeve splitting. T. W. Turner. 2,414,073; Jan. 7.
- Device for carrying luggage and other articles. A. Schulein. 2,419,422; Apr. 22.
- Device for classifying objects according to weight. F. W. Gilchrist, D. B. Kendall, and R. O. Bradley. 2,417,642; Mar. 18.
- Device for cleaning pipe lines. C. J. Haynes and S. E. Swain. 2,418,880; Apr. 15.
- Device for comminuted material, Centrifugal air separator and screening. G. S. Weinberger. 2,418,061; Mar. 25.
- Device for controlling for cooling purposes the flow of fluids, Thermostatic. W. F. F. Martin-Hurst. 2,423,398; July 1.
- Device for controlling the brake action in railway cars and the like. H. Kattwinkel. 2,415,100; Feb. 4.
- Device for controlling the supply of fuel and other liquids to internal-combustion engines. P. H. Stoke. 2,422,808; June 24.
- Device for cooling by immersion in a chilled liquid. F. J. McMichael. 2,427,869; Sept. 23.
- Device for deep fat frying. H. W. Kuehn and F. G. Wheeler. 2,425,699; Aug. 12.
- Device for determining compass errors. J. W. Sawyer. 2,424,254; July 22.
- Device for determining electrically the positions of objects, Stroboscopic. F. Turrettini. 2,416,968; Mar. 4.
- Device for dispensing from an inverted milk can. L. Bethke. 2,423,679; July 8.
- Device for draining umbrellas. A. Bossart. 2,427,188; Sept. 9.
- Device for electromagnetic deflection of a cathode-ray. H. van Suchtelen. 2,420,156; May 6.
- Device for enveloping and sealing flat articles, for example letters. A. Reiner and W. Rehm. 2,421,964; June 10.
- Device for examining the anterior chamber of the eye. E. L. Allen. 2,430,851; Nov. 18.
- Device for feeding greasy or viscous material, Movably mounted and vibratory. W. D. W. Richman. 2,414,273; Jan. 14.
- Device for filling batteries, Piercing. G. E. Eckman. 2,424,807; July 29.
- Device for filling containers, Pressure operated valve. M. Hallad. 2,413,916; Jan. 7.
- Device for finding centers of areas. J. M. Burke. 2,414,634; Jan. 21.
- Device for forming helical coils. C. Anthony. 2,432,080; Dec. 9.
- Device for grading articles according to weight by step-by-step vibrationless advancement over a plurality of scales. H. O. and O. C. Niederer. 2,433,575; Dec. 30.
- Device for guiding flow of material in magnetic separators. C. J. Johnson. 2,426,352; Aug. 26.
- Device for gyroscopes, Erecting. R. G. Jewell. 2,418,032; Mar. 25.
- Device for handling flanged objects. H. Eiriksson. 2,420,658; May 20.
- Device for harvester reels and the like, Jacking. O. F. Lohse. 2,414,958; Jan. 28.
- Device for holding objects to be copied or photographed. T. E. Crockett. 2,425,921; Aug. 19.
- Device for holding packages of yarn or the like in dyeing or similar processes. W. A. Traver. 2,418,740; Apr. 8.
- Device for illuminating and exhibiting transparencies. J. and A. Gross. 2,418,225; Apr. 1.
- Device for improving signal-to-noise ratio in radar systems, Cathode-ray. H. S. Wertz. 2,430,038; Nov. 4.
- Device for indicating the last item of a telephone number dialed. T. S. Hultgren. 2,413,974; Jan. 7.
- Device for indicating the synchronization of two revolving or rotating bodies. J. L. Kipnis. 2,430,125; Nov. 4.
- Device for indirect heating of materials. R. G. Picard. 2,417,213; Mar. 11.
- Device for inserting and removing lighting tubes. J. D. Diver. 2,427,842; Sept. 23.



- Device for internal-combustion engine valves, Clearance regulating. O. M. Burkhardt. 2,433,089; Dec. 23.
- Device for introducing motion into sealed instruments. F. D. Herbert, Jr. 2,419,074; Apr. 15.
- Device for killing rodents by electricity. W. E. Lake. 2,417,601; Mar. 18.
- Device for knitting machines, Releasable roll take-up. A. Dickno. 2,429,674; Oct. 28.
- Device for knitting machines, Take-up. F. Lambach. 2,429,230; Oct. 21.
- Device for launching aircraft or other bodies into the air. A. B. Schultz. 2,433,488; Dec. 30.
- Device for locating and setting out holes in workpieces. E. Fuchs. 2,414,733; Jan. 21.
- Device for locomotives, Lateral motion. S. T. Peterson. 2,433,528; Dec. 30.
- Device for making rosettelike articles. H. Cottrell. 2,413,955; Jan. 7.
- Device for making sound effects. L. J. Witte and B. H. Southland. 2,425,975; Aug. 19.
- Device for measuring and dispensing granular and pulverulent materials. T. Bailey. 2,416,811; Mar. 4.
- Device for measuring electromagnetic field intensity. R. M. Redheffer. 2,429,843; Oct. 28.
- Device for measuring the density of fluids in pipes. N. Plank. 2,432,039; Dec. 2.
- Device for measuring the level of a molten metal bath. F. A. Hueser. 2,423,888; July 15.
- Device for measuring the ratio between two variables. L. Lee, II. 2,423,394; July 1.
- Device for measuring volume of wood in stacks. C. H. Keepers. 2,424,619; July 29.
- Device for measuring wall thickness. G. Herzog. 2,425,533; Aug. 12.
- Device for meat cutting machines, Gauge plate adjusting. W. Cohen. 2,433,600; Dec. 30.
- Device for mixing gas and air. E. Rathbun. 2,420,562; May 13.
- Device for molding of veneer structures. R. G. Weyant. 2,417,226; Mar. 11.
- Device for orienting articles. C. H. Angell. 2,433,561; Dec. 30.
- Device for oven doors, Stop. H. M. Reeves. 2,417,521; Mar. 18.
- Device for printing elements and the like, Predetermined register. W. C. Huebner. 2,417,496; Mar. 18.
- Device for reciprocating pump rods. L. P. Heiman. 2,417,411; Mar. 18.
- Device for recording television programs. H. C. Milholand. 2,414,319; Jan. 14.
- Device for regulating the temperature of electric furnaces of the resistance type. E. P. Jung. 2,422,734; June 24.
- Device for regulating the thickness of ice formations on evaporator coils. C. E. Vandenberg. 2,421,819; June 10.
- Device for removal of barb wire entanglements. L. D. Boyce. 2,426,592; Sept. 2.
- Device for removing bricks. W. F. Casey. 2,413,746; Jan. 7.
- Device for removing the tarnish from silver and the like. H. M. Isaacson. 2,421,027; May 27.
- Device for removing tubes from heat exchange assemblies. F. M. Paxson. 2,430,733; Nov. 11.
- Device for retrieving spherical objects. J. F. Binder. 2,413,679; Jan. 7.
- Device for rotary pumps, Compensating. J. B. Parsons. 2,417,701; Mar. 18.
- Device for rotating rounded objects. K. W. Rockstroh. 2,426,751; Sept. 2.
- Device for securing a propellant charge to an artillery primer. E. J. Hottinger. 2,419,949; May 6.
- Device for separating liquids of different specific gravity. L. A. Werth. 2,419,666; Apr. 29.
- Device for separating printing rollers in the absence of paper sheet. G. Babicz. 2,432,133; Dec. 9.
- Device for sewing machines, Work channeling. C. A. Newhall. 2,417,516; Mar. 18.
- Device for shaker conveyors, Self-loading. E. R. Bergmann. 2,425,078; Aug. 5.
- Device for shaping lenses. H. G. Hoffer. 2,421,065; May 27.
- Device for sharpening cutlery. W. E. Fleming. 2,425,369; Aug. 12.
- Device for sharpening knives or the like. L. E. Elphee. 2,432,231; Dec. 9.
- Device for sliding doors, Lifting. F. Ditchfield. 2,417,471; Mar. 18.
- Device for snow tractors, Steering. E. M. Tucker. 2,433,173; Dec. 23.
- Device for sorting and orienting blanks having portions of different transverse dimensions. F. B. Davis. 2,433,096; Dec. 23.
- Device for splitting diamond drill cores. J. G. Dickenson. 2,426,344; Aug. 26.
- Device for stopping motors, Auxiliary. M. N. Yardeny, R. Bernas, and L. Kardorf. 2,417,795; Mar. 18.
- Device for stretching flexible members. A. C. Anselmi. 2,422,065; June 10.
- Device for stretching the selvage threads on looms. R. Dewas. 2,433,101; Dec. 23.
- Device for supplying air to vehicle tires. G. C. Schule. 2,418,730; Apr. 8.
- Device for supporting articles on garments. C. W. Prince. 2,423,948; July 15.
- Device for supporting bicycles on automobile bumpers. H. P. Del Cano. 2,432,732; Dec. 16.
- Device for supporting garden hose. J. L. Decker. 2,413,813; Jan. 7.
- Device for tenting frames, Clip opening. U. Bumann. 2,414,010; Jan. 7.
- Device for testing static accumulating properties of textile fibers. R. V. Ott. 2,421,430; June 3.
- Device for the manufacture of glued shoes, Pneumatic. C. F. Delsordo. 2,430,214; Nov. 4.
- Device for the manufacture of stockings. J. Garric. 2,420,821; May 20.
- Device for the seat posts of chairs, Locking. C. E. E. Lundquist. 2,432,245; Dec. 9.
- Device for the speed regulation of electric commutator machines. P. Flury. 2,422,614; June 17.
- Device for throttling internal-combustion engines. M. Mallory. 2,415,505; Feb. 11.
- Device for toilets, Sewage disposal. H. W. McPherson. 2,414,964; Jan. 28.
- Device for tube envelopes, Protective. N. B. Krim. 2,424,990; Aug. 5.
- Device for tying wire around an article. A. Gubser and A. Broder. 2,421,878; June 10.
- Device for typewriters, Variable letter-spacing. M. H. Loughridge. 2,418,474; Apr. 8.
- Device for upsetting metal. A. J. Moore. 2,428,173; Sept. 30.
- Device for upsetting metal. A. J. Moore. 2,428,675; Oct. 7.
- Device for use in the manufacture of synthetic threads. W. V. Henry. 2,424,490; July 22.
- Device for warming and reconditioning beer. A. A. Bezosky. 2,421,921; June 10.
- Device for warp threads in weaving-preparing machines, Separating. H. Meier. 2,413,881; Jan. 7.
- Device for wheel excavators, Dumping. P. S. Stevens. 2,417,846; Mar. 25.
- Device for winding up webbing from looms. A. J. Luchansky. 2,431,130; Nov. 18.
- Device for window sash, Antirattle. F. W. Comber. 2,417,970; Mar. 25.
- Device for windows and the like, Antirattler. E. C. Lyons. 2,417,656; Mar. 18.
- Device in saw frames. C. O. Johansson. 2,431,044; Nov. 18.
- Device responsive to the rate of turn of a craft. R. H. Nisbet and W. G. Harding. 2,431,706; Dec. 2.
- Device to facilitate mounting specimens on microscope slides. A. H. Longstreet. 2,417,802; Mar. 18.
- Device to teach speech to deaf and hard of hearing students and others. H. R. Goldberg. 2,421,146; May 27.
- Devices for treatment of matters with high-speed electrons. A. A. Brasch. 2,429,217; Oct. 21.
- Dew point instrument. F. W. Schmitz. 2,433,486; Dec. 30.
- Dewatering and concentrating means for magnetic separators, Magnetic. H. K. Martin. 2,422,113; June 10.
- Dewatering starch conversion syrup. H. H. Schopmeyer, F. J. Hammerstein, and G. W. Larmouth. 2,429,964; Oct. 28.
- Dextrins from stillage syrup, Recovering. H. W. Coles. 2,431,309; Nov. 25.
- Dextrose sugar solutions, Purifying. A. S. Behrman, H. B. Gustafson, and J. C. Hesler. 2,413,676; Jan. 7.
- Diacetone glycol to form a methyl pentadiene, Dehydration of. W. T. Schelling and J. Anderson. 2,422,802; June 24.
- Diagnostic compositions. J. Kamlet. 2,418,033; Mar. 25.
- Diagnostic instrument. D. V. Summerville and H. W. Naulty. 2,415,310; Feb. 4.
- Diagnostic preparations. H. Vollmer. 2,422,866; June 24.
- Dial bore gage. A. H. Emery. 2,429,511; Oct. 21.
- Dial calipers, Pivoted. C. Moerman. 2,421,517; June 3.
- Dial for photoelectric light meters, Indicating. R. D. Hickok. 2,421,504; June 3.
- Dial holding mechanism for knitting machines. R. H. Lawson. 2,428,230; Sept. 30.
- Dial instrument, Mounting. S. Kahn. 2,422,908; June 24.
- Dial lock. A. Sprigman. 2,433,794; Dec. 30.
- Dial, Milling machine indicating. L. F. Nenninger and F. A. Hassman. 2,416,539; Feb. 25.
- Dial mounting for electrical measuring instruments. R. L. Triplett. 2,426,800; Sept. 2.
- Dial operator, Automatic. M. and R. Demeulenaere. 2,426,600; Sept. 2.
- Dialkanol piperazines, Mono-substituted. J. D. Malke-mus. 2,421,707; June 3.
- Dialkoxyaryl trichloromethyl methane compounds as insecticides. E. W. Bousquet and A. H. Goddin. 2,240,928; May 20.
- Dialkyl-dihydroxy-diphenyl-hexadienes and their derivatives. A. Bloom and V. Niederl. 2,419,516; Apr. 22.
- Dialkyl peroxides, Mixed. F. F. Rust and F. H. Dickey. 2,414,769; Jan. 21.
- Dialkylaminoalkyl benzhydryl ethers and salts thereof. G. Rieveschl, Jr. 2,421,714; June 3.



- Dialkylaminopropyl ethers of benzhydrol. G. Rieveschl, Jr. 2,427,878; Sept. 23.
- Diallyl ether of 2-butene 1,4, diol. G. F. Deebel. 2,426,863; Sept. 2.
- Diamino diphenyl azo compounds, Mixtures of. A. H. Popkin. 2,431,889; Dec. 2.
- Diamond drill. W. G. Lake. 2,419,901; Apr. 29.
- Diaper. J. D. Hazen. 2,425,617; Aug. 12.
- Diaphragm. M. W. Huber. 2,433,221; Dec. 23.
- Diaphragm pump. J. H. V. Finney. 2,414,806; Jan. 28.
- Diaphragm pump. W. F. Wesley. 2,430,545; Nov. 11.
- Diaphragms, Making. I. E. Coffey. 2,422,529; June 17.
- Diaphragms, Manufacture of. F. V. Sander and C. H. Coles. 2,427,305; Sept. 9.
- Diaryl-dialkyl-ethane derivatives and manufacture of same. E. Adler. 2,421,402; June 3.
- Diaryl-dichloro-ethylene compounds as insecticides. P. Müller. 2,429,839; Oct. 28.
- Diaryl nitrosamines, Production of. H. J. Kehe. 2,419,718; Apr. 29.
- Di (aryl sulfone) amides as co-accelerators. R. A. Coleman. 2,423,007; June 24.
- Diastatic agent, Preparing a. L. J. Wickerham. 2,422,455; June 17.
- Diazo compounds of the pyrazolone series. A. W. Nies. 2,420,791; May 20.
- Diazo material, Stable. J. J. Chechak. 2,418,623; Apr. 8.
- Diazoamino compounds. C. W. Maynard, Jr., and E. G. Wiest. 2,422,359; June 17.
- Diazonium fluosilicates. R. H. Wiley. 2,423,359; July 1.
- Diazotype compositions and process, Light sensitive. A. Schoen. 2,416,021; Feb. 18.
- Diazotype layers containing thiourea derivatives of hydroxy benzene. W. H. von Glahn and L. N. Stanley. 2,432,549; Dec. 16.
- Diazotype print with hydroxy pyridone couplers. J. F. Morgan. 2,431,190; Nov. 18.
- Dibasic acids and derivatives of dibasic acids, Producing. M. S. Kharasch. 2,426,224; Aug. 26.
- Dibenzoylamino dianthrinyl carbazole dyestuffs. M. Scaleria and H. W. Stewart. 2,425,126; Aug. 5.
- Dicarbamates and making the same. M. A. T. Rogers. 2,431,140; Nov. 18.
- Dicarboxylic acid anhydrides, Manufacture of. F. Porter. 2,415,531; Feb. 11.
- Dichlorobenzalacetone. R. B. Seymour and D. T. Mowry. 2,425,269; Aug. 5.
- Dichlorobutenes, Transposition of. J. A. Otto. 2,422,252; June 17.
- Dichlorodifluoromethane, Production of. J. D. Galfree and L. B. Smith. 2,417,059; Mar. 11.
- Dichloropropylenes, Production of. H. A. Cheney and S. H. McAllister. 2,430,326; Nov. 4.
- Dichlorostyrenes, Production of. E. R. Erickson and J. C. Michalek. 2,432,737; Dec. 16.
- Dichromate bleach bath containing a wetting agent and bleaching therewith. R. O. Edgerton. 2,428,208; Sept. 30.
- Dicyandiamide-aldehyde product. M. J. Scott. 2,427,512; Sept. 16.
- Dicyandiamide maleate. J. H. Paden and A. F. MacLean. 2,433,393; Dec. 30.
- Dicyandiamide oxalates. J. H. Paden and A. F. MacLean. 2,433,391; Dec. 30.
- Dicyandiamide picrate. J. H. Paden and A. F. MacLean. 2,433,392; Dec. 30.
- Dicyandiamide, Preparing. J. L. Osborne. 2,416,542-5; Feb. 25.
- Dicyandiamide sulfonates. J. H. Paden and A. F. MacLean. 2,433,394; Dec. 30.
- Die. See—
- Wire coating die.
- Die. H. M. Bolston. 2,425,082; Aug. 5.
- Die. J. H. Gosnell, Jr. 2,421,935; June 10.
- Die. J. F. Kopczyński. 2,431,566; Nov. 25.
- Die and punch mechanism. F. K. Kirsch. 2,427,409; Sept. 16.
- Die assembly for presses, Forming or bending. R. A. Leblanc. 2,433,226; Dec. 23.
- Die castings, Forming undercut. L. H. Morin. 2,426,408; Aug. 26.
- Die, Circular cutting and ejecting. G. Mesaros. 2,433,058; Dec. 23.
- Die, Compression. H. P. Dupre. 2,426,492; Aug. 26.
- Die employed in reclaiming plastic bases of radio tubes. J. A. McFarlane, Jr. 2,429,836; Oct. 28.
- Die for coating wire. B. Mulvey. 2,433,673; Dec. 30.
- Die mechanism, Shaping, punching, and trimming. G. L. Dakin. 2,422,952; June 24.
- Die plate for flanging metallic sheets of variable size. H. B. Lindsay. 2,421,457; June 3.
- Die, Pulp molding. W. H. Randall. 2,424,189; July 15.
- Die removing device. A. Bolduc. 2,413,943-4; Jan. 7.
- Die set. G. O. Conner. 2,422,774-5; June 24.
- Die set. H. F. Scoville and F. B. Clay, Jr. 2,432,449; Dec. 9.
- Die, Wrapping. M. Greenbaum. 2,422,408; June 17.
- Dieing-out machine. T. H. Seely and F. E. Stratton. 2,421,809; June 10.
- Dieing-out machine. B. A. Strout. 2,426,287; Aug. 26.
- Dielectric. G. F. Coggin and J. F. Ahearn. 2,418,820; Apr. 15.
- Dielectric composition and shielded spark plug terminal construction and comprising same, Plastic. S. L. Bass. 2,428,608; Oct. 7.
- Dielectric materials. F. B. Hogdon. 2,426,609; Sept. 2.
- Dielectric sheet material. H. F. Miller and L. W. Foster. 2,414,320; Jan. 14.
- Dielectric wave guide system. M. D. Fiske. 2,422,189; June 17.
- Dielectric welding rod holder. R. M. Webster. 2,432,639; Dec. 16.
- Dienes by polymerization and depolymerization, Recovery of. T. F. Doumani, R. Deery, and A. C. McKinnis. 2,423,179; July 1.
- Dienes in presence of biological oxidation catalysts, Polymerization of conjugated. W. D. Stewart. 2,430,590; Nov. 11.
- Dienes, resin-forming aromatic hydrocarbons and non-resin-forming aromatic hydrocarbons, Production of. N. K. Chaney and E. L. Hall. 2,423,375; July 1.
- Dies and the like. J. V. Nelson. 2,423,791; July 8.
- Dies, Making. D. E. Dasher. 2,420,359; May 13.
- Diesel-electric vehicle with automatic weakening of the fields of the driving motors. O. Schlapfer. 2,433,628; Dec. 30.
- Diesel engine testing apparatus. J. D. Morgan and P. B. Levitt. 2,432,168; Dec. 9.
- Diesel fuel, Production of high quality. H. H. Meier. 2,415,700; Feb. 11.
- Differential. R. G. Le Tourneau. 2,415,293; Feb. 4.
- Differential convertible gasoline-diesel engine. L. N. Miller. 2,423,039; June 24.
- Differential pressure switch. A. E. Baak. 2,431,674; Dec. 2.
- Differential servo system. R. N. Lesnick and L. E. Matson, Jr. 2,418,306; Apr. 1.
- Differential voltage measuring circuit. H. T. Winchel and J. A. Wippert. 2,418,284; Apr. 1.
- Diffuser for centrifugal blowers. T. Jackson. 2,421,888; June 10.
- Diffuser for centrifugal compressors. R. Birmann. 2,419,669; Apr. 29.
- Difluoroethane, Preparation of. R. E. Burk, D. D. Coffman, and G. H. Kalb. 2,425,991; Aug. 19.
- Digester, Regenerative. E. B. Mallory. 2,430,519; Nov. 11.
- Digger and clutch therefor, Potato. A. E. Young. 2,426,545; Aug. 26.
- Digger and picker, Potato. E. D. Dahlman. 2,421,999; June 10.
- Digger, Peanut. T. Howard and E. R. Barr. 2,416,006; Feb. 18.
- Digger, Posthole. W. G. Zimmerlein and L. C. Siebert. 2,416,036; Feb. 18.
- Digger with power lift, Potato. A. E. Young. 2,417,580; Mar. 18.
- Digging and loading device for tractors or the like, Combined. M. McOscar. 2,415,515; Feb. 11.
- Digging apparatus, Peat. E. F. Colby. 2,415,728; Feb. 11.
- Digging attachment for tractors or the like. T. K. Andersen. Re. 22,855; Mar. 25.
- Digitalis, Propanediol solution of. M. R. Thompson, N. J. Accousti, and C. T. Ichniowski. 2,415,312; Feb. 4.
- Dihalophenyl alkyl carbinol pesticides. R. F. Ruthruff, O. J. Grummitt, and B. C. Dickinson. 2,430,586; Nov. 11.
- Dihydric alcohol esters of alpha-olefinic dicarboxylic acids with ethylenic monomers, Controlling polymerization of. W. R. Hoover and R. M. Paulsen. 2,429,060; Oct. 14.
- Dihydrondicyclopentadienyl-substituted formal. H. A. Bruson. 2,416,250; Feb. 18.
- Dihydropyran compounds, and their preparation. P. H. Williams and S. A. Ballard. 2,422,648; June 17.
- Dihydroxy benzene aldehyde adhesive, Bonding materials with a cold-setting. P. H. Rhodes. 2,414,414; Jan. 14.
- Diisocyanate-modified polyester, Curing of. W. Furness, L. E. Perrins, and W. F. Smith. 2,432,148; Dec. 9.
- Diketones, Production of. V. E. Haury and S. A. Ballard. 2,418,173; Apr. 1.
- Dimension gauging means. M. G. Wright. 2,417,148; Mar. 11.
- Dimension indicating gauge. M. Habuda. 2,415,741; Feb. 11.
- Dimers of alpha alkyl styrenes, Production of unsaturated. A. B. Hersberger and R. G. Heiligmann. 2,429,719; Oct. 28.
- Dimethylamino vitamin A and its conversion to vitamin A. N. A. Milas. 2,415,834; Feb. 18.
- Dimethyl butene from propylene, Preparing a. R. M. Hill and H. G. Codet. 2,417,872; Mar. 25.
- Dimethyl silicone elastic products prepared by the use of ferric chloride, Soluble. D. W. Scott. 2,430,032; Nov. 4.
- Dimethyl silicone polymer with boric oxide, Treating. R. R. McGregor and E. L. Warrick. 2,431,878; Dec. 2.
- Dimethylurea, Preparing. J. Rosin, and D. and S. Josephowitz. 2,414,211; Jan. 14.
- Dimpling machine. F. J. Styes. 2,418,736; Apr. 8.
- Dinitrobenzenes, Preparation of. J. H. Trepagnier and J. V. Vaughan. 2,419,976; May 6.
- Dinitroso diphenyl guanidines. J. A. Teicher and D. F. Twiss. 2,432,975; Dec. 16.
- Dinitrotoluene, Recovery of. L. F. Audrieth and A. H. Sweeney, Jr. 2,415,402; Feb. 11.



- Diolefin material in a gaseous mixture, Determination of. B. Ferguson, Jr. 2,423,377; July 1.
- Diolefin production. J. A. Samaniego and M. Souders, Jr. 2,427,925; Sept. 23.
- Diolefins by cracking of polymers, Production of. H. G. Schneider and V. F. Mistretta. 2,414,770; Jan. 21.
- Diolefins, Extraction of. C. E. Morrell and M. W. Swaney. 2,429,134; Oct. 14.
- Diolefins from hydrocarbon mixtures, Recovering. F. J. Soday. 2,423,414; July 1.
- Diolefins from hydrocarbon mixtures with cuprous ammonium formate solutions, Separation of. H. C. Thober and R. G. Bowers. 2,432,458; Dec. 9.
- Diolefins, Making. W. J. Toussaint and J. T. Dunn. 2,421,361; May 27.
- Diolefins, Manufacture of. J. P. Jones. 2,421,506; June 3.
- Diolefins, Producing. E. J. Houdry. 2,423,029; June 24.
- Diolefins, Production of. W. D. Seyfried. 2,416,227; Feb. 18.
- Diolefins utilizing methyl amines as azeotrope formers, Concentrating. W. Engls, S. N. Wik, and R. M. Roberts. 2,414,639; Jan. 21.
- Dioxanes, Preparing. K. H. Engel. 2,417,548; Mar. 18.
- Dioxanes, Substituted. F. A. French and L. N. Whitehill. 2,418,297; Apr. 1.
- Dioxolanes and preparing them. M. S. Kharasch. 2,428,805; Oct. 14.
- Dipotassium monosodium ferricyanide, Preparation of. R. Cravell. 2,415,791; Feb. 11.
- Dipper construction, Excavator. W. S. Burdick and K. Schneider. 2,427,897; Sept. 23.
- Dipper tooth. G. W. Mork. 2,433,001; Dec. 23.
- Dipping board. B. F. Derryberry. 2,415,127; Feb. 4.
- Direct-current generator. W. H. T. Holden and E. R. Morton. 2,418,471; Apr. 8.
- Direction and distance indicating system. W. F. Hoisington. 2,426,217; Aug. 26.
- Direction control device. G. G. Ohlendorf. 2,425,558; Aug. 12.
- Direction-controlling apparatus. S. B. White. 2,413,739; Jan. 7.
- Direction finder. H. T. Budenbom. 2,414,798; Jan. 28.
- Direction finder. H. T. Budenbom. 2,423,437; July 8.
- Direction finder. H. G. Busignies. 2,426,175-6; Aug. 26.
- Direction finder. W. L. Carlson. 2,419,987; May 6.
- Direction finder. D. G. C. Luck. 2,413,982; Jan. 7.
- Direction finder. L. E. Norton. 2,422,123; June 10.
- Direction finder. L. E. Norton. 2,425,385-7; Aug. 12.
- Direction finder. L. E. Norton. 2,432,926; Dec. 16.
- Direction finder, Cathode-ray tube. H. E. Rhea. 2,423,518; July 8.
- Direction finder, High-frequency. C. F. Edwards and K. G. Jansky. 2,419,946; May 6.
- Direction finder, Pulse. S. Godet. 2,417,248; Mar. 11.
- Direction finder, Radiant-energy signal. B. D. Loughlin. 2,429,519; Oct. 21.
- Direction finder, Radiated signal. J. F. Craib. 2,431,989; Dec. 2.
- Direction finder, Radio. D. S. Bond. 2,422,073; June 10.
- Direction finder, Reflected wave. E. M. Deloraine, E. Labin, and H. G. Busignies. 2,426,183; Aug. 26.
- Direction finder, Reflected wave. H. E. Rhea. 2,423,661; July 8.
- Direction finder, Reflected wave. H. E. Rhea and F. P. Wipff. 2,423,519; July 8.
- Direction finder system. H. G. Busignies. 2,424,967; Aug. 5.
- Direction finder system, Pulse. B. Shmurak and G. D. Hulst, Jr. 2,423,523; July 8.
- Direction finding. C. W. Hansell. 2,419,994; May 6.
- Direction finding, Sonic. A. A. Stuart, Jr. 2,422,446; June 17.
- Direction finding system. J. H. Bollman. 2,418,156; Apr. 1.
- Direction finding system. H. G. Busignies. 2,419,671; Apr. 29.
- Direction finding system. H. G. Busignies and A. G. Richardson. 2,421,009; May 27.
- Direction finding system. C. W. Hansell. 2,422,096; June 10.
- Direction indicating apparatus. E. Labin. 2,423,104; July 1.
- Direction signal for vehicles. C. D. Schurter. 2,422,988; June 24.
- Directional gyros, Restoring. G. V. Rylsky. 2,416,046; Feb. 25.
- Directional radio antenna lobe switching system. W. H. C. Higgins and C. A. Warren. 2,424,982; Aug. 5.
- Directional signal system for vehicles. W. R. Curtiss. 2,432,388; Dec. 9.
- Directional switch operating mechanism. C. W. Woods. 2,423,361; July 1.
- Directive antenna. W. W. Mieher and J. D. Mallett. 2,429,640; Oct. 28.
- Dirt scraping and hauling vehicle. E. H. Lichtenberg and F. B. Robb. 2,420,319; May 13.
- Disappearing hanger hook. O. A. Gaudino. 2,425,527; Aug. 12.
- Disazo compounds. G. J. Taylor. 2,420,630; May 13.
- Disazo dyes containing higher acylamino group. H. C. Olpin, E. Stanley, and C. S. Argyle. 2,420,008; May 6.
- Dis-azo dyes for color photography. G. J. Taylor. 2,420,631; May 13.
- Disazo dyes from dihydroxy benzidine. F. Straub, J. Brassel, and P. Pleth. 2,424,066; July 15.
- Disazo dyes from dihydroxy benzidines. F. Straub, J. Brassel, and P. Pleth. 2,426,977; Sept. 9.
- Disc brake. T. Barish. 2,417,855-7; Mar. 25.
- Disc brake. E. F. Deady. 2,417,863; Mar. 25.
- Disc mounting. J. Mader. Re. 2,924; Oct. 7.
- Disc tiller. H. M. Johnston. 2,426,354; Aug. 26.
- Discs, Manufacture of rectifier. E. A. Richards, L. J. Ellison, and F. Gray. 2,417,839; Mar. 25.
- Discs, Traction. C. M. Savrda and W. H. Hunt. 2,427,626; Sept. 16.
- Discharge apparatus, Electron. F. D. Goodchild and C. H. Foulkes. 2,431,638; Nov. 25.
- Discharge device and circuit therefor, Electric. T. E. Foulke. 2,420,942; May 20.
- Discharge device, Electric. J. E. Beggs. 2,430,856; Nov. 18.
- Discharge device, Electric. J. G. W. Mulder. 2,431,136; Nov. 18.
- Discharge device, Electric. E. B. Noel. 2,427,737; Sept. 23.
- Discharge device, Electric. W. C. White. 2,424,526; July 22.
- Discharge device employing resonators, Electron. A. V. Haefl. 2,432,571; Dec. 16.
- Discharge device for high frequency, Electron. C. V. Litton. 2,431,337; Nov. 25.
- Discharge device for the lower stratum component from fluid-pervious reciprocating stratifying tables. B. M. Bird. 2,426,337; Aug. 26.
- Discharge device, Gaseous. K. H. Kingdon and E. J. Lawton. 2,416,927; Mar. 4.
- Discharge device having constant starting characteristics, Electrical gaseous. P. W. Stutsman. 2,419,236; Apr. 22.
- Discharge device, Multianode, gas-filled. J. R. Desch and R. E. Mumma. 2,432,608; Dec. 16.
- Discharge device of the gas filled type, Electric. S. R. Fitzmorris. 2,428,661; Oct. 7.
- Discharge device, Space. M. S. Glass, V. L. Ronci, and E. J. Walsh. 2,414,099; Jan. 14.
- Discharge device, Spark gap. C. Depew, W. A. Depp, and A. N. Luce. 2,422,659; June 24.
- Discharge device, Ultra high frequency electric. J. M. Lafferty. 2,421,273; May 27.
- Discharge head. F. B. Allen. 2,425,779; Aug. 19.
- Discharge pressure controlled hydraulically operated dispensing pump. G. H. Palm. 2,416,947; Mar. 4.
- Discharge table. F. Z. Fouse. 2,421,874; June 10.
- Discharger, Feeding machine. F. Ulrich. 2,416,804; Mar. 4.
- Discharging device, Cargo. E. R. Cunningham. 2,426,862; Sept. 2.
- Disconnecter for firearms. E. G. Reising. 2,422,854; June 24.
- Discriminative alkali halide screen. G. R. Fonda. 2,416,574; Feb. 25.
- Discriminator circuit. D. D. Grieg. 2,419,548; Apr. 29.
- Discriminator, Electronic. W. R. Ferris. 2,422,088; June 10.
- Dish washer. T. M. Matlack and G. D. Hutchinson. 2,418,360; Apr. 1.
- Dishwashing apparatus. C. S. Dayton. 2,432,291; Dec. 9.
- Dishwashing apparatus. L. A. Kempton. 2,425,620; Aug. 12.
- Dishwashing device, Portable. R. Krebs. 2,425,812; Aug. 19.
- Dishwashing machine. V. R. Abrams. 2,426,291; Aug. 26.
- Dishwashing machine. S. G. Burt-Wells. 2,429,090; Oct. 14.
- Dishwashing machine. J. Pedersen. 2,424,770; July 29.
- Dishwashing machine. J. H. Powers. 2,418,366; Apr. 1.
- Dishwashing machine. R. W. Wilson. Re. 22,936; Nov. 18.
- Disher, Ice cream. A. Gordon and S. G. Mozolewski. 2,427,095; Sept. 9.
- Disinfectants, Seed and plant. K. G. Nolan and I. Hechenbleikner. 2,419,888; Apr. 29.
- Disinfectant, Toilet. J. M. Jensen and B. Vale. 2,424,174; July 15.
- Disintegrator screen. C. W. Lanter. 2,420,670; May 20.
- Disk brake. W. H. DuBois. 2,423,011; June 24.
- Disk brake. W. H. Du Bois. 2,423,881; July 15.
- Disk brake. F. C. Frank. 2,423,882; July 15.
- Disk, Harrow. W. H. Farr. 2,416,742; Mar. 4.
- Disk, Resilient abrasive. C. C. March. 2,414,474; Jan. 21.
- Disk, Selenium rectifier. S. S. Frye. 2,422,192; June 17.
- Disk spring assembly. H. J. Stewart. 2,417,715; Mar. 18.
- Disk unit, Abrasive. A. J. Doermann. 2,425,368; Aug. 12.
- Disks for airplanes, Manufacturing clutch. M. Hasimoto. 2,415,097; Feb. 4.
- Dismountable endless tread tractor unit for power vehicles. C. S. Busque. 2,426,816; Sept. 2.



- Dispenser: *See*—  
 Adhesive tape dispenser.  
 Automatic article dispenser.  
 Beverage dispenser.  
 Cigarette dispenser.  
 Coin dispenser.  
 Condiment dispenser.  
 Hairdressing dispenser.  
 Hairpin dispenser.  
 Ice cube dispenser.  
 Liquid-measuring dispenser.  
 Milk strainer pad dispenser.  
 Newspaper dispenser.  
 Oil dispenser.  
 Paper moistening dispenser.  
 Dispenser for automatic photographic machines, Plate. D. Pollack. 2,423,404; July 1.  
 Dispenser for cigarettes. H. E. Musselman and W. H. Buck. 2,425,553; Aug. 12.  
 Dispenser for paper cups. W. E. Amberg. 2,414,847; Jan. 28.  
 Dispenser for phonograph records, Selective. H. P. Silverman. 2,427,628; Sept. 16.  
 Dispenser for roll paper, Sanitary. D. A. Neuman. 2,416,115; Feb. 18.  
 Dispenser for sticklike articles. J. C. Waldo. 2,428,132; Sept. 30.  
 Dispenser for tableware. W. J. Gibbs and E. F. Smith. 2,421,782; June 10.  
 Dispenser, with means for vibrating a conveyor type trap chamber. L. Vaughan. 2,416,553; Feb. 25.  
 Dispenser with rotary conveyor type trap chamber. W. A. Wood. 2,424,675; July 29.  
 Dispenser with trap chamber operated by tilting the container. L. Livas. 2,428,233; Sept. 30.  
 Dispensing apparatus. R. G. Birr. 2,417,731; Mar. 18.  
 Dispensing apparatus. H. Carew. 2,433,736; Dec. 30.  
 Dispensing apparatus. J. De Luca. 2,422,226; June 17.  
 Dispensing apparatus. H. H. Foltz. 2,423,969; July 15.  
 Dispensing apparatus. H. L. Hagen. 2,414,375; Jan. 14.  
 Dispensing apparatus. C. F. Pease. 2,425,487; Aug. 12.  
 Dispensing apparatus. S. D. Polsen and S. H. Nelson. 2,426,707; Sept. 2.  
 Dispensing apparatus and method of treating popped corn. S. Pinanski. 2,423,342; July 1.  
 Dispensing apparatus for dispensing beverages of mixed liquids. R. Yuza. 2,415,571; Feb. 11.  
 Dispensing apparatus for plastic material. W. E. Sherbondy. 2,420,203; May 6.  
 Dispensing apparatus, Liquid. C. F. Prangley. 2,423,382; Oct. 7.  
 Dispensing apparatus, Liquid. C. F. Prangley and R. R. Trexler. 2,428,363; Oct. 7.  
 Dispensing apparatus, Liquid. R. R. Trexler. 2,416,361; Feb. 25.  
 Dispensing apparatus, Liquid. C. C. Waite, P. F. Bender and L. Arnett. 2,427,429; Sept. 16.  
 Dispensing apparatus, Liquid. V. W. West. 2,428,729; Oct. 7.  
 Dispensing apparatus, Newspaper. L. and C. W. Hatcher. 2,432,415; Dec. 9.  
 Dispensing cabinet. W. J. O'Neil. 2,426,787; Sept. 2.  
 Dispensing container. E. C. Berg. 2,426,856; Sept. 2.  
 Dispensing container. M. I. Williamson. 2,431,786; Dec. 2.  
 Dispensing device. E. Arenson. 2,423,166; July 1.  
 Dispensing device. A. Hammerstein. 2,425,313; Aug. 12.  
 Dispensing device. C. E. Munson. 2,431,192; Nov. 18.  
 Dispensing device, Bread. H. L. and H. C. Hilton, and H. L. Hargett. 2,426,999; Sept. 9.  
 Dispensing device, Concealed lubricant. K. S. Clapp. 2,416,819; Mar. 4.  
 Dispensing device having a roller with discharge controller, Material. J. L. Hipple. 2,424,168; July 15.  
 Dispensing device, Tiltable trap chamber powder. E. M. Schara. 2,422,263; June 17.  
 Dispensing device with flow restrictor and frangible outlet closure. H. L. Norway. 2,423,792; July 8.  
 Dispensing device with tipping trap chamber. C. F. Eaton. 2,422,719; June 24.  
 Dispensing machine. N. D. Ashwood. 2,419,050; Apr. 15.  
 Dispensing machine, Article. W. E. Callison. 2,429,510; Oct. 21.  
 Dispensing machine, Plural discharge assistant. G. and C. A. Almgren. 2,417,284; Mar. 11.  
 Dispensing means for pellets. H. J. McLaughlin. 2,433,472; Dec. 30.  
 Dispensing mechanism. M. Glassner. 2,419,351; Apr. 22.  
 Dispensing package. T. Carr. 2,421,141; May 27.  
 Dispensing package. W. J. Wells. 2,422,605; June 17.  
 Dispensing package for commodity sticks. G. Saint Clair. 2,422,705; June 24.  
 Dispensing package of material to be molded. G. W. Wacker. 2,414,781; Jan. 21.  
 Dispensing tube. H. F. Waters. 2,432,462; Dec. 9.  
 Dispensing unit. S. Leschin. 2,428,231; Sept. 30.  
 Dispensing fog over landing fields. P. J. Fonos. 2,426,822; Sept. 2.  
 Dispersions. B. Petersen. 2,422,633; June 17.  
 Dispersions of aromatic amines and preparing them, Stable. B. M. Sturgis. 2,432,830; Dec. 16.  
 Displacement electric water heater. F. Palm. 2,428,466; Oct. 7.  
 Displacement-type electric water heater. E. Losee. 2,422,492; June 17.  
 Display and storage fixture, Refrigerator. W. Raskin. 2,428,243; Sept. 30.  
 Display cabinet. B. Fish, C. E. Taylor, and J. C. Van Cleaf. 2,430,166; Nov. 4.  
 Display card. A. M. Cohan. 2,417,677; Mar. 18.  
 Display card, Merchandise. M. Loeb. 2,424,762; July 29.  
 Display case. Z. Black. 2,419,624; Apr. 29.  
 Display container. R. Guyer. 2,430,609; Nov. 11.  
 Display device. W. Tingdale. 2,422,760; June 24.  
 Display device, Collapsible cardboard. J. V. Horr. 2,416,754; Mar. 4.  
 Display device, Foldable sheet material. E. L. Smith. 2,431,835; Dec. 2.  
 Display device formed of sheet material. E. L. Smith and C. Wasserman. 2,427,629; Sept. 16.  
 Display device having animation effects, Illuminated. F. Hotchner. 2,419,216; Apr. 22.  
 Display device with rotatable ring-shaped member, Changeable. J. B. Kamm. 2,431,645; Nov. 25.  
 Display form, Adjustable trouser. J. Mayer. 2,418,083; Mar. 25.  
 Display form for shoes. J. Fitzpatrick. 2,423,445; July 8.  
 Display package. W. H. Taylor, L. W. Pierce, and G. H. Andrews. 2,415,151; Feb. 4.  
 Display. Retro-reflective animation. F. Hotchner. 2,432,896; Dec. 16.  
 Display stand. H. H. Moreton. 2,416,879; Mar. 4.  
 Disposal apparatus. L. Spinks. 2,414,774; Jan. 21.  
 Disposal unit, Garbage and refuse. W. J. Davis. 2,429,673; Oct. 28.  
 Dissector tube. C. C. Larson. 2,422,244; June 17.  
 Distance by electromagnetic waves, Determining. A. H. Reeves. 2,431,344; Nov. 25.  
 Distance calculator, Drafting machine rolling contact. J. H. Scott. 2,421,581; June 3.  
 Distance indicator. R. C. Sanders, Jr. 2,422,134; June 10.  
 Distance measuring. H. C. Hayes, H. M. Trent, and T. F. Jones. 2,428,799; Oct. 14.  
 Distance measuring apparatus. I. Wolff. 2,422,157; June 10.  
 Distance measuring system. R. C. Newhouse. 2,426,232; Aug. 26.  
 Distance measuring system. J. C. Schelleng. 2,421,394; June 3.  
 Distillation apparatus and pressure therefor, Vacuum. F. Todd. 2,419,042; Apr. 15.  
 Distillation apparatus for peppermint hay, Vehicle-mounted. C. E. Hermo and W. H. Hauptert. 2,424,824; July 29.  
 Distillation process bodying counter flow of solid heating medium, Destructive. E. A. Johansson. 2,420,376; May 13.  
 Distilling apparatus, Solar salt water. H. S. Bimpson and E. J. Palmer. 2,424,142; July 15.  
 Distortion, straightening distorted objects, and/or altering the shape of metal objects, Controlling. R. F. Arnoldy. 2,428,825; Oct. 14.  
 Distributing apparatus for concrete mixers. S. Shafer, Jr. 2,414,771; Jan. 21.  
 Distributing apparatus, Liquid. A. M. Shoresman. 2,428,922; Oct. 14.  
 Distributing apparatus, Material. J. A. Wagner. 2,415,543; Feb. 11.  
 Distribution system, Electrical. J. E. P. Burge. 2,422,336; June 17.  
 Distribution system, Electrical. G. A. Matthews. Re. 22,873; Apr. 29.  
 Distributor. J. R. Frei. 2,418,504; Apr. 8.  
 Distributor. K. A. Harmon. 2,433,757; Dec. 30.  
 Distributor construction. W. L. Carlson. 2,413,743; Jan. 7.  
 Distributor, Fertilizer. C. A. Breeze. 2,416,898; Mar. 4.  
 Distributor, Fertilizer. H. H. Meincke. 2,418,271; Apr. 1.  
 Distributor for charging iron blast furnaces, Sealing means for revolving. A. Mohr, Jr., and J. P. Grilli. 2,429,481; Oct. 21.  
 Distributor for internal-combustion engines, Ignition. M. Mallory. 2,415,510; Feb. 11.  
 Distributor for internal-combustion engines, Ventilated ignition. M. Mallory. 2,415,511; Feb. 11.  
 Distributor for lime, fertilizers, and similar materials for gardening. J. G. Mount. 2,433,059; Dec. 23.  
 Distributor for refrigeration system. E. S. H. Baars. 2,425,452; Aug. 12.  
 Distributor, Lubricant. J. J. Hennessy. 2,425,186; Aug. 5.  
 Distributor, Planetary gear ignition. E. K. von Mertens. 2,427,583; Sept. 16.  
 Distributor valve. J. C. Evans. 2,433,208; Dec. 23.  
 Disulfide and preparing the same, Mixed. R. H. Cooper. 2,415,627; Feb. 11.  
 Disulfides, High molecular weight organic. W. A. Schulze and W. W. Crouch. 2,415,852; Feb. 18.  
 Ditching machine. W. K. Holleron. 2,421,883; June 10.  
 Ditching machine. E. H. Lichtenberg. 2,425,746; Aug. 19.  
 Ditching machine. E. C. Smith. 2,426,847; Sept. 2.



- Di (tertiary alkyl) peroxide polymerization catalysts. W. E. Vaughan and F. F. Rust. 2,426,476; Aug. 26.
- Dithioglycerols, Stabilizing. G. W. Rigby. 2,423,344; July 1.
- Dithiopyrimidines and preparing same. G. H. Hitchings and G. B. Ellison. 2,415,793; Feb. 11.
- Dive angle indicator. R. C. Harrington, Jr. 2,420,620; Oct. 28.
- Diver's light. J. F. Ekleberry. 2,420,362; May 13.
- Diversity combining circuit. M. G. Crosby. 2,420,868; May 20.
- Diverter valve. G. F. Hurst. 2,415,285; Feb. 4.
- Diverting switch. F. W. Borse and H. S. Hermanson. 2,416,814; Mar. 4.
- Divider and detector, Combined frequency. M. G. Crosby. 2,429,747; Oct. 28.
- Divider and making, Nonlinear voltage. H. H. Raymond. 2,428,093; Sept. 30.
- Dividing machine, Record controlled. F. E. Hamilton and B. M. Durfee. 2,424,091; July 15.
- Divination box. H. G. Sundheim. 2,425,965; Aug. 19.
- Di-histidine, and intermediates therefor, Preparing. N. F. Albertson and S. Archer. 2,420,641; May 20.
- Dobby, Double-lift open-shed. G. Wiget. 2,431,597; Nov. 25.
- Doctor mechanism for papermaking rolls and cylinders. F. H. Goyette. 2,418,706; Apr. 8.
- Doll. M. P. Exline. 2,429,928; Oct. 28.
- Doll. E. G. Winterfeld. 2,424,785; July 29.
- Doll eye. D. Cohn. 2,425,510; Aug. 12.
- Doll eyes, Movable. M. Holestine. 2,415,689; Feb. 11.
- Doll house. R. H. Keston. 2,428,628; Oct. 7.
- Doll with magnetic eye movement. G. E. Campbell. 2,427,442; Sept. 16.
- Dolly. W. H. Ferguson. 2,416,916; Mar. 4.
- Dolly. P. N. Sitton. 2,426,244; Aug. 26.
- Dolly, Trailer. W. B. Johnson. 2,431,331; Nov. 25.
- Domestic and central-heating boiler. A. J. Watts. 2,414,782; Jan. 21.
- Domestic appliance. K. Clark. 2,422,395; June 17.
- Domestic water tube boiler. E. C. Webb. 2,429,904; Oct. 28.
- Domino score rack. E. Friedrich. 2,415,630; Feb. 11.
- Door: See—
- Automatic garage door. Overhead boxcar door.
  - Bus door. Rolling door.
  - Car door. Water-cooled furnace door.
  - Furnace door.
  - Overhead and swingably mounted balanced door.
- Door actuating mechanism. G. W. Slopá. 2,416,459; Feb. 25.
- Door and step arrangement, Trap. A. G. Dean. 2,415,341; Feb. 4.
- Door bottom closing and sealing device. W. A. Beck. 2,433,331; Dec. 30.
- Door check and closer, Combined. H. Brown. 2,421,595; June 3.
- Door check bracket. J. Hines. 2,416,316; Feb. 25.
- Door construction. J. J. Kuettel. 2,433,767; Dec. 30.
- Door control apparatus. C. Blum. 2,422,770; June 24.
- Door controller. F. Pfent. 2,414,894; Jan. 28.
- Door fastener. C. Blum. 2,422,771; June 24.
- Door handle. G. V. Jakeway. 2,433,277; Dec. 23.
- Door handle. G. V. Jakeway. 2,433,562; Dec. 30.
- Door handle and latch construction. F. E. Beems and E. D. Scott. 2,427,436; Sept. 16.
- Door handle, drawer pull, and like hardware articles. I. S. Keeler and G. V. Jakeway. 2,414,648; Jan. 21.
- Door keeper, Overhead garage. C. H. Rix. 2,426,052; Aug. 19.
- Doorknob. S. P. Morgen. 2,430,727; Nov. 11.
- Door latch. A. Claud-Mantle. 2,427,386; Sept. 16.
- Door latch. H. C. Gilbert. 2,420,285; May 6.
- Door latch. J. H. Roethel. 2,427,511; Sept. 16.
- Door latch and handbag shelf, Combination. C. M. Woodward. 2,415,122; Feb. 4.
- Door latch and operating means, Pilot. H. H. Wolfe. 2,430,901; Nov. 18.
- Door latch operating mechanism for railway cars. E. O. Lunde. 2,430,517; Nov. 11.
- Door lock. W. R. Schlage. 2,413,733; Jan. 7.
- Door lock. H. G. Voight and W. S. Edwards. 2,424,782; July 29.
- Door locking and closing device. W. A. Beauchamp. 2,424,381; July 22.
- Doorknob. W. R. Schlage. 2,433,240; Dec. 23.
- Door operating mechanism for dump cars. J. J. Kordish and M. Trotta. 2,428,629; Oct. 7.
- Door pull and stop. M. C. Crawford. 2,430,974; Nov. 18.
- Door stop. W. Hilton. 2,419,449; Apr. 22.
- Door stop. J. O. Pumphrey. 2,413,782; Jan. 7.
- Door, Stop. J. D. Youther. 2,414,404; Jan. 14.
- Doorstop, Convertible. G. Hagstrom. 2,432,150; Dec. 9.
- Door structure, Counterbalanced. H. A. Davidson. 2,425,365; Aug. 12.
- Door unit. A. Claud-Mantle. 2,429,395; Oct. 21.
- Door with door lock, Spring return push. J. R. Newkirk. 2,419,964; May 6.
- Double-checking molding press. W. Strauss. 2,423,268; July 1.
- Double pinion application of power. De V. V. Carter. 2,428,142; Sept. 30.
- Dough and apparatus therefor, Depositing. B. Bader. 2,429,042; Oct. 14.
- Dough and like plastic material, Conveying. A. R. Palmer. 2,428,722; Oct. 7.
- Doughnut forming device. W. R. Cottingham. 2,416,470; Feb. 25.
- Dough working machine. E. C. Palmer. 2,431,073; Nov. 18.
- Dough working process. E. C. Palmer. 2,431,074; Nov. 18.
- Down-draft furnace. J. R. Fellows. 2,433,036; Dec. 23.
- Downdraft magazine heater. H. H. Fleer. 2,422,959; June 24.
- Downflow forced draft air heater. K. P. Russell. 2,431,772; Dec. 2.
- Draft and bulging gear. J. H. Link. 2,413,837; Jan. 7.
- Draft control mechanism. G. A. Short. 2,417,571; Mar. 18.
- Draft coupling. E. H. Hershowitz. 2,426,099; Aug. 19.
- Draft gear. W. E. Gray. 2,417,410; Mar. 18.
- Draft gear. E. P. Kinne. 2,416,928; Mar. 4.
- Draft hitch. H. R. Forney. 2,415,479; Feb. 11.
- Draft regulator. E. A. Field, Jr. 2,433,749; Dec. 30.
- Draft regulator. J. W. Miller. 2,416,765; Mar. 4.
- Drafting and measuring instrument, Universal. W. Morris. 2,423,786; July 8.
- Drafting apparatus. W. H. Murphy. 2,424,840; July 29.
- Drafting board. H. E. Page. 2,414,606; Jan. 21.
- Drafting device for drawing projections. J. T. Ivy. 2,419,078; Apr. 15.
- Drafting device, Perspective. A. Waldorf. 2,419,610; Apr. 29.
- Drafting instrument. G. C. and M. T. Abruzzi. 2,418,860; Apr. 15.
- Drafting instrument. H. F. Ebert and A. W. Keuffel. 2,428,699; Oct. 7.
- Drafting instrument. R. A. Hendry. 2,428,310; Sept. 30.
- Drafting-machine aligning tool. A. F. Emrich. 2,426,991; Sept. 9.
- Drafting mechanism, Long staple. B. J. Zalkind. 2,426,425; Aug. 26.
- Drain fitting, House. S. Cavalieri. 2,427,258; Sept. 9.
- Drain for boats, Bilge. C. L. Buntun. 2,421,479; June 3.
- Drain for floating roofs, Flexible. R. C. Ulm. 2,422,322; June 17.
- Drain mechanism. P. E. Geldhof and L. Ringer. 2,414,196; Jan. 14.
- Drainpipe cleaner. P. Gavin. 2,426,265; Aug. 26.
- Drain plug. M. B. Krall. 2,420,177; May 6.
- Drape fixture. L. M. Dixon. 2,419,486; Apr. 22.
- Drape hanger. C. B. Mohr and L. F. Krause. 2,433,527; Dec. 30.
- Draperies and the like. C. Bashwiner. 2,415,330; Feb. 4.
- Draught excluder, Self-operating. F. C. Wynne. 2,422,607; June 17.
- Drawbar carrier for railroad car coupling mechanism. W. B. Dean. 2,431,864; Dec. 2.
- Drawbar unit. D. E. Halner. 2,417,646; Mar. 18.
- Draw mechanism of straight bar knitting machines. J. E. Lynam and P. G. McCarthy. 2,428,465; Oct. 7.
- Draw unit. C. F. Scherer and C. C. Popp. 2,424,712; July 29.
- Drawworks brake. G. R. Tremolada. 2,414,677; Jan. 21.
- Drawer and rack, Combined. J. H. Benson. 2,418,919; Apr. 15.
- Drawer guiding means. W. M. Baird. 2,418,244; Apr. 1.
- Drawing board. J. U. Perez. 2,424,630; July 29.
- Drawing instrument. G. A. Wessén. 2,433,313; Dec. 23.
- Drawing instrument, Perspective. G. M. Nosser. 2,419,725; Apr. 29.
- Drawing mechanism for spinning and roving frames. E. C. Gwaltney, R. M. Jones, and J. Rabasa. 2,430,611; Nov. 11.
- Drawing mechanism for textile slivers. R. B. Solanas. 2,422,444; June 17.
- Drawing medium and making the same. M. D. McIntosh. 2,425,068; Aug. 5.
- Drawing reproduction. R. J. Wirshing and F. E. Smith. 2,427,938; Sept. 23.
- Drawing roll, Spinning frame. E. J. Courtne. 2,415,578; Feb. 11.
- Dredge-hoisting apparatus. J. R. Nelson. 2,417,121; Mar. 11.
- Dress. M. B. Hayes. 2,413,826; Jan. 7.
- Dress. M. Nitzberg. 2,425,635; Aug. 12.
- Dress constructions and shoulder pad therefor. F. Wein. 2,421,736; June 3.
- Dress, Lady's. N. Lehman. 2,429,188; Oct. 14.
- Dress or other garment. J. E. Pelton. 2,433,154; Dec. 23.
- Dresser for grinding wheels, Involute form. C. Peters. 2,432,335; Dec. 9.
- Dresser, Grinder wheel. E. M. Darland and C. Kassebaum. 2,421,143; May 27.
- Dresser, Grinding wheel. A. A. La Pointe. 2,423,943; July 15.
- Dressing agents employing a hydroxy phenyl diazonium compound, Seed. W. Bonrath and E. Urbschat. 2,421,369; June 3.
- Drier: See—
- Adjustable hair drier. Portable hair drier.
  - Bottle drier. Rotary clothes drier.
  - Collapsible clothes drier. Sock drier.
  - Dryer. Tire drier.
  - Hair drier.



- Drier and forming device. A. R. and R. J. Ladendorff. 2,426,936; Sept. 2.
- Drier and heater. W. E. Drewes. 2,423,587; July 8.
- Drier felt seam securing strip and seam formed therewith. J. Roslund. 2,428,097; Sept. 30.
- Drier for hats, Centrifugal. W. Lindsey. 2,425,546; Aug. 12.
- Drier for web with radiant heater, Drum. F. W. Adams. 2,429,338; Oct. 21.
- Drier having plural compartments and drying gas recirculation, Conveyor. L. F. Clark. 2,432,964; Dec. 16.
- Drier including means for circulating the drying gas over the evaporator and condenser coils of a refrigerating device, Drum clothes. T. R. Smith. 2,418,239; Apr. 1.
- Drier including vertically spaced, horizontal roller conveyors and means for positively circulating drying gases upwardly through the conveyors and about the material supported on the conveyors, Closed chamber. B. Wilson. 2,418,683; Apr. 8.
- Drier structure, Endless conveyor. B. G. Freund. 2,415,738; Feb. 11.
- Drier with air recirculating means, Air. F. La Foriyes. 2,420,251; May 6.
- Drier with air recirculating means, Warp. P. R. Rose. 2,426,415; Aug. 26.
- Drier with collapsible supports, Clothes. A. L. Palmer. 2,419,226; Apr. 22.
- Drift meter. S. Doba, Jr. 2,418,465; Apr. 8.
- Driftmeter. J. R. James and R. Keyzer-André. 2,418,264; Apr. 1.
- Drill: See—
- |                           |                   |
|---------------------------|-------------------|
| Center drill.             | Gun drill.        |
| Chuck and abrasive drill. | Impact drill.     |
| Diamond drill.            | Safety drill.     |
| Earth drill.              | Twist drill.      |
| Fabric drill.             | Woodpecker drill. |
| Grain drill.              |                   |
- Drill and cutter, Combined. H. C. Wilson. 2,429,382; Oct. 21.
- Drill and live and dead center, Convertible, center. J. H. Schmidt, Jr. 2,430,997; Nov. 18.
- Drill bit pressure gauge. D. Silverman and T. Gilmartin. 2,422,806; June 24.
- Drill bit, Separable. J. B. Baker, Jr. 2,421,826; June 10.
- Drill bits, Method of producing. M. G. Wright. 2,428,823; Oct. 14.
- Drill control, Air and hydraulic. R. E. Jenkins. 2,430,019; Nov. 4.
- Drill feed means, Percussion. V. E. Hastings. 2,426,686; Sept. 2.
- Drill grinding tool. N. T. Lovstrom. 2,417,116; Mar. 11.
- Drill head, Automatic. P. S. Claus and E. J. Readman. 2,421,541; June 3.
- Drill holes, Method and apparatus for logging. L. Dillon. 2,425,868-9; Aug. 19.
- Drill press. L. G. Barfels. 2,429,741; Oct. 28.
- Drill press. J. A. Cupler and C. W. Truxell, Jr. 2,420,521; May 13.
- Drill press. J. Tate. 2,428,049; Sept. 30.
- Drill press attachment. A. H. Skwierawski. 2,426,124; Aug. 19.
- Drill puller. I. D. Crawford. 2,416,288; Feb. 25.
- Drill, reamer and countersink, Double worker. A. Melniczak. 2,430,522; Nov. 11.
- Drill sampling device. T. C. Olsen. 2,420,905; May 20.
- Drill steel rod. C. P. Hammond and A. McK. Cameron. 2,424,092; July 15.
- Drill support. F. De Curtis. 2,416,912; Mar. 4.
- Driller, Diamond die. F. Crossman, E. A. Southam, and G. J. Ruhl. 2,417,811; Mar. 25.
- Drilling apparatus, Vibratory. J. C. O'Connor. 2,420,793; May 20.
- Drilling fluids and use. C. R. Wagner. 2,425,768; Aug. 19.
- Drilling machine, Co-ordinate. H. Hauser. 2,428,971; Oct. 14.
- Drilling machine, Diamond die. A. C. van den Berg and H. Kenyon. 2,420,920; May 20.
- Drills, Method and apparatus for point-grinding. K. Kronwall. 2,424,470; July 22.
- Drive: See—
- |                      |                    |
|----------------------|--------------------|
| Aircscrew drive.     | Rotary wing drive. |
| Calendar reel drive. |                    |
- Drive. S. J. Mikina. 2,428,807; Oct. 14.
- Drive and control system, Ship. W. E. Brill and E. R. Gasser. 2,420,856; May 20.
- Drive and pitch control mechanism for helicopter rotors. T. H. Thompson. 2,427,981; Sept. 23.
- Drive assembly, Rear axle. D. G. Roos. 2,417,214; Mar. 11.
- Drive device. F. L. Alben. 2,424,543; July 29.
- Drive for a magnetic recording medium, Reversible. M. Camras. 2,418,541; Apr. 8.
- Drive for glove turners, Power. D. G. Leach. 2,426,698; Sept. 2.
- Drive for hoists or the like, Hydraulic. R. E. Gignoux. 2,414,197; Jan. 14.
- Drive for invalid equipment, Dual. J. G. Hausman. 2,427,782; Sept. 23.
- Drive for liquid treating apparatus, Fraction. C. H. Nordell. 2,418,189; Apr. 1.
- Drive for phonographs, Turntable. H. L. Hartman. 2,421,910; June 10.
- Drive for registers, Magnetic snap-over. H. A. Bakke. 2,416,081; Feb. 18.
- Drive for sawmill set works, Power. P. Orr. 2,431,580; Nov. 25.
- Drive for sewing machines, Motor. M. G. Ivandick. 2,417,417; Mar. 18.
- Drive for wheel chairs, One-arm. H. A. Everest and H. C. Jennings. 2,431,112; Nov. 18.
- Drive gear mechanism. R. A. Beckwith. 2,420,294; May 13.
- Drive, Lathe spindle. D. G. Anderson. 2,419,622; Apr. 29.
- Drive mechanism. W. H. Bradley. 2,414,188; Jan. 14.
- Drive mechanism for concrete mixers. C. I. Bohmer. 2,415,989; Feb. 18.
- Drive mechanism for ganged condensers and the like. R. R. Stoddart. 2,424,291; July 22.
- Drive mechanism for planters. H. P. Smith. 2,430,741; Nov. 11.
- Drive mechanism, Reversing. J. L. Waters. 2,430,625; Nov. 11.
- Drive mechanism, Stop and synchronized. C. J. Stuart. 2,430,964; Nov. 18.
- Drive mechanism, Two-speed. J. E. Lovely. 2,423,243; July 1.
- Drive motor support. W. Noble. 2,414,975; Jan. 28.
- Drive or transmission, Fluid. P. M. Diaz. 2,425,089; Aug. 5.
- Drive, Power. T. Hindmarch. 2,417,198; Mar. 11.
- Drive protective system, Alternating current. E. H. Hornbarger. 2,431,252; Nov. 18.
- Drive rod. L. F. Smith. 2,419,738; Apr. 29.
- Drive, Self-locking equalizing. J. W. Mynssen. 2,424,942; July 29.
- Drive shaft brake. F. T. Dixon. 2,420,526; May 13.
- Drive sweep, Easy. J. M. Bobeldyk. 2,424,014; July 15.
- Drive system. W. R. Harris and R. B. Baker. 2,428,567; Oct. 7.
- Drive unit. M. Doniak. 2,419,392; Apr. 22.
- Drive unit. W. Guier. 2,427,135; Sept. 9.
- Driven-shaft combined boring and reciprocable-saw machine, Single. O. Langfelder. 2,417,170; Mar. 11.
- Driver for clinch nuts and the like. L. A. Amtsberg. 2,423,957; July 15.
- Driver for sonic depth finder, Balanced. H. C. Hayes. 2,424,030; July 15.
- Driving and control mechanism. A. F. Bennett. 2,432,716; Dec. 16.
- Driving and counting system. W. L. Sheffield. 2,415,854; Feb. 18.
- Driving apparatus. C. H. Havill. 2,427,783; Sept. 23.
- Driving, braking, and free wheeling mechanism for vehicles, Hydraulic. R. E. Cornwell. 2,421,013; May 27.
- Driving connection, Eccentric. C. L. Beard. 2,424,532; July 22.
- Driving gear unit. R. E. Thompson and J. K. Morris. 2,427,168; Sept. 9.
- Driving machine, Entry. C. E. Tibbals. 2,422,053; June 10.
- Driving mechanism. W. J. Morrill. 2,420,552; May 13.
- Driving mechanism. R. M. Nardone. 2,429,425; Oct. 21.
- Driving mechanism for looms, Picker-stick. J. E. Roig. 2,420,841; May 20.
- Driving mechanism, Torque limiting. W. J. Morrill. 2,420,553; May 13.
- Drop-leaf table. F. Giberson. 2,425,370; Aug. 12.
- Dross for the recovery of zinc, Treatment of. G. T. Mahler. 2,433,615; Dec. 30.
- Drum adjustment, Snare. C. H. Peacock. 2,430,184; Nov. 4.
- Drum-cable attaching means. A. R. Henry. 2,421,788; June 10.
- Drum concentrator, Reciprocating and rotating. J. M. Nicol. 2,424,367; July 22.
- Drum, Drier. L. Hornbostel. 2,433,121; Dec. 23.
- Drum drive, Barking. N. A. Gray. 2,428,967; Oct. 14.
- Drum, Expandable band-building. U. C. Haren and V. H. Hasselquist. 2,416,523; Feb. 25.
- Drum for can sealing machines, Rotary and vertically movable. R. G. Bach and J. R. Paton. 2,418,328; Apr. 1.
- Drum for forming cotton and the like, Compression. J. R. McLaughlin. 2,416,706; Mar. 4.
- Drum for peeling fruit and vegetables, Horizontal rotary abrading. W. de Back. 2,424,803; July 29.
- Drum handling device. W. R. Fox. 2,418,503; Apr. 8.
- Drum, Hoist. J. H. Maude. 2,420,050; May 6.
- Drum, Percussion. C. P. Cordes. 2,425,996; Aug. 19.
- Drum, Percussion. C. P. Cordes. 2,433,200; Dec. 23.
- Drum, Sanding. T. L. Bonkowski. 2,418,966; Apr. 15.
- Drum, Sanding. G. V. Taber. 2,419,858; Apr. 29.
- Drum screen. F. Dustan. 2,423,442; July 8.
- Drum stand. C. Calo. 2,433,594; Dec. 30.
- Drum stop means for printing machines. W. R. Allen and C. H. Sand. 2,421,823; June 10.
- Drum stratifier for minerals, Rotary. E. Kreher. 2,428,974; Oct. 14.
- Dry air cooler. J. J. Booth. 2,425,417; Aug. 12.
- Dry cell. E. D. Chaplin. 2,424,149; July 15.
- Dry cell, Alkaline. S. Ruben. 2,422,045; June 10.
- Dry cell, Deferred action primary. J. B. Perkins. 2,423,901; July 15.
- Dry cell, Leakproof. W. L. Paul. 2,419,589; Apr. 29.



- Dry cells, Manufacturing. H. R. C. Anthony. 2,419,244; Apr. 22.
- Drydock, Floating. F. R. Harris. 2,428,076; Sept. 30.
- Dryer: *See*—
- Adjustable hair dryer. Hair drier.
- Bottle dryer. Portable hair dryer.
- Drier. Rotary clothes dryer.
- Electric hair dryer. Sock dryer.
- Dryer arrangement, Web. B. Offen. 2,421,283; May 27.
- Dryer having opposed throwing members, Gravity flow cotton. W. J. Roeder. 2,430,686; Nov. 11.
- Drying and scalp treating article, Hair. A. Morten. 2,431,882; Dec. 2.
- Drying apparatus. F. J. Broglio. 2,424,737; July 29.
- Drying apparatus for photographic film. F. P. Willcox. 2,414,502; Jan. 21.
- Drying construction, Radiant heat. W. Wilson. 2,418,283; Apr. 1.
- Drying, heating, and/or cooling flowable solids. J. L. Erisman. 2,424,229; July 22.
- Drying means for garment pressing machines. N. Monsarrat. 2,424,623; July 29.
- Drying of resin-impregnated fabric to obtain differential dyeing effects, Differential. C. M. Whittaker, H. A. Thomas, C. C. Wilcock, and C. P. Tattersfield. 2,415,320; Feb. 4.
- Drying rack. L. T. Sanders. 2,424,711; July 29.
- Drying unit using steam jets. W. C. Dorsch. 2,420,739; May 20.
- Drying wheat gluten. C. V. Hagedorn. 2,427,276; Sept. 9.
- Dual-purpose light. R. Roby. 2,421,288; May 27.
- Dual-remote-control apparatus. M. N. Yardeny. 2,420,026; May 6.
- Dual wheel brake. C. S. Ash. 2,422,462; June 17.
- Duck, Decoy. J. H. Mills and R. L. Tanner. 2,430,645; Nov. 11.
- Duct for air conditioning systems, Air mixing and distributing. C. R. Keep. 2,424,828; July 29.
- Duct for directing cooling air to a motor vehicle engine. H. A. Flogaus and L. E. Vogt. 2,418,294; Apr. 1.
- Duct means having a fan for removing air from an enclosure, Sectional. R. E. Blake, P. Grange, and W. L. Thomas. 2,433,544; Dec. 30.
- Duct system, Bus bar. E. T. Carlson. 2,430,557; Nov. 11.
- Dump can. V. Schwarzkopf. 2,414,212; Jan. 14.
- Dump receptacle. S. W. Johnson. 2,421,701; June 3.
- Dumper and table, Portable adjustable. R. Hastings, Jr. 2,432,472; Dec. 9.
- Dumper, Graining machine. C. Zarkin. 2,413,899; Jan. 7.
- Dumping carrier. J. C. Thomas, Jr. 2,431,090; Nov. 18.
- Dung remover, Reciprocating conveyer. N. Cordis. 2,416,469; Feb. 25.
- Duplex control circuit. M. G. Nicholson, Jr. 2,428,126; Sept. 30.
- Duplex welding tube. C. J. Bell. 2,420,221; May 6.
- Duplicating machine. F. R. Ford. 2,418,341; Apr. 1.
- Duplicator, Pocket. W. F. O'Gorman. 2,415,704; Feb. 11.
- Dust collector. R. Breckheimer. 2,430,448; Nov. 11.
- Dust collector. R. L. Lincoln. 2,424,572; July 29.
- Dust collector. R. L. Lincoln. 2,431,336; Nov. 25.
- Dust-precipitator, Electrical. E. H. R. Pegg. 2,422,564; June 17.
- Dust precipitator, Protected electrical. E. H. R. Pegg. 2,427,740; Sept. 23.
- Dust preventing device for packaging subdivided materials. J. M. Allerdice. 2,422,330; June 17.
- Dust receiver for mops. J. O. Barkl. 2,431,452; Nov. 25.
- Dust removing attachment for grain elevators. T. C. Lorenzen. 2,415,503; Feb. 11.
- Dust removing system, Automatic. F. B. Allen. 2,420,217; May 6.
- Duster, Blast. A. R. Carnes. 2,425,419; Aug. 12.
- Duster, Powder. C. W. Hawthorne. 2,416,920; Mar. 4.
- Dusting apparatus. R. R. Root. 2,429,773; Oct. 28.
- Dye, Chromable monoazo pyrazolone. W. F. Beech and M. Mendoza. 2,429,600; Oct. 28.
- Dye coating composition for color photography. R. M. Haff. 2,433,811; Dec. 30.
- Dye intermediates, dyes, and their preparation, Cyanine. E. B. Middleton and G. A. Dawson. 2,424,483; July 22.
- Dyeing articles composed of acrylonitrile polymers. F. B. Moody. 2,431,956; Dec. 2.
- Dyeing strands of textile fibers or filaments. L. C. Galatioto. 2,432,404; Dec. 9.
- Dyeing with indigoid vat dyestuffs. E. Weber. 2,420,729; May 20.
- Dyes and manufacturing the same, Black sulfur. N. M. Bigelow. 2,418,816; Apr. 15.
- Dyes containing polybasic acid esters of alkylene sulfones, Pyrazolone monoazo. W. Müller and J. Scheidegger. 2,424,493; July 22.
- Dyes from tetrazotized dihydroxy benzenes, Disazo. F. Straub, J. Brassel and P. Pieth. 2,427,537; Sept. 16.
- Dyes from 3-carbalkoxy-pyrazolones, Azo. W. H. Strain and J. B. Dickey. 2,430,484; Nov. 11.
- Dyes, Monoazo. J. Wright. 2,423,542; July 8.
- Dyes, Trinuclear cyanine. A. W. Anish. 2,432,060; Dec. 2.
- Dyes with recurring cyanine nuclei, Cyanine. C. D. Wilson. 2,425,773; Aug. 19.
- Dyestuff intermediates. G. W. Seymour, V. S. Salvin, and M. E. Miville. 2,413,790; Jan. 7.
- Dyestuff intermediates and obtaining same, Polymeric. C. D. Wilson. 2,425,774; Aug. 19.
- Dyestuff preparations containing an ester salt of a leuco vat dyestuff, a salt of a quaternary ammonium compound, and an acid amide. K. Ratti and P. Brandt. 2,432,041; Dec. 2.
- Dyestuff, Preparing an anthrimide carbazole vat. M. Scalera. 2,432,972; Dec. 16.
- Dyestuffs, Acrylamino-anthraquinone vat. P. Sutter and W. Kern. 2,420,453; May 13.
- Dyestuffs and making same, Chromable. A. Conzetti, G. Schetty, and O. Schmid. 2,428,866; Oct. 14.
- Dyestuffs, Anthraquinone. G. D. Buckley and H. A. Piggott. 2,426,547; Aug. 26.
- Dyestuffs, Methine. J. D. Kendall. 2,430,295; Nov. 4.
- Dyestuffs of the anthraquinone series. J. Delnet. 2,415,938; Feb. 18.
- Dyestuffs of the anthraquinone series and their manufacture. E. Gutzwiller. 2,427,527; Sept. 16.
- Dyestuffs, Polymeric cyanine. C. D. Wilson. 2,425,772; Aug. 19.
- Dyestuffs, Printing fixation of chrome mordant. G. de Niederhäusern and E. Tschan. 2,416,382; Feb. 25.
- Dyestuffs, Pyrazolone disazo. P. Pieth. 2,427,534; Sept. 16.
- Dyestuffs with ortho hydroxy carboxylic acid chromium complexes, Chroming. A. Conzetti and O. Schmid. 2,417,735; Mar. 18.
- Dynamic tolerance method of testing bearings with means for carrying same into effect. R. C. McKendry. 2,427,364; Sept. 16.
- Dynamolectric apparatus. L. E. Moberly. 2,414,543; Jan. 21.
- Dynamolectric machine. S. R. Bergman. 2,421,592; June 3.
- Dynamolectric machine. G. A. Clauson and R. N. Early. 2,422,824; June 24.
- Dynamolectric machine. B. C. Evans. 2,424,443; July 22.
- Dynamolectric machine. A. Fisher. 2,428,621; Oct. 7.
- Dynamolectric machine. A. C. Hugin. 2,417,686; Mar. 18.
- Dynamolectric machine. A. C. Hugin. 2,419,837; Apr. 29.
- Dynamolectric machine. R. L. Jones. 2,424,317; July 22.
- Dynamolectric machine. H. Maxwell. 2,428,236; Sept. 30.
- Dynamolectric machine. C. W. H. Minchin. 2,431,067; Nov. 18.
- Dynamolectric machine. C. W. H. Minchin and A. J. Parsons. 2,423,040; June 24.
- Dynamolectric machine, Alternating-current. H. C. Roters. 2,423,345; July 1.
- Dynamolectric machine and driving connection. J. D. McDonald. 2,429,067; Oct. 14.
- Dynamolectric machine for absorbing energy, Liquid cooled. L. D. Nordstrum. 2,428,634; Oct. 7.
- Dynamolectric machine ventilation. C. Lynn and D. B. Hoover. 2,427,731; Sept. 23.
- Dynamolectric machine winding, High-voltage. E. L. Schulman. 2,427,749; Sept. 23.
- Dynamometer. C. C. and H. L. Bennett. 2,425,171; Aug. 5.
- Dynamometer. H. L. Bennett. 2,428,005; Sept. 30.
- Dynamometer. J. H. Moore. 2,414,161; Jan. 14.
- Dynamometer, Electrical. A. M. Jacobsen. 2,432,900; Dec. 16.
- Dynamotor. V. C. Mironowicz. 2,427,919; Sept. 23.
- Ear muff, Plastic. S. Hurst. 2,420,245; May 6.
- Ear protector. A. H. Ungemah. 2,428,897; Oct. 14.
- Ear wire for earrings. A. Francis. 2,420,531; May 13.
- Earphone socket structure. P. S. Veneklasen. 2,423,355; July 1.
- Earpiece, Hearing aid. E. L. Kelsey. 2,430,229; Nov. 4.
- Earring. M. L. Marcus. 2,417,117; Mar. 11.
- Earring. J. McCann. 2,414,382; Jan. 14.
- Earring. M. C. and P. E. Schober. 2,433,711; Dec. 30.
- Earring. G. Schuler, Jr. 2,423,905; July 15.
- Earring. A. Shatkin. 2,427,478; Sept. 16.
- Earring and the like. A. Shatkin. 2,427,479; Sept. 16.
- Earring mounting. L. Hsen. 2,432,763; Dec. 16.
- Earth bores, Acidizing. D. C. Bond and G. W. Ayers. 2,425,415; Aug. 12.
- Earth boring machine. T. C. Smith. 2,421,970; June 10.
- Earth drill. D. Richards. 2,418,601; Apr. 8.
- Earth formations traversed by boreholes, Method and apparatus for investigating. H.-G. Doll. 2,433,746; Dec. 30.
- Earth inductor generator. H. V. Alexandersson and A. S. Dahlstedt. 2,432,500; Dec. 16.
- Earth reflections in directional antenna systems, Overcoming the effects of. E. H. Ullrich. 2,419,609; Apr. 29.
- Easel. L. Solem. 2,418,433; Apr. 1.
- Easel, Enlarging. F. B. Jensen. 2,427,860; Sept. 23.
- Easel for flexible posters. J. Watson. 2,419,181; Apr. 15.
- Ebullition in liquefied gases, Producing. N. M. Jones. 2,416,924; Mar. 4.
- Echo ranging, Method and apparatus for. B. M. Harrison. 2,433,361; Dec. 30.
- Eddy-current apparatus. A. Winther. 2,428,104; Sept. 30.
- Edge welding. Skelp. H. T. Herbst. 2,423,188; July 1.
- Edger and trimmer. G. R. Gibson. 2,433,659; Dec. 30.



- Edging machine. D. B. Sevin. 2,414,126; Jan. 14.  
 Educational device. W. C. Christy. 2,418,756; Apr. 8.  
 Educational device for aerial gunners. F. J. Furman and E. J. Lamb. 2,424,088; July 15.  
 Educational entertainment device. L. Burnett. 2,432,655; Dec. 16.  
 Efficiency indicating instrument, Automotive. O. F. Schulz. 2,430,413; Nov. 4.  
 Egg cleaning machine. R. E. Hutchins, Jr. 2,419,933; May 6.  
 Egg products, Preparing dried. E. W. Hopkins, G. Josh and L. A. Harriman. 2,427,726; Sept. 23.  
 Egg separator. H. H. Allen and A. Taylor. 2,424,134; July 15.  
 Egg separator. T. A. Byers. 2,430,156; Nov. 4.  
 Eggshells to produce a purified calcium carbonate, Treating. M. Contesso. 2,419,822; Apr. 29.  
 Egg treating machine. W. G. Howard. 2,418,409; Apr. 1.  
 Eggs for edible consumption, Preserving. E. M. Funk. 2,423,233; July 1.  
 Eggs, Preserving. H. A. Gutmann. 2,421,199; May 27.  
 Ejection of masses, Improving the. G. Monnet. 2,423,109; July 1.  
 Ejector. H. S. Bimpson. 2,432,651; Dec. 16.  
 Ejector and gun, Rivet. L. Frank. 2,416,474; Feb. 25.  
 Ejector and cocking mechanism for firearms. C. A. Young. 2,418,611; Apr. 8.  
 Ejector for core drills. W. B. Barr. 2,414,133; Jan. 14.  
 Ejector for field hay choppers. Stone. E. F. Huddle. 2,424,171; July 15.  
 Ejector, Plug. L. P. Gillentine. 2,430,011; Nov. 4.  
 Elbow pipe coupling. W. Maky. 2,413,878; Jan. 7.  
 Electric air circuit breaker. W. G. Harlow. 2,417,683; Mar. 18.  
 Electric altimeter. I. Wolff and J. L. Hathaway. 2,417,032; Mar. 4.  
 Electric arc furnace. S. Winters. 2,427,037; Sept. 9.  
 Electric arc welding apparatus. H. S. Bowen, Sr., and J. A. Smith, Jr. 2,417,907; Mar. 25.  
 Electric blasting cap. E. K. Lefren. 2,428,884; Oct. 14.  
 Electric cable. C. E. Bennett. 2,419,054; Apr. 15.  
 Electric cable. C. E. Bennett. 2,433,729; Dec. 30.  
 Electric cable. J. C. Burley. 2,416,979; Mar. 4.  
 Electric cable. G. M. Hamilton. 2,415,486; Feb. 11.  
 Electric cable. D. R. Stevens. 2,419,095; Apr. 15.  
 Electric chime signal. J. S. Zuckerman. 2,517,037; Mar. 4.  
 Electric circuit breaker. C. Bresson. 2,414,796; Jan. 28.  
 Electric circuit breaker. W. E. Stilwell, Jr. 2,416,358; Feb. 25.  
 Electric circuit control. P. J. McCullough. 2,414,315; Jan. 14.  
 Electric circuit controller. H. R. Johnson. 2,414,307; Jan. 14.  
 Electric circuit interrupter of the plug-in type. A. Cianchi. 2,416,569; Feb. 25.  
 Electric clutch motor. C. H. Glanz, Jr. 2,430,634; Nov. 11.  
 Electric contact device. A. Wassmer. 2,416,970; Mar. 4.  
 Electric contactor. L. Pierce. 2,414,554; Jan. 21.  
 Electric control circuit. J. A. Augier. 2,427,542; Sept. 16.  
 Electric control circuit. B. Cooper. 2,421,995-6; June 10.  
 Electric control circuit. R. E. Kingsmill. 2,422,020; June 10.  
 Electric control means, Clock-actuated. H. J. Fowler. 2,420,874; May 20.  
 Electric cooker, Combined deep well and surface burner. E. A. Rutenber. 2,416,645; Feb. 25.  
 Electric coupling. D. Jackson. 2,425,679; Aug. 12.  
 Electric device and heating materials. F. M. Penning. 2,431,887; Dec. 2.  
 Electric device with electron barrier. E. J. Merrell. 2,415,184; Feb. 4.  
 Electric discharge device and electrode assembly therefor. W. S. Brian. 2,425,593; Aug. 12.  
 Electric discharge device, High-frequency. J. E. Beggs. 2,428,609; Oct. 7.  
 Electric discharge device, High-frequency. R. B. Nelson. 2,428,888; Oct. 14.  
 Electric discharge devices, Method and apparatus for manufacturing. J. E. Beggs. 2,428,610; Oct. 7.  
 Electric discharge tube. R. C. Hilliard. 2,433,813; Dec. 30.  
 Electric fence bracket. P. A. Newbern. 2,429,029; Oct. 14.  
 Electric fence charging apparatus. W. F. Fagen. 2,415,943-4; Feb. 18.  
 Electric fence charging apparatus. W. H. Farr and W. F. Fagen. 2,415,942; Feb. 18.  
 Electric fence indicator. S. A. Moore. 2,429,764; Oct. 28.  
 Electric furnace for melting magnesium and its alloys. J. S. Peake and G. T. Sermon. 2,429,959; Oct. 28.  
 Electric fuse box. W. E. Hill and T. D. G. Wintle. 2,427,908; Sept. 23.  
 Electric fuse clamp. G. F. Lincks. 2,427,916; Sept. 23.  
 Electric generator. C. A. Bowlus. 2,428,781; Oct. 14.  
 Electric glass furnace. A. E. A. S. Cornelius. 2,417,913; Mar. 25.  
 Electric hair dryer. A. R. Younger. 2,425,056; Aug. 5.  
 Electric heater. J. R. Campbell. 2,414,799; Jan. 28.  
 Electric heater. G. M. Marr. 2,425,702; Aug. 12.  
 Electric heater. A. A. Reiser. 2,419,655; Apr. 29.  
 Electric immersion heater. S. L. Apatow. 2,429,303; Oct. 21.  
 Electric immersion heater. J. D. Morgan and P. B. Levitt. 2,432,169; Dec. 9.  
 Electric impulse generator. E. S. Pridham. 2,426,322; Aug. 26.  
 Electric induction apparatus. K. K. Paluev. 2,422,037; June 10.  
 Electric iron. J. H. Ashbaugh. 2,427,379; Sept. 16.  
 Electric iron. E. A. Farr. 2,416,984; Mar. 4.  
 Electric iron. P. J. McCullough. 2,431,186; Nov. 18.  
 Electric laboratory heater. J. A. Schuldiner. 2,429,241; Oct. 21.  
 Electric lamp. A. G. Foote. 2,419,395; Apr. 22.  
 Electric lamp. G. C. Singer. 2,423,525; July 8.  
 Electric machinery and prime mover therefor, Dynamo. G. Hallowell. 2,416,005; Feb. 18.  
 Electric machines, Winding of. A. P. Adamson. 2,432,267; Dec. 9.  
 Electric motor. H. L. Hill. 2,415,634; Feb. 11.  
 Electric motor. J. W. Suydam. 2,418,607; Apr. 8.  
 Electric motor control. W. E. Menzies. 2,418,235; Apr. 1.  
 Electric motor control circuit. R. E. Peterson. 2,426,640; Sept. 2.  
 Electric motor-driven tool. C. Jackson. 2,430,817; Nov. 11.  
 Electric motor follow-up system. T. Obszarny. 2,416,018; Feb. 18.  
 Electric outboard motor. G. E. Schultz and E. A. Morrissey. 2,429,774; Oct. 28.  
 Electric outlet box. E. E. Granger. 2,423,016; June 24.  
 Electric pickup. H. T. Fans. 2,415,681; Feb. 11.  
 Electric plug. F. D. Bryant. 2,422,393; June 17.  
 Electric plug. M. M. Guernsey. 2,417,928; Mar. 25.  
 Electric power apparatus for tractors, Auxiliary. C. W. Mott. 2,414,602; Jan. 21.  
 Electric power system. J. R. Williams. 2,416,601; Feb. 25.  
 Electric power, System for transforming and converting. J. W. Dibrell and F. Dibrell, Jr. 2,431,994; Dec. 2.  
 Electric projection lamp. D. K. Wright. 2,419,432; Apr. 22.  
 Electric range. E. O. Morton. 2,414,162; Jan. 14.  
 Electric resistance butt welding longitudinal seam edges of a tubular blank and apparatus therefor, Method of progressively. J. R. Fleche. 2,417,594; Mar. 18.  
 Electric resistance heating continuously moving metal strip, Uniformly. G. H. Rendel. 2,432,801; Dec. 14.  
 Electric room heater. P. W. Browne. 2,433,196; Dec. 23.  
 Electric rotary furnace. F. E. Hatch. 2,430,171; Nov. 4.  
 Electric selection controlling circuit. G. Deakin and H. F. Herbig. Re. 22,861; Apr. 8.  
 Electric shaver shear plate and manufacture. N. A. Gray. 2,416,094; Feb. 18.  
 Electric snap-action switch. R. Popp. 2,429,770; Oct. 28.  
 Electric snap switch. H. W. Batcheller. 2,432,647; Dec. 16.  
 Electric snap switch. E. P. Meyer. 2,425,159; Aug. 5.  
 Electric soldering iron. W. R. Burger. 2,430,666; Nov. 11.  
 Electric soldering iron. R. Haino. 2,432,009; Dec. 2.  
 Electric soldering iron. K. Norman. 2,414,482; Jan. 21.  
 Electric steam generator. S. Livingstone. 2,428,714; Oct. 7.  
 Electric switch. J. H. Baker and P. J. Schwarzhaupt. 2,418,005; Mar. 25.  
 Electric switch. D. D. Beveridge, Jr. 2,420,768; May 20.  
 Electric switch. H. C. Bolley. 2,414,713; Jan. 21.  
 Electric switch. R. L. Brady and A. C. Wall. 2,416,897; Mar. 4.  
 Electric switch. H. Carling. 2,419,627; Apr. 29.  
 Electric switch. W. B. Coon. 2,414,191; Jan. 14.  
 Electric switch. R. P. Dimmer. 2,432,294; Dec. 9.  
 Electric switch. E. J. Frank and H. P. Fitzpatrick. 2,426,009; Aug. 19.  
 Electric switch. F. P. Gasser. 2,433,753; Dec. 30.  
 Electric switch. S. S. Grady. 2,423,099; July 1.  
 Electric switch. C. I. Hall. 2,419,072; Apr. 15.  
 Electric switch. J. C. Hamilton. 2,418,831; Apr. 15.  
 Electric switch. K. H. Hansen. 2,422,097; June 10.  
 Electric switch. D. W. Johnson. Re. 22,856; Mar. 25.  
 Electric switch. M. F. Koenig and A. W. Krieger. 2,428,848; Oct. 14.  
 Electric switch. M. G. Leonard. 2,417,767; Mar. 18.  
 Electric switch. J. H. Leslie, II. 2,419,685; Apr. 29.  
 Electric switch. J. W. McClain. 2,432,782; Dec. 16.  
 Electric switch. S. Minnet. 2,418,363; Apr. 1.  
 Electric switch. A. G. Seifried. 2,433,163; Dec. 23.  
 Electric switch. S. Unger. 2,419,180; Apr. 15.  
 Electric switch. M. Van Valkenburgh. 2,431,849; Dec. 2.  
 Electric switch. H. L. Van Valkenburgh and C. A. Schaefer. 2,426,129; Aug. 19.  
 Electric switch. A. K. Whyte and W. J. Aldis. 2,424,527; July 22.  
 Electric system for producing intermittent or flashing light. H. E. Edgerton. 2,426,602; Sept. 2.  
 Electric tank water heater. G. P. Dowe. 2,423,488; July 8.  
 Electric toaster. P. J. McCullough. 2,416,014; Feb. 18.  
 Electric trap. H. L. Ratchford. 2,420,723; May 20.



- Electric valve control circuit. M. A. Edwards. 2,425,606; Aug. 12.
- Electric water heater. J. Gabler. 2,426,302; Aug. 26.
- Electric water heater. L. P. Hynes. 2,423,598; July 8.
- Electric water heater. R. A. Johnstone. 2,420,175; May 6.
- Electric water heater. O. M. Volles. 2,419,429; Apr. 22.
- Electric welding head. E. S. Waddington. 2,415,052; Jan. 28.
- Electric wires and the like, Covering of. E. Tunnelcliff, J. Taylor, and H. D. James. 2,426,904; Sept. 2.
- Electrical apparatus. A. Dorne. 2,432,230; Dec. 9.
- Electrical apparatus. K. W. Pfeiffer. 2,425,002; Aug. 5.
- Electrical apparatus for indicating liquid levels. W. T. Marchmont. 2,416,059; Feb. 18.
- Electrical apparatus for separating the constituents of an oil-water system. C. H. M. Roberts. 2,425,355; Aug. 12.
- Electrical bushing type connector. M. R. Weissman. 2,423,277; July 1.
- Electrical capacitors, Winding. E. A. Nordberg. 2,416,540; Feb. 25.
- Electrical circuit. J. R. Lindsay. 2,419,686; Apr. 29.
- Electrical circuit making and breaking devices. E. S. Buckley. 2,416,736; Mar. 4.
- Electrical coil and making the same. E. C. Earhart. 2,415,582; Feb. 11.
- Electrical conductivity cell. W. F. Wolfner, II. 2,422,873; June 24.
- Electrical conductor. D. T. Mowry. 2,417,608; Mar. 18.
- Electrical conductors, Locating faults in. D. H. Nelson and J. R. Cosby. 2,425,554; Aug. 12.
- Electrical conduit clamp. G. A. Tinnerman. 2,423,627; July 8.
- Electrical connection means. C. S. Penfold. 2,431,583; Nov. 25.
- Electrical connection plug. R. Bauer. 2,415,722; Feb. 11.
- Electrical connector. M. D. Baller. 2,415,404; Feb. 11.
- Electrical connector. B. A. Bels. 2,423,548; July 8.
- Electrical connector. B. A. Bels. 2,426,429; Aug. 26.
- Electrical connector. T. Birkenmaier. 2,426,857; Sept. 2.
- Electrical connector. S. N. Buchanan and J. O. Johnson. 2,424,966; Aug. 5.
- Electrical connector. S. M. Del Camp. 2,432,966; Dec. 16.
- Electrical connector. A. M. Gurewitsch. 2,432,989; Dec. 23.
- Electrical connector. E. Harrison and A. P. McCabe. 2,428,022; Sept. 30.
- Electrical connector. B. A. Lundy. 2,424,938; July 29.
- Electrical connector. K. J. Mosebach. 2,419,152; Apr. 15.
- Electrical connector. P. Neill. 2,432,120; Dec. 9.
- Electrical connector. J. M. Van Vleet. 2,416,423; Feb. 25.
- Electrical connector. J. M. Van Vleet. 2,432,636; Dec. 16.
- Electrical connector block. R. A. Engelhardt. 2,431,999; Dec. 2.
- Electrical connector plug. J. A. F. Roché. 2,429,278; Oct. 21.
- Electrical contact. G. Durst. 2,433,687; Dec. 30.
- Electrical contact. T. M. Gunn and W. J. Wilhelm. 2,414,463; Jan. 21.
- Electrical contact heater. A. A. Reiser. 2,418,557; Apr. 8.
- Electrical contact material, Producing. J. Wulff. 2,426,659; Sept. 2.
- Electrical contact materials and contacts and making the same. M. R. Swinehart. 2,425,052; Aug. 5.
- Electrical contact member containing commingled copper and steel, Making an. R. A. Wilson and B. H. Matthews. 2,427,517; Sept. 16.
- Electrical contractor. R. Borza. 2,414,630; Jan. 21.
- Electrical control apparatus. R. C. Webb. 2,415,469; Feb. 11.
- Electrical control circuit. G. H. Rockwood. 2,421,760; June 10.
- Electrical control device. M. A. Edwards. 2,432,399; Dec. 9.
- Electrical control, Pressure regulated. E. J. Dillman. 2,422,342; June 17.
- Electrical control system. C. F. Kettering. 2,417,112; Mar. 11.
- Electrical control system, Antihunt. R. K. Bonell. 2,415,080; Feb. 4.
- Electrical coupling plug. F. G. Born. 2,418,457; Apr. 8.
- Electrical device and molded stem therefor. D. S. Gustin. 2,427,096; Sept. 9.
- Electrical device, Encased. A. H. Lamb. 2,425,250; Aug. 5.
- Electrical equipment. E. W. Houghton. 2,415,823; Feb. 18.
- Electrical faults in electric cable systems, Locating. C. E. Bennett and G. N. Everest. 2,433,505; Dec. 30.
- Electrical follow-up system. J. C. Needham. 2,425,160; Aug. 5.
- Electrical-frequency responsive relay circuit. G. Ogurkowski. 2,415,653; Feb. 11.
- Electrical generating and control system, Auxiliary. W. E. F. Laging. 2,427,678; Sept. 23.
- Electrical hair removing instrument. T. Weiser. 2,417,530; Mar. 18.
- Electrical heating device. R. R. Fisher. 2,433,750; Dec. 30.
- Electrical impulses, Generation of. M. M. Lévy and L. E. Weaver. 2,433,379; Dec. 30.
- Electrical impulses into mechanical force, Translating. W. M. Winslow. 2,417,850; Mar. 25.
- Electrical induction apparatus. J. M. Weed. 2,414,990; Jan. 28.
- Electrical induction apparatus and protective means therefor. E. D. Treanor. 2,416,130; Feb. 18.
- Electrical induction boiler. E. G. Lofgren. 2,427,361; Sept. 16.
- Electrical insulating body. W. Rath. 2,432,250; Dec. 9.
- Electrical insulation. K. L. Berry. 2,427,183; Sept. 9.
- Electrical machine. F. J. Johns and T. C. Fockler. 2,414,532; Jan. 21.
- Electrical machine. T. W. Vickers. 2,413,805; Jan. 7.
- Electrical measurement of changes of impedance. R. C. Lawlor. 2,419,573; Apr. 29.
- Electrical measurement of displacement. A. Douglas. 2,414,224; Jan. 14.
- Electrical measuring instruments, Manufacturing and assembling. B. B. Grace, J. Handley, and G. Gilliver. 2,414,462; Jan. 21.
- Electrical measuring system. A. J. Hornfeck. 2,432,422; Dec. 9.
- Electrical musical instrument. J. M. Hanert. 2,429,226; Oct. 21.
- Electrical oscillation generator. M. M. Lévy. 2,433,378; Dec. 30.
- Electrical phase indicating apparatus. J. H. Bollman and J. G. Kreer, Jr. 2,429,216; Oct. 21.
- Electrical plug. R. Velez. 2,431,213; Nov. 18.
- Electrical plug and socket, Self-locking. H. J. Modrey. 2,427,297; Sept. 9.
- Electrical protective device. A. B. Ellicock. 2,418,017; Mar. 25.
- Electrical receptacle. G. B. Benander. 2,429,793; Oct. 28.
- Electrical receptacle. E. S. Boynton. 2,427,349; Sept. 16.
- Electrical receptacle. D. N. Ingwersen. 2,415,496; Feb. 11.
- Electrical regulator. H. G. Haas. 2,432,883; Dec. 16.
- Electrical regulator. H. G. Haas and J. P. Russo. 2,432,884; Dec. 16.
- Electrical regulator. C. C. Honeywell. 2,424,464; July 22.
- Electrical resistance strain gauge. F. Aughtie, F. R. Thurston, and E. P. Coleman. 2,429,087; Oct. 14.
- Electrical resistances, Manufacture of. N. F. Robbie and E. H. Whitfield. 2,431,965; Dec. 2.
- Electrical resistors, Manufacturing. A. J. Prickett. 2,427,417; Sept. 16.
- Electrical signal amplitude changes, Measuring. V. J. Terry and T. F. S. Hargreaves. 2,419,607; Apr. 29.
- Electrical signaling system. P. L. C. Cornu. 2,424,554; July 29.
- Electrical signaling system. A. A. C. Heron. 2,424,566; July 29.
- Electrical signaling system. C. M. Theillaumas. 2,424,594; July 29.
- Electrical signalling system with remote control. W. Pouliart. 2,424,582; July 29.
- Electrical soldering iron. C. O. Barstad. 2,416,370; Feb. 25.
- Electrical speed-responsive system with variable-ratio drive. D. W. Moore, Jr. 2,432,327; Dec. 9.
- Electrical switch. R. M. Bleakney and E. J. Workman. 2,420,028; May 6.
- Electrical switch. E. Doucette. 2,424,745; July 29.
- Electrical switch. O. Froland. 2,420,074; May 6.
- Electrical switch. O. H. Hasselbaum. 2,427,277; Sept. 9.
- Electrical switch device. H. R. Hesse. 2,432,476; Dec. 9.
- Electrical system. C. T. McCoy. 2,424,481; July 22.
- Electrical system. K. J. Stiefel. 2,415,111; Feb. 4.
- Electrical system. K. J. Stiefel. 2,417,452; Mar. 18.
- Electrical system and apparatus for positioning guns and other movable objects. J. H. Borden. 2,414,924; Jan. 28.
- Electrical system for use in photorecording. N. A. Hassler. 2,415,879; Feb. 18.
- Electrical telemetering system. J. Razek. 2,417,015; Mar. 4.
- Electrical terminal block. E. S. Wilburn. 2,428,057; Sept. 30.
- Electrical terminal clip. L. W. Buell. 2,425,670; Aug. 12.
- Electrical terminal clip. L. W. Buell. 2,431,366; Nov. 25.
- Electrical terminal connection. G. A. Tinnerman. 2,417,718; Mar. 18.
- Electrical testing apparatus. L. D. Hansen, A. S. Hegeman, Jr., and H. N. Snook. 2,424,275; July 22.
- Electrical testing system. W. A. Edson. 2,414,456; Jan. 21.
- Electrical testing system. W. C. Rheubottom. 2,414,609; Jan. 21.
- Electrical timing system. W. R. Alken. 2,433,254; Dec. 23.
- Electrical translation apparatus. D. E. Norgaard. 2,427,688; Sept. 23.
- Electrical transmission system. H. Nyquist. 2,424,998; Aug. 5.
- Electrical wave analyzer. C. G. Sontheimer. 2,432,214; Dec. 9.
- Electrical wave analyzing circuit. D. D. Grieg. 2,431,324; Nov. 25.
- Electrical welding machine. H. Uren and R. T. A. Dal-lisson. 2,414,780; Jan. 21.



- Electrically controlled servo system. R. H. Nisbet. 2,414,430; Jan. 14.
- Electrically heated bellows motor. J. L. Turner. 2,433,493; Dec. 30.
- Electrically heated hooded device. A. Warring. 2,427,113; Sept. 9.
- Electrically heated multiple-coil water heater. W. O. Schick. 2,427,476; Sept. 16.
- Electrically heated rotatable liquid container. D. F. Ayres. 2,429,662; Oct. 28.
- Electrically heated shoulder pad. E. D. Hyre. 2,432,159; Dec. 9.
- Electrically heated soldering iron. P. L. Esler. 2,415,476; Feb. 11.
- Electrically heated, thermoresponsive switch. G. C. Armstrong. 2,428,538; Oct. 7.
- Electrically heated tool. E. W. Hagadorn. 2,427,209; Sept. 9.
- Electrically responsive gaging mechanism for assorting bearing balls. J. J. Neff. 2,429,891; Oct. 28.
- Electroacoustic transducer. B. M. Harrison. 2,416,314; Feb. 25.
- Electrocardiographic examinations, Method and apparatus for conducting. M. S. White. Re. 22,916; Sept. 16.
- Electrocardiotachometer. V. Guillemin, Jr. 2,419,682; Apr. 29.
- Electroconductive fabric and making the same. L. J. Rasero. 2,433,239; Dec. 23.
- Electrode. W. W. Eitel and J. A. McCullough. 2,417,458; Mar. 18.
- Electrode and cell. C. F. Wallace. 2,415,067; Jan. 28.
- Electrode assembling in television projection tubes. C. C. Larsen. 2,426,697; Sept. 2.
- Electrode attachment. E. W. Rickmeyer. 2,414,897; Jan. 28.
- Electrode, Buoyant. F. H. Gooding. 2,422,727; June 24.
- Electrode clamp. L. E. Leonard. 2,423,714; July 8.
- Electrode, Coated welding. R. K. Lee. 2,432,773; Dec. 16.
- Electrode, Coil. R. H. Stuart. 2,424,518; July 22.
- Electrode, Composite selenium. A. von Hippel and J. H. Schulman. 2,428,055; Sept. 30.
- Electrode construction for high-frequency electronic devices. H. J. McCarthy. 2,419,903; Apr. 29.
- Electrode cooling, Welding. F. R. Hensel and E. I. Larsen. 2,422,962; June 24.
- Electrode feed control system. C. C. Levy. 2,432,909; Dec. 16.
- Electrode, Fluid cooled. J. J. Wisler. 2,416,365; Feb. 25.
- Electrode for electron tube and making same, Non-emissive. W. W. Eitel and J. A. McCullough. 2,417,460; Mar. 18.
- Electrode for fluorescent tubes. O. R. Besser. 2,429,118; Oct. 14.
- Electrode for mercury arc devices, Non-sputtering. L. M. Wittlinger. 2,415,548; Feb. 11.
- Electrode for salt bath furnace, Hollow. A. F. Holden. 2,415,494; Feb. 11.
- Electrode for use in electrolysis cells. W. W. Gleave. 2,433,212; Dec. 23.
- Electrode holder. A. E. Anderson. 2,422,385; June 17.
- Electrode holder. C. E. Benner. 2,427,894; Sept. 23.
- Electrode holder. C. Camilleri. 2,415,671; Feb. 11.
- Electrode holder. W. T. Cockrill and T. J. Duncan. 2,428,065; Sept. 30.
- Electrode holder. T. S. Donnelly. 2,417,547; Mar. 18.
- Electrode holder. T. S. Donnelly. 2,423,758; July 8.
- Electrode holder. D. A. French, Sr. 2,433,355; Dec. 30.
- Electrode holder. P. Jepson. 2,419,560; Apr. 29.
- Electrode holder. P. Jepson. 2,427,002; Sept. 9.
- Electrode holder. W. J. Kolstad. 2,428,083; Sept. 30.
- Electrode holder. F. J. Nowicke. 2,416,841; Mar. 4.
- Electrode holder. J. E. Paulson. 2,419,789; Apr. 29.
- Electrode holder. W. A. Ternes. 2,432,836; Dec. 16.
- Electrode holder. F. G. Van Dyke. 2,423,058; June 24.
- Electrode holder. F. G. Van Dyke. 2,430,376; Nov. 4.
- Electrode holder. R. A. Welch. 2,415,778; Feb. 11.
- Electrode holder. M. Wells. 2,418,681; Apr. 8.
- Electrode holder for use in electroencephalography. G. A. Ulett, Jr., and F. B. Claussen. 2,426,958; Sept. 2.
- Electrode pad. P. Meminger. 2,433,233; Dec. 23.
- Electrode, Platinum base alloy and spark plug. F. R. Hensel. 2,432,888; Dec. 16.
- Electrode retrieving means, Broken. S. W. Kemock. 2,426,105; Aug. 19.
- Electrode, Self-cleaning. N. H. Goldsworthy. 2,432,750; Dec. 16.
- Electrode strands, Making. L. C. Werner. 2,433,497; Dec. 30.
- Electrode structure. F. Landauer. 2,420,669; May 20.
- Electrode structure. S. F. Varian. 2,421,767; June 10.
- Electrode, Welding. A. A. Bernard. 2,430,701; Nov. 11.
- Electrode, Welding. G. E. Lewis. 2,418,781; Apr. 8.
- Electrodes in electric discharge tubes, Mounting of. A. L. Chilcot, S. Jackson, and F. W. Taylor. 2,417,061; Mar. 11.
- Electrodes, Production of electric arc etching. T. Miller. 2,425,113; Aug. 5.
- Electrodes, Welding. T. E. Kihlgren and C. E. Lacy. 2,422,489; June 17.
- Electrodepositing copper upon steel wire. O. E. Adler. 2,420,291; May 13.
- Electrodynamical pickup, Humless. D. F. Balmer. 2,416,082; Feb. 18.
- Electroinertia brake. L. E. Johnson. 2,414,879; Jan. 28.
- Electrolyte for and anodically polishing nickel. C. L. Faust. 2,429,676; Oct. 28.
- Electrolytic bright polishing. H. I. White. 2,424,674; July 29.
- Electrolytic device. J. B. Brennan. 2,429,987; Nov. 4.
- Electrolytic processes. N. M. Winslow and G. W. Heise. 2,427,433; Sept. 16.
- Electrolytic production of thin metal foil. C. Davidoff. 2,433,441; Dec. 30.
- Electrolytic treatment of alkaline process cooking liquors. H. B. Somerset. 2,416,413; Feb. 25.
- Electrolytic treatment of tin plate for preventing sulfur staining. A. E. Stevenson and B. H. Schaub. 2,424,718; July 29.
- Electromagnet. C. I. Hall. 2,419,071; Apr. 15.
- Electromagnet, Plunger. E. F. Mekelburg. 2,433,703; Dec. 30.
- Electromagnet, Plunger-type. A. J. Porskievics. 2,426,745; Sept. 2.
- Electromagnet, Polarized. G. E. Duffy, Sr. 2,414,583; Jan. 21.
- Electromagnet relay construction. T. Obszarny. 2,421,642; June 3.
- Electromagnet structure. A. Warsher. 2,427,826; Sept. 23.
- Electromagnet, Three position. C. S. Snively. 2,425,843; Aug. 19.
- Electromagnetic contactor. R. B. Immel. 2,414,468; Jan. 21.
- Electromagnetic control switch. C. C. Whittaker. 2,428,599; Oct. 7.
- Electromagnetic current-interruption indicating means for electric time instruments. A. B. Poole. 2,430,732; Nov. 11.
- Electromagnetic device. C. R. Mason and L. A. Burton. 2,414,961; Jan. 28.
- Electromagnetic device. L. S. Walle. 2,425,770; Aug. 19.
- Electromagnetic device, Shockproof. G. M. Stapleton. 2,424,776; July 29.
- Electromagnetic impulse motor. H. E. Upham. 2,415,715; Feb. 11.
- Electromagnetic induction apparatus. T. T. Short. 2,432,343; Dec. 9.
- Electromagnetic means for feeding ferromagnetic charge to a furnace. H. A. Strickland, Jr. 2,415,376; Feb. 4.
- Electromagnetic motor. S. E. Werner and A. O. Jorgensen. 2,432,600; Dec. 16.
- Electromagnetic motor. J. B. Whitted. 2,430,151; Nov. 4.
- Electromagnetic operator. W. A. Ray. 2,422,260; June 17.
- Electromagnetic regulator. W. G. Neild. 2,427,806; Sept. 23.
- Electromagnetic relay. C. M. Theillaumas. 2,423,126; July 1.
- Electromagnetic relay circuit. B. M. Hadfield. 2,421,148; May 27.
- Electromagnetic reset valve. W. A. Ray. 2,422,368; June 17.
- Electromagnetic switch. W. D. Kyle, Jr., and C. Schindler. 2,414,956; Jan. 28.
- Electromagnetic switch. J. F. O'Brien and E. S. Boynton. 2,417,438; Mar. 18.
- Electromagnetic switch. H. E. Schleicher. 2,421,290; May 27.
- Electromagnetic testing. T. Zuschlag. 2,429,336; Oct. 21.
- Electromagnetic-wave investigations of earth formations. W. M. Barret. 2,426,918; Sept. 2.
- Electromagnetic wave reflection system. H. T. Budenbom. 2,432,984; Dec. 23.
- Electromechanical apparatus. D. L. Arenberg. 2,418,964; Apr. 15.
- Electromechanical device. H. Fuchs. 2,419,014; Apr. 15.
- Electromechanical phasing device. A. Kahn, J. C. Phelps, and J. A. Spencer. 2,431,643; Nov. 25.
- Electromechanical integrating device with inverse feedback. R. C. Dehmel. 2,432,141; Dec. 9.
- Electron device and radiator. W. Zelinka. 2,431,157; Nov. 18.
- Electron device of the magnetron type. J. R. Pierce. 2,414,121; Jan. 14.
- Electron discharge apparatus. F. B. Llewellyn. 2,426,626; Sept. 2.
- Electron discharge apparatus. A. M. Skellett. 2,433,403; Dec. 30.
- Electron discharge apparatus incorporating high frequency resonators. J. H. Fremlin. 2,414,517; Jan. 21.
- Electron discharge apparatus, Velocity modulation. E. Feenberg. 2,431,688; Dec. 2.
- Electron discharge device. G. H. P. Alma and B. G. Dammers. 2,420,345; May 13.
- Electron discharge device. J. E. Clark and V. L. Ronci. 2,413,689; Jan. 7.
- Electron discharge device. T. T. Eaton. 2,416,914; Mar. 4.
- Electron discharge device. C. E. Fay and J. W. West. 2,414,805; Jan. 28.
- Electron discharge device. C. T. Goddard. 2,416,799; Mar. 4.
- Electron discharge device. A. V. Haeff. 2,433,044; Dec. 23.



- Electron discharge device. D. A. S. Hale and V. L. Ronci. 2,418,117; Apr. 1.
- Electron discharge device. P. L. Hartman. 2,416,315; Feb. 25.
- Electron discharge device. W. Hotine. 2,416,318; Feb. 25.
- Electron discharge device. J. P. Laico and V. L. Ronci. 2,419,572; Apr. 29.
- Electron discharge device. C. V. Litton. 2,419,578; Apr. 29.
- Electron discharge device. F. B. Llewellyn. 2,425,748; Aug. 19.
- Electron discharge device. J. O. McNally. 2,413,725; Jan. 7.
- Electron discharge device. J. R. Pierce. 2,416,714; Mar. 4.
- Electron discharge device. J. D. Schantz. 2,423,998; July 15.
- Electron discharge device. R. W. Sears. 2,417,450; Mar. 18.
- Electron discharge device. P. W. Stutsman. 2,428,048; Sept. 30.
- Electron discharge device. K. Van Gessel. 2,431,097; Nov. 18.
- Electron discharge device. J. W. West. 2,413,738; Jan. 7.
- Electron discharge device. J. W. West. 2,414,500; Jan. 21.
- Electron discharge device. E. K. Wimpy and L. C. Werner. 2,429,301; Oct. 21.
- Electron discharge device and associated circuit. S. Hill. 2,417,551; Mar. 18.
- Electron discharge device, Beam type. W. H. Warren. 2,427,888; Sept. 23.
- Electron discharge device employing a cavity resonator. L. S. Nergaard. 2,431,273; Nov. 18.
- Electron discharge device having coupled coaxial line resonators. L. P. Smith. 2,419,172; Apr. 15.
- Electron discharge device of the cavity resonator type. J. M. Spooner. 2,421,912; June 10.
- Electron discharge device of the cavity resonator type. R. P. Stone. 2,433,634; Dec. 30.
- Electron discharge device of the plural cavity resonator type. P. L. Spencer. 2,423,161; July 1.
- Electron discharge device system, Ultra high frequency. R. Sloss. 2,425,352; Aug. 12.
- Electron discharge device with beam deflecting resonator. L. Malter. 2,415,749; Feb. 11.
- Electron discharge devices, Making. F. H. McIntosh. 2,415,360; Feb. 4.
- Electron discharge devices, Manufacture of. A. L. Samuel. 2,413,731; Jan. 7.
- Electron discharge tube. J. Foster. 2,419,544; Apr. 29.
- Electron discharge tube. J. H. Fremlin. 2,416,299; Feb. 25.
- Electron emission type of pulse generator, Secondary. A. M. Skellett. 2,428,819; Oct. 14.
- Electron focusing apparatus. W. E. Bradley. 2,433,682; Dec. 30.
- Electron gun mounting. P. C. Smith. 2,420,207; May 6.
- Electron lens systems, Correcting for distortion in. J. Hillier and R. F. Baker. 2,418,349; Apr. 1.
- Electron microscope apparatus. C. H. Bachman and S. Ramo. 2,424,791; July 29.
- Electron multiplier. M. Cawein. 2,418,574; Apr. 8.
- Electron multiplier. R. D. Reilly. 2,431,507; Nov. 25.
- Electron multiplier gain control. J. A. Buckbee. 2,432,654; Dec. 16.
- Electron multiplier, Variable gain. M. Cawein. 2,416,376; Feb. 25.
- Electron probe analysis employing X-ray spectrography. J. Hillier. 2,418,029; Mar. 25.
- Electron tube. H. Branson. 2,414,137; Jan. 14.
- Electron tube. L. H. Crook. 2,428,013; Sept. 30.
- Electron tube. W. W. Eitel and J. A. McCullough. 2,424,683; July 29.
- Electron tube tapping device for defect testing. C. A. Vogt. 2,418,437; Apr. 1.
- Electron tube with secondary emissive grid. W. W. Eitel and J. A. McCullough. 2,430,218; Nov. 4.
- Electronic accumulator. R. E. Mumma and E. V. Gulden. 2,426,279; Aug. 26.
- Electronic amplifier controlled relay. W. H. Gille, W. J. Field, and T. J. Wilson. 2,425,734; Aug. 19.
- Electronic apparatus. W. M. Goodall. 2,416,302; Feb. 25.
- Electronic commutator. D. S. Muzzey, Jr., and R. Du W. Miller. 2,417,609; Mar. 18.
- Electronic computing circuit. R. L. Snyder, Jr. 2,425,131; Aug. 5.
- Electronic computing circuit. A. W. Vance. 2,425,405; Aug. 12.
- Electronic computing device. J. A. Rajchman and G. A. Morton. 2,433,237; Dec. 23.
- Electronic computing device. J. A. Rajchman and R. L. Snyder, Jr. 2,433,236; Dec. 23.
- Electronic counter circuit. H. B. Deal. 2,432,292; Dec. 9.
- Electronic device. J. R. Desch and R. E. Mumma. 2,419,485; Apr. 22.
- Electronic device. E. B. Gulden. 2,416,095; Feb. 18.
- Electronic device. R. E. Mumma. 2,422,583; June 17.
- Electronic device. R. E. Mumma. 2,426,278; Aug. 26.
- Electronic device. J. E. White. 2,431,153; Nov. 18.
- Electronic device, Back-view. R. G. Scell. 2,426,752; Sept. 2.
- Electronic device, High-frequency. J. E. Beggs. 2,416,565; Feb. 25.
- Electronic device, Ultra high frequency. A. E. Bowen. 2,416,283; Feb. 25.
- Electronic discharge device. H. L. Loudon. 2,422,427; June 17.
- Electronic discharge device. P. L. Spencer. 2,430,309; Nov. 4.
- Electronic discharge device. W. W. Watrous, Jr. 2,415,980; Feb. 18.
- Electronic discharge device for generating ultra-high frequency radiation, High power. C. E. Fay. 2,423,443; July 8.
- Electronic discharge device for ultra high frequency energy generation. J. W. West. 2,423,444; July 8.
- Electronic discharge device of the magnetron type. W. C. Brown. 2,416,899; Mar. 4.
- Electronic frequency multiplier. C. J. Madsen. 2,414,541; Jan. 21.
- Electronic keying circuit. F. M. Berry and W. R. Lewis. 2,425,667; Aug. 12.
- Electronic ratio bridge system repeater. A. W. Borsum. 2,416,678; Mar. 4.
- Electronic regulator. H. Ziebolz. 2,428,747; Oct. 7.
- Electronic switch. J. K. Johnson. 2,426,454; Aug. 26.
- Electronic switch. A. G. Thomas. 2,432,260; Dec. 9.
- Electronic switching device. W. P. Overbeck. 2,427,533; Sept. 16.
- Electronic time indicating device. O. T. Francis. 2,417,070; Mar. 11.
- Electronic timing apparatus. W. H. Bruns and H. E. Galanty. 2,433,424; Dec. 30.
- Electronic timing apparatus. D. E. Kenyon. 2,414,107; Jan. 14.
- Electrooptical device. B. M. Oliver. 2,415,842; Feb. 18.
- Electrooptical device. G. K. Teal. 2,416,720; Mar. 4.
- Electro-optical device. G. K. Teal. 2,423,124; July 1.
- Electrooptical feedback system. A. Badmaieff. 2,414,686; Jan. 21.
- Electroplating composition, Nickel. R. A. Hoffman. 2,427,280; Sept. 9.
- Electrostatic coating method. R. E. Helmuth. 2,421,787; June 10.
- Electrostatic machine. A. E. Landerholm. 2,415,640; Feb. 11.
- Electrotherapeutic device. L. Vecchio and H. E. Young. 2,431,525; Nov. 25.
- Electrotherapy. F. Weinman. 2,418,917; Apr. 15.
- Elevating device. W. W. Wohlforth. 2,414,684; Jan. 21.
- Elevator. F. A. Novotney. 2,426,114; Aug. 19.
- Elevator and tab control mechanism. H. O. Wendt. 2,431,529; Nov. 25.
- Elevator boot construction. G. E. Hulse. 2,433,697; Dec. 30.
- Elevator device. G. E. Mullinix. 2,425,753; Aug. 19.
- Elevator door lock. A. W. Bleye. 2,428,063; Sept. 30.
- Elevator, Hydraulically operated. C. H. Reedy. 2,417,947; Mar. 25.
- Elevator leveling system. D. Santini. 2,414,562; Jan. 21.
- Elevator, Portable grain. R. Jeoffroy. 2,417,111; Mar. 11.
- Elevator type means for drying ceramic ware. J. A. Johnson. 2,423,030; June 24.
- Elevating and distributing system, Water. A. S. Feinberg. 2,428,842; Oct. 14.
- Eliminating foaming in the recovery of sulphuric acid from an olefin recovery operation. J. H. Cone. 2,426,082; Aug. 19.
- Eliminating foaming in the recovery of sulphuric acid from an olefin recovery operation. B. M. Filbert. 2,426,088; Aug. 19.
- Eliminator, Solder splash. W. M. Sedwick. 2,433,068; Dec. 23.
- Ellipsograph. O. J. Hobson. 2,415,283; Feb. 4.
- Embedded material, Method and means for removing. A. A. Holfelder. 2,415,690; Feb. 11.
- Embossing device, Cap. W. H. Kagley. 2,425,374; Aug. 12.
- Embroidering machine. J. L. Fogel. 2,423,092; July 1.
- Emergency door apparatus. R. A. Miller. 2,421,900; June 10.
- Emergency valve. R. Temple. 2,414,911; Jan. 28.
- Emery wheel dresser. S. B. Finnerty. 2,415,790; Feb. 11.
- Emulsifying and whipping agents. N. F. Johnston. 2,422,486; June 17.
- Emulsion. E. Berl. 2,413,855; Jan. 7.
- Emulsion polymerizate latices, Stripping. E. O. Ohsol and W. W. Waterman. 2,433,060; Dec. 23.
- Emulsions, Breaking of. A. P. Shearer, L. B. Witten, and T. Cubin. 2,429,965; Oct. 28.
- Emulsions, Breaking petroleum. C. M. Blair, Jr. 2,422,822; June 24.
- Emulsions containing supersensitizing dye combinations, Photographic. R. B. Collins and H. O. Dickinson. 2,422,080; June 10.
- Emulsions, Controlling lubricating. J. A. De Cew. 2,431,657; Nov. 25.
- Emulsions, Dehydration of. A. D. Small. 2,420,687; May 20.
- Emulsions for painting and varnishing purposes. G. B. Heijmer. 2,424,458; July 22.
- Enamel containing furfuryl alcohol condensate and polyvinyl acetal. H. J. Kauth. 2,432,623; Dec. 16.
- Enamel for resistors. A. J. Deyrup. 2,425,032; Aug. 5.



- Enamel opacifier, Production of vitreous. A. J. Lubertine. 2,427,682; Sept. 23.
- Enamel opacifier, Vitreous. V. H. Waite and H. B. Allport. 2,423,212; July 1.
- Enamelled article, Vitreous. G. R. Simmons. 2,421,719; June 3.
- Enclosed circuit breaker position indicator. W. H. Schymik. 2,420,842; May 20.
- End closure for tearing strip cans. J. E. Socke. 2,428,393; Oct. 7.
- End construction for paper containers. J. Fitch. 2,417,298; Mar. 11.
- End ice bunker car. C. L. Moorman. 2,429,274; Oct. 21.
- Endless band tool. W. B. Boice. 2,431,605; Nov. 25.
- Endless cable mail carrier. J. H. Bernau. 2,425,141; Aug. 5.
- Ends of metallic tubing, Bonding adjacent. R. D. Wasserman. 2,424,522; July 22.
- Endothermic catalytic conversion of hydrocarbons. F. W. Leffer. 2,422,791; June 24.
- Energy dissipating antivibration device. L. F. Thiry. 2,432,050; Dec. 2.
- Engine: See—
- Barrel type engine. Pressure-expansion rotary engine.
- Cam engine. Radial aircraft engine.
- Cooling and internal-combustion engine. Rotary Diesel engine.
- Differential convertible gasoline-Diesel engine. Rotary engine.
- Expansion engine. Rotary internal-combustion engine.
- Fluid pressure engine. Six cycle engine.
- Free piston engine. Toy electrical engine.
- Internal-combustion engine. Two-cycle engine.
- Multicylinder opposed-piston internal combustion engine. Two-cycle gas engine.
- Multiple opposed piston engine. Two-stroke cycle internal-combustion engine.
- Opposed piston engine. Two-stroke cycle internal-combustion engine.
- Oscillating piston internal-combustion engine. Variable compression engine.
- Parallel piston engine. Wobble plate engine.
- Engine. A. R. Earnshaw. 2,428,791; Oct. 14.
- Engine. C. E. Frank. 2,413,820; Jan. 7.
- Engine. C. E. Frank and R. A. Wyatt. 2,419,066; Apr. 15.
- Engine. W. G. Gernandt. 2,415,130; Feb. 4.
- Engine. D. L. Jocelyn. 2,427,284; Sept. 9.
- Engine. F. Kucera. 2,429,725; Oct. 28.
- Engine. S. Tatar. 2,417,142; Mar. 11.
- Engine and attachment, Internal-combustion. E. M. Fisk. 2,425,181; Aug. 5.
- Engine and propeller unit, Aircraft. G. Muffy. 2,419,787; Apr. 29.
- Engine and torque transmitter control. E. Grieshaber and W. J. Johnson. 2,421,496; June 3.
- Engine control. F. C. Mock. 2,426,740; Sept. 2.
- Engine control system. W. A. Ray. 2,423,728; July 8.
- Engine controller. C. H. Jorgensen and L. C. Dermond. 2,432,903; Dec. 16.
- Engine controller. A. M. Starr. 2,431,516; Nov. 25.
- Engine failure warning device. E. W. Bourne, Jr. 2,429,920; Oct. 28.
- Engine governor. J. O. Heinze. 2,414,947; Jan. 28.
- Engine governor. M. Mallory. 2,424,836; July 29.
- Engine heating cover system. J. N. Ditzler, C. and H. D. Oberdorfer. 2,417,636; Mar. 18.
- Engine mounting. M. A. Hall. 2,431,931; Dec. 2.
- Engine of the rotating abutment type, Rotary internal-combustion. J. Pareso. 2,423,763; July 8.
- Engine of the sliding abutment type, Rotary internal-combustion. A. E. Melrose. 2,421,898; June 10.
- Engine, opposed sliding abutments, Rotary cylinder. F. Beall. 2,426,428; Aug. 26.
- Engine, propeller, and fan drive. P. E. Mercier. 2,426,635; Sept. 2.
- Engine rocker arm. G. M. Leake. 2,415,213; Feb. 4.
- Engine shipping case. J. H. Allington. 2,418,861; Apr. 15.
- Engine shipping case. G. N. Cole and F. H. Hopper. 2,418,868; Apr. 15.
- Engine starter. J. E. Buxton. 2,423,063; June 24.
- Engine starter. J. E. Buxton. 2,429,388; Oct. 21.
- Engine starter. E. E. Hood, F. T. Christian, and J. E. Engine starter. G. S. Thompson. 2,422,319; June 17.
- Engine starter. F. Wright. 2,429,863; Oct. 28.
- Engine starter clutch. R. M. Nardone. 2,424,494; July 22.
- Engine starter drive. D. L. Miller. 2,420,288; May 6.
- Buxton. 2,423,068; June 24.
- Engine starting fluid, Diesel. R. W. Goodale. 2,431,322; Nov. 25.
- Engine warming apparatus. A. W. Ruff. 2,418,097; Mar. 25.
- Engine with keyed connection between piston rod and crosshead, Steam. E. C. Read. 2,431,619; Nov. 25.
- Engine with stratified mixture. A. Bagnulo. 2,422,610; June 17.
- Engine with supercharger driven by parallel high- and low-pressure staged exhaust gas turbine, Two-cycle. J. E. Johansson. 2,431,563; Nov. 25.
- Engineering curve, Adjustable. C. Lundberg. 2,424,042; July 15.
- Engines, Construction of internal-combustion. E. P. Paxman. 2,429,105-6; Oct. 14.
- Engines, Operating internal-combustion. W. N. Fenney. 2,431,857; Dec. 2.
- Engines, Operating internal-combustion. K. D. Mackenzie. 2,431,875; Dec. 2.
- Engines, Operating internal combustion. F. Nettel. 2,420,325; May 13.
- Engines to facilitate adjustment and repair, Supporting internal-combustion. E. P. Paxman. 2,432,487; Dec. 9.
- Enlarger, Auto-focus. A. Simmon and L. L. Weisglass. 2,430,252; Nov. 4.
- Enol esters of aldehydes, Preparing. D. C. Hull and A. H. Agett. 2,422,679; June 24.
- Entry retaining device for totalizers. H. P. Luhn. 2,424,322; July 22.
- Envelope. W. Baluk. 2,417,050; Mar. 11.
- Envelope moisture. H. Lachapelle. 2,418,035; Mar. 25.
- Envelope or the like, Locking. T. E. Walsh. 2,426,908; Sept. 2.
- Epicyclic drive. L. H. Browne. 2,427,253; Sept. 9.
- Epilator. D. Herrmann and F. L. Haley. 2,425,696; Aug. 12.
- Equalized drive, Self-locking. J. W. Mynssen, M. Ehrsam, and K. Künzi. 2,431,272; Nov. 18.
- Equalized single-phase traction motor. H. G. Jungk. 2,424,318; July 22.
- Equalizer. S. M. McM. Burke. 2,423,550; July 8.
- Equalizer, Flow. W. C. Trautman and A. A. Meddock. 2,413,896; Jan. 7.
- Equalizer for plastic extruders, Tension. H. T. Tornberg. 2,421,132; May 27.
- Equalizing valve. W. T. Stephens. 2,423,264; July 1.
- Equipment for aeroplanes, Safety landing. J. W. Bowles. 2,432,375; Dec. 9.
- Equipment for circuit makers and breakers, Protective. W. O. Schultz. 2,421,718; June 3.
- Equipment for grinding brake-shoe lining sections. H. B. Barrett. 2,421,180; May 27.
- Equipment for magical effects. J. W. Petrie. 2,432,337; Dec. 9.
- Equipment for the projection of stereoscopic views and films. F. Savoye. 2,421,393; June 3.
- Equipment for treating sewage. W. Sharp. 2,415,048; Jan. 28.
- Equipment for vehicle brakes, Load gear. B. H. Browall. 2,417,859; Mar. 25.
- Equipment, Treatment of. W. D. Seyfried and J. C. Schiller. 2,425,842; Aug. 19.
- Eradicator, Boll weevil. C. V. Henley. 2,419,353; Apr. 22.
- Eraser. R. Veria. 2,419,746; Apr. 29.
- Eraser, Adjustable. J. Gerster-Seller. 2,417,925; Mar. 25.
- Eraser, Mechanically actuated fine point. A. W. Wonders. 2,431,156; Nov. 18.
- Erecting apparatus. R. J. Stoddard. 2,421,913; June 10.
- Erecting large span buildings. M. A. Fouhy. 2,415,240; Feb. 4.
- Erecting system for telescopic instruments, Body and modified first porro type. J. R. Miles. 2,424,282; July 22.
- Escutcheon for electrical outlets, Illuminated. W. C. Linton. 2,428,167; Sept. 30.
- Escutcheon plate fastener. W. R. Schlage. 2,423,206; July 1.
- Ester derivatives of lignin sulphates. K. Longley. 2,419,783; Apr. 29.
- Ester of an unsaturated polycarboxylic acid, phthalic acid, and a lower aliphatic glycol, Polymerizable mixed. I. E. Muskat. 2,423,042; June 24.
- Esterification. W. B. Pratt. 2,429,643-5; Oct. 28.
- Esterification process. A. E. Bearse and R. D. Morin. 2,414,999; Jan. 28.
- Esterifying polyhydric organic compounds. H. W. Grubb, L. M. O'Hara, and K. Atwood. 2,426,968; Sept. 2.
- Esters and polymers thereof, Polymerizable. L. N. Whitehill and E. C. Shokal. 2,427,640; Sept. 16.
- Esters and preparing the same, Air drying mixed. R. Barthel. 2,420,694; May 20.
- Esters of chloro nitro alcohols, Higher. J. B. Tindall. 2,427,821; Sept. 23.
- Esters of diarylpropionic acids, Alkamine. R. B. Holmes and A. J. Hill. 2,423,025; June 24.
- Esters of endoethylene-substituted cyclopentanols. H. A. Bruson. 2,426,725; Sept. 2.
- Esters of hydroxydihydronorpolycyclopentadienes and unsaturated fatty acids. H. A. Bruson. 2,414,089; Jan. 14.
- Esters of hydroxyphenyl trichloromethyl carbinols. N. E. Searle. 2,426,417; Aug. 26.
- Esters of lignin material. H. F. Lewis and F. E. Brauns. 2,429,102; Oct. 14.
- Esters of methacrylic acid, Continuous production of. L. T. Jilk. 2,416,756; Mar. 4.
- Esters of monoalkyl isobutyl acetic acids, Basic. H. Martin and A. Margot. 2,417,208; Mar. 11.
- Esters of phosphoric acid, Production of neutral. D. C. Hull and A. H. Agett. 2,430,569; Nov. 11.
- Esters of 7,8-diamino nonoic acid. S. A. Harris. 2,424,311; July 22.
- Esters of sulphobenzoid acids, Oleyl. E. W. Gluesenkamp and M. Kosmin. 2,423,972; July 15.



- Esters of valerolactone. R. Daniels and H. Levy. 2,428,015; Sept. 30.
- Esters of w-cyanoguanilyliminodithio-carbonic acid. J. T. Thurston and D. W. Kaiser. 2,418,959; Apr. 15.
- Esters, Phosphoric acid. L. C. Kemp, Jr. 2,414,263; Jan. 14.
- Esters, Production of. A. E. Bearse and R. D. Morin. 2,415,000; Jan. 28.
- Esters, Production of cellulose. C. I. Haney and M. E. Martin. 2,414,869; Jan. 28.
- Estimating instrument. R. R. Reynolds. 2,429,277; Oct. 21.
- Estradiol from equillin and intermediates obtained thereby, Preparing. E. Schwenk, E. Bloch, and B. Whitman. 2,418,603; Apr. 8.
- Etching bath, Electrolytic. K. J. Carson and J. M. Kelly. 2,421,316; May 27.
- Etching machine. S. D. Swann. 2,415,450; Feb. 11.
- Etching metal, Composition for. J. C. Lum and G. W. Jernstedt. 2,428,464; Oct. 7.
- Ethane and gasoline from natural gas, Recovery of. J. W. Latchum, Jr. 2,428,521; Oct. 7.
- Ether-cellulose derivative and making same, Unsaturated. J. B. Rust. 2,415,041; Jan. 28.
- Ether of amino-diphenylamines, Chlorinated-aliphatic. J. P. Goulding, R. P. Parker, and J. J. Denton. 2,426,576; Aug. 26.
- Ether sulphates and their production. R. C. Smith. 2,427,576; Sept. 16.
- Ether sulphates, Production of. R. C. Smith. 2,427,577; Sept. 16.
- Ethers of cyclic sulfones, Unsaturated. R. C. Morris and E. C. Shokal. 2,419,082; Apr. 15.
- Ethers of esters of lactic acid. H. R. Guest, L. G. MacDowell, and R. W. McNamee. 2,421,378; June 3.
- Ethers of mercapto-acids as milling aids for butadiene-styrene copolymers, Additive terpene. J. R. Vincent and G. Etzel. 2,429,858; Oct. 28.
- Ethers, Preparation of. P. H. Carnell. 2,430,388; Nov. 4.
- Ethers, Production of cellulose. J. H. Sharpouse and J. Downing. 2,425,351; Aug. 12.
- Ethers, Unsaturated cyclic. H. A. Bruson. 2,421,597; June 3.
- Ethyl, alpha, alpha-dimethyl butyrate, Manufacture of. T. A. Ford. 2,424,653; July 29.
- Ethyl alcohol, Producing. L. J. Wickerham. 2,431,004; Nov. 18.
- Ethyl benzene, Catalytic production of. J. H. Hirsch. 2,429,622; Oct. 28.
- Ethyl cellulose and making the same, Plasticized. A. J. Warner and W. D. Crafer, Jr. 2,421,046; May 27.
- Ethyl cellulose gels and preparing same. M. T. Harvey. 2,418,583; Apr. 8.
- Ethyl esters of acetyl mandelyl-beta-alanine and preparing same. H. Urist and G. J. Martin. 2,428,535; Oct. 7.
- Ethyl ether, Hydrolysis of. R. C. Tollerfson. 2,413,802; Jan. 7.
- Ethyl fluosulfonate, Preparation of. C. B. Linn. 2,428,755; Oct. 7.
- Ethylated aromatic compounds, Synthesis of. B. B. Corson and L. J. Brady. 2,417,454; Mar. 18.
- Ethylene- and propylene-diamine, N,N'-tetra-acetic acids, Lower aliphatic esters of. F. C. Bersworth. 2,428,353; Oct. 7.
- Ethylenebisiminodiacetic acid and salts thereof, Preparation of. E. G. Parry. 2,419,157; Apr. 15.
- Ethylene chlorohydrin from higher chlorohydrins, Separation of. J. R. Heard, Jr. 2,417,685; Mar. 18.
- Ethylene glycol-isopropylene glycol-sebacic acid-acetic acid polyester. C. J. Frosch. 2,423,093; July 1.
- Ethylene, Polymerization of. M. D. Peterson. 2,425,638; Aug. 12.
- Ethyleneurea, Preparation of. H. R. Dittmar and D. J. Loder. 2,416,046; Feb. 18.
- Ethyleneurea, Preparation of. G. C. Hale. 2,430,874; Nov. 18.
- Ethyleneurea, Preparation of. A. T. Larson and D. J. Loder. 2,416,057; Feb. 18.
- Ethyleneurea, Preparation of. D. J. Loder. 2,425,627; Aug. 12.
- Ethylene-vinyl chloride polymers. M. M. Brubaker, J. R. Roland, and M. D. Peterson. 2,422,392; June 17.
- Ethylene, Vulcanization of halogenated polymers of. Ethylene with organic carboxylic acids, Reaction of. J. R. Roland and J. Harmon. 2,433,015; Dec. 23.
- S. L. Scott. 2,416,069; Feb. 18.
- Ethynyl barbinols, Producing. W. Oroshnik. 2,425,201; Aug. 5.
- Evacuating device, Gas. J. B. Brandt, Jr. 2,419,112; Apr. 15.
- Evacuating system for mass spectrometry. H. W. Washburn. 2,431,355; Nov. 25.
- Evacuators, Centrifugal hydraulic dust. G. C. Daniels. 2,430,278; Nov. 4.
- Evaporating set. G. A. D'Aquin. 2,420,935; May 20.
- Evaporator. B. Goldman. 2,427,776; Sept. 23.
- Evaporator. M. Keim. 2,422,487; June 17.
- Evaporator. A. Vang. 2,420,691; May 20.
- Evaporator unit. B. C. Johnson. 2,414,952; Jan. 28.
- Examining device. S. A. Peck. 2,432,796; Dec. 16.
- Excavating and loading machine, Material. J. Trinaistich. 2,420,848; May 20.
- Excavating tooth. J. Baer. 2,427,651; Sept. 23.
- Excavation angle. R. Raymond. 2,420,797; May 20.
- Excavator. E. C. Hartley. 2,424,822; July 29.
- Excavator and loader. W. A. Le Du. 2,415,597; Feb. 11.
- Excavator apparatus. F. A. Gallaher. 2,416,826; Mar. 4.
- Excavating machine. E. Beyer. 2,428,694; Oct. 7.
- Excavating tooth. A. W. Daniels and J. P. Murtaugh. 2,419,677; Apr. 29.
- Excavator, Portable. F. L. White. 2,420,990-1; May 20.
- Excavator, Snow. N. L. James. 2,419,779; Apr. 29.
- Exchange system, Private automatic branch. F. P. Gohorel. 2,424,563; July 29.
- Excitation system. C. Lynn. 2,417,770; Mar. 18.
- Exerciser. J. Ecks. 2,433,548; Dec. 30.
- Exercising device. J. D. Bell. 2,418,154; Apr. 1.
- Exercising device. W. J. Rogers. 2,414,063; Jan. 7.
- Exercising device. M. Walker. 2,425,971; Aug. 19.
- Exercising machine. W. J. S. Johnson. 2,419,998; May 6.
- Exhauster, Portable welding fume. L. Silverman and F. J. Viles, Jr. 2,414,564; Jan. 21.
- Exhausting fan, Portable electric. A. A. von Sneidern. 2,421,304; May 27.
- Exothermic catalytic reactions, Effecting. L. S. Kassel. 2,428,914; Oct. 14.
- Exothermic mixture for use on surfaces of molten metal in molds. M. J. Udy. 2,426,849; Sept. 2.
- Expander. W. H. Hunter. 2,431,937; Dec. 2.
- Expanding hose reel. L. A. Craig. 2,426,984; Sept. 9.
- Expansive chain. L. C. Miller. 2,430,776; Nov. 11.
- Expansive honing tool. J. Gazalos. 2,419,067; Apr. 15.
- Expansive wheel. P. Morin. 2,433,474; Dec. 30.
- Expansion engine. W. Dennis. 2,413,751; Jan. 7.
- Expansion joint. L. W. Schrader. 2,422,502; June 17.
- Expansion joint. S. Tobey, J. J. Mank, and S. Zallea. 2,414,987; Jan. 28.
- Explosive. H. H. Fassnacht and C. A. Woodbury. 2,425,310; Aug. 12.
- Explosive. D. C. Lindsten. 2,432,578; Dec. 16.
- Explosive assembly, Blasting. R. E. Fogg. 2,415,422; Feb. 11.
- Explosive, Blasting. C. D. Bitting and R. W. Lawrence. 2,433,417; Dec. 30.
- Explosive, Blasting. A. M. Cohan. 2,413,862; Jan. 7.
- Explosive composition. R. W. Cairns. 2,430,274; Nov. 4.
- Explosive compounds. J. D. Brandner. 2,415,001; Jan. 28.
- Explosive device. N. M. Hopkins. 2,426,269; Aug. 26.
- Explosive purification. J. G. Burtie. 2,418,753; Apr. 8.
- Explosive-release mechanism. D. M. Richey and B. J. Traynor. 2,421,807; June 10.
- Explosives. F. R. Seavey. 2,415,045; Jan. 28.
- Explosives in boreholes, Positioning. J. L. Bisch. 2,433,543; Dec. 30.
- Explosives, Initiating. J. Fleischer and J. G. Burtie. 2,421,778; June 10.
- Explosives, Manufacture of propellant. C. E. Silk and G. C. Dintelmann. 2,417,090; Mar. 11.
- Express receipt holder. A. J. Hopkins. 2,423,027; June 24.
- Extension bit. F. H. Drago. 2,430,392; Nov. 4.
- Extension light for flashlights. H. A. Goudreau. 2,427,051; Sept. 9.
- Extension mechanism, Emergency. G. H. Dowty. 2,424,926; July 29.
- Extension table. T. E. McFall. 2,420,787; May 20.
- External anode electron tube. G. A. Becker. 2,422,819; June 24.
- External contracting band brake. A. J. Musselman. 2,425,116; Aug. 5.
- Extinguishing fires, Composition for and method of. D. A. McLean. 2,421,035; May 27.
- Extract solutions, Drying of. A. E. Siehrs. 2,431,622-3; Nov. 25.
- Extractants and concentrating organic acids. C. E. Staff. 2,430,086; Nov. 4.
- Extracting broken drills and the like. N. A. Sorensen. 2,429,967; Oct. 28.
- Extracting hairs by using adhesive tape, Method and device for. C. E. and L. L. Magnus. 2,423,245; July 1.
- Extraction agents for phenolic compounds, Recovery of. A. Dierichs. 2,415,087; Feb. 4.
- Extractor. See—  
     Blood extractor.      Pipe extractor.  
     Fruit juice extractor.      Tooth extractor.  
     Journal bearing extractor.
- Extractor. J. P. Jorgenson and A. G. Kling. 2,428,710; Oct. 7.
- Extractor-and-breech-bolt assembly for firearms. J. H. Delsol. 2,421,249; May 27.
- Extractor and foot and head severing device, Combination tendon. H. A. Alexander. 2,425,077; Aug. 5.
- Extractor and replacer including broken lamp cap extractor, Screw lamp. E. Leigh. 2,429,884; Oct. 28.
- Extractor-ejector for firearms. C. C. Loomis. 2,415,952; Feb. 18.
- Extractor for firearms. P. E. Lowe and O. A. Ross. 2,415,953; Feb. 18.
- Extractor for high consistency mixtures, Self-cleaning fluid. J. J. de la Roza, Sr. 2,427,662; Sept. 23.
- Extractor, Juice. G. W. Du Laney. 2,413,866; Jan. 7.
- Extracts, Hormone. A. S. Cook and G. A. Grant. 2,429,398; Oct. 21.
- Extruder, Method of and apparatus for rotary. C. Field. 2,427,644; Sept. 16.



- Extruding, Process and apparatus for. D. N. Davies and F. H. Churchman. 2,422,953; June 24.
- Extrusion apparatus. F. J. Flietitz. 2,422,722; June 24.
- Extrusion apparatus. W. Klocke. 2,415,696; Feb. 11.
- Extrusion apparatus. R. A. Montamat. 2,428,851; Oct. 14.
- Extrusion apparatus and method. V. Jacobson. 2,417,165; Mar. 11.
- Extrusion apparatus and process. H. B. Duncan. 2,414,029; Jan. 7.
- Extrusion device for forming pellets. H. Doesken. 2,432,734; Dec. 16.
- Extrusion machine. F. T. Griffiths. 2,427,960; Sept. 23.
- Eye color reflex sensation, Method and apparatus for determining. P. S. Newton. 2,425,821; Aug. 19.
- Eye cover. A. A. Bushnell. 2,415,384; Feb. 4.
- Eyeglass protector. A. J. Turner. 2,418,376; Apr. 1.
- Eyelash, Artificial. F. R. Phillips. 2,421,432; June 3.
- Eyepiece. F. E. Altman. 2,423,676; July 8.
- Eyepiece unit for telescopic systems of the class including binoculars. J. R. Miles. 2,419,151; Apr. 15.
- Eye shield. J. E. Du Bois. 2,422,534; June 17.
- Eyeshield for headgear. H. Vaca. 2,425,847; Aug. 19.
- Eyeshield, Golfer's. W. G. Barr. 2,433,590; Dec. 30.
- Eyeshield, Industrial. R. L. Malcom and W. Z. Whipple. 2,427,918; Sept. 23.
- Eye-testing apparatus for indicating pupillary diameters. N. Miller. 2,424,363; July 22.
- Fabric: See—
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|----------------------------|-------------------------|
| Coated fabric.             | Pile fabric.            |
| Coated fluorescent fabric. | Textile fabric.         |
| Gas impervious fabric.     | Wool type fabric.       |
| Insulating fabric.         | Worsted type of fabric. |
| Knit fabric.               | Woven textile fabric.   |
| Knitted fabric.            |                         |
- Fabric. S. W. Alerrfer. Re. 22,831; Jan. 21.
- Fabric abrading tester. R. L. Hood. 2,423,704; July 8.
- Fabric and making same. T. G. Hawley, Jr. 2,413,970; Jan. 7.
- Fabric and making the same, Flat woven. W. S. Nutter. 2,417,319; Mar. 11.
- Fabric and manufacturing articles therefrom. S. W. Alderfer. 2,431,977; Dec. 2.
- Fabric, Coating stitched. I. Y. Goldman. 2,433,270; Dec. 23.
- Fabric drill. S. Widlarz. 2,415,545; Feb. 11.
- Fabric envelope for storage battery plates. C. C. White. 2,420,456; May 13.
- Fabric for handbag, Ornamental. D. D. Whyte and N. Klein. 2,418,327; Apr. 1.
- Fabric in multicolor, Decoration of. F. C. Hewitt. 2,416,997; Mar. 4.
- Fabric, Manufacture of impregnated flexible. H. Snow. 2,424,861; July 29.
- Fabric mending device. C. Patasnik. 2,432,629; Dec. 16.
- Fabric or gauze of uniformly oxidized cellulose. W. O. Kenyon and C. C. Unruh. 2,423,707; July 8.
- Fabric reinforcement, Woven. F. W. Fraim. 2,419,829; Apr. 29.
- Fabric stencils, Producing mesh. E. O. Norris. 2,419,028; Apr. 15.
- Fabric structure, Warp knitted. T. H. Johnson. 2,433,279; Dec. 23.
- Fabric, Towelling. T. Sumner. 2,418,676; Apr. 8.
- Fabric tube. C. S. Hyatt and H. H. Brooks. 2,424,315; July 22.
- Fabric with polyvinyl chloride, Coating. J. H. McGill and L. B. Morgan. 2,428,716; Oct. 7.
- Fabric, Woven. H. Snow and E. A. Gullledge. 2,423,910; July 15.
- Fabrics, Cleaning. G. P. Hebard and H. E. Sheets. 2,422,897; June 24.
- Fabrics, Coating. G. W. Flanagan. 2,431,745; Dec. 2.
- Fabrics comprising cellulose acetate with an alcohol-thiocyanate swelling mixture, Dyeing of. C. M. Croft and W. H. Hindle. 2,428,835; Oct. 14.
- Fabrics containing cellulosic material and cellulosic material treated with quaternary nitrogen compounds, Dyeing. G. F. Womble and P. Feldmann. 2,430,153; Nov. 4.
- Fabrics, Making matched. A. Cadous. 2,419,389; Apr. 22.
- Fabrics, Treating. H. A. Young. 2,421,363; May 27.
- Fabrics, Weaving and woven. E. Glendinning and F. Binns. 2,424,928; July 29.
- Fabrics with acid dyes, Printing of cellulose acetate. C. M. Croft and W. H. Hindle. 2,428,836; Oct. 14.
- Fabrics with direct dyeing dyestuffs, lower aliphatic alcohols and lower aliphatic acids, Dyeing of cellulose acetate. C. M. Croft and W. H. Hindle. 2,428,834; Oct. 14.
- Fabrics with spread stitches, Making knitted. H. J. Schmidt and O. Dojan. 2,428,529; Oct. 7.
- Fabricated brush holder. C. T. Sheaks and J. H. Sansonetti. 2,419,169; Apr. 15.
- Fabricated high-pressure coupling. A. A. Burckle. 2,433,425; Dec. 30.
- Fabricated piston ring. T. A. Bowers. 2,426,385; Aug. 26.
- Fabricating articles, Method and apparatus for. P. Crosley, III. 2,419,765; Apr. 29.
- Face clutch. E. Wildhaber. 2,429,284; Oct. 21.
- Face piece. W. J. Sharbaugh and W. P. Yant. 2,416,411; Feb. 25.
- Facets on precious stones, Grinding. J. Klipper. 2,414,598; Jan. 21.
- Facility for parking and garaging airplanes. G. W. Merritt. 2,427,802; Sept. 23.
- Facings and making same, Foundry. B. P. Wallace. 2,430,655; Nov. 11.
- Facsimile apparatus. M. Artzt. 2,420,731; May 20.
- Facsimile apparatus. C. J. Young. 2,415,229; Feb. 4.
- Facsimile receiver. C. J. Young. 2,421,673; June 3.
- Facsimile recorder. C. J. Young. 2,420,457; May 13.
- Facsimile synchronizing system. H. E. Hallborg and G. R. Clark. 2,425,616; Aug. 12.
- Factory, Floating fish. L. B. Harris. 2,413,918; Jan. 7.
- Fairlead. P. J. Mochel. 2,414,658; Jan. 21.
- Fairlead. S. A. Wohler. 2,418,105; Mar. 25.
- Fairlead, Adjustable. W. M. Scarborough. 2,417,706; Mar. 18.
- Fairlead construction. H. W. Rockwell. 2,430,618; Nov. 11.
- Fan. A. A. Arnhyrn. 2,415,621; Feb. 11.
- Fan. W. O. Fislser. 2,425,789; Aug. 19.
- Fan. H. Gross. 2,417,194; Mar. 11.
- Fan. C. L. Moorman. 2,431,413; Nov. 25.
- Fan. G. A. Stokes. 2,433,795; Dec. 30.
- Fan and motor housing. T. H. Troller and C. P. Jenkins. 2,427,032; Sept. 9.
- Fan assembly. G. McLarty. 2,419,962; May 6.
- Fan, Centrifugal. R. A. Mayne and H. G. Dybvig. 2,431,647; Nov. 25.
- Fan, Centrifugal. C. Nygren. 2,415,033; Jan. 28.
- Fan construction. A. F. O'Connor. 2,430,074; Nov. 4.
- Fan, Electric. C. M. Strom. 2,420,209; May 6.
- Fan gear assembly. R. H. Jordan. 2,417,303; Mar. 11.
- Fan, Hand. F. H. Klie. 2,420,782; May 20.
- Fan hanger and like fixture support. S. Schuman. 2,414,173; Jan. 14.
- Fan, High-temperature. C. Nygren. 2,428,765; Oct. 7.
- Fare box. R. L. Care. 2,415,990; Feb. 18.
- Fast charge unit. W. E. Bruney. 2,421,828; June 10.
- Fastener: See—
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|-----------------------------|---------------------------------|
| Cargo lash fastener.        | Pressure cooker cover fastener. |
| Closure fastener.           | Pull apart separable fastener.  |
| Collar fastener.            | Quickly detachable fastener.    |
| Cowl fastener.              | Self-locking fastener.          |
| Cowling fastener.           | Slide fastener.                 |
| Detachable button fastener. | Slide loop fastener.            |
| Door fastener.              | Slide operated fastener.        |
| Escutcheon plate fastener.  | Threaded fastener.              |
| File fastener.              | Window fastener.                |
| Hasp-type fastener.         | Window guard fastener.          |
| Key fastener.               |                                 |
| Luggage fastener.           |                                 |
| Nonconductive fastener.     |                                 |
- Fastener. A. R. Adams. 2,420,060-1; May 6.
- Fastener. J. W. Simmons. 2,415,540; Feb. 11.
- Fastener. J. W. Simmons. 2,430,831; Nov. 11.
- Fastener. P. Van Sittert and W. R. Kovacs. 2,430,486; Nov. 11.
- Fastener. P. Van Sittert and W. R. Kovacs. 2,430,839; Nov. 11.
- Fastener and grounding member, Combined nut. G. A. Tinnerman. 2,432,492; Dec. 9.
- Fastener and installation therefor, Rotary. F. E. Johnson. 2,422,304; June 17.
- Fastener-applying implement. A. H. Maynard. 2,420,258; May 6.
- Fastener attaching unit, Shiftable rotary operative. F. E. Johnson. 2,420,042; May 6.
- Fastener device and installation of the same, Rotary operative. H. J. Murphy. Re. 22,847; Feb. 25.
- Fastener device, Rope. G. J. Houston. 2,418,885; Apr. 15.
- Fastener for adjoining sheets or plates. W. Jung. 2,421,204; May 27.
- Fastener receptacle. G. Cannova. 2,420,733; May 20.
- Fastener for closures. M. Dzurinda. 2,428,207; Sept. 30.
- Fastener setting device, Plier type. R. E. Peterson. 2,427,873; Sept. 23.
- Fastener stud, Rotary operative. W. H. Churchill. 2,422,289; June 17.
- Fastener with aligning tongues, Hasp. A. J. Komenak. 2,416,631; Feb. 25.
- Fasteners, Expanding hollow. R. C. Wolfe. 2,421,769; June 10.
- Fasteners, Manufacture of sliding clasp. H. R. Fruengel. 2,421,323; May 27.
- Fastening apparatus. W. E. De Wald. 2,425,031; Aug. 5.
- Fastening device. W. Dzus. 2,424,603; July 29.
- Fastening device. L. H. Flora and C. A. Kelley. 2,430,809; Nov. 11.
- Fastening device. L. E. Harding. 2,414,870; Jan. 28.
- Fastening device. J. N. M. Howells. 2,430,294; Nov. 4.
- Fastening device. D. B. Hull. 2,418,410; Apr. 1.
- Fastening device. M. P. McClain. 2,422,841; June 24.
- Fastening device. O. J. Pouppich. 2,414,272; Jan. 11.
- Fastening device. A. R. Stone. 2,413,797; Jan. 7.
- Fastening device. G. A. Tinnerman. Re. 22,926; Oct. 7.
- Fastening device. G. A. Tinnerman. 2,414,986; Jan. 28.
- Fastening device. G. A. Tinnerman. 2,426,799; Sept. 2.
- Fastening device. G. A. Tinnerman. 2,430,548; Nov. 11.
- Fastening device, Cover. H. L. Meikelburg. 2,420,184; May 6.
- Fastening device for connecting two separable members. R. C. Marcell. 2,433,138; Dec. 23.



- Fastening device, Garment. E. Di Ianni. Re. 22,888; June 10.
- Fastening device, Spray head. F. Lantieri. 2,414,047; Jan. 7.
- Fastening devices, Applying. J. N. M. Howells. 2,430,293; Nov. 4.
- Fastening inserting machine. C. A. Robinson. 2,420,685; May 20.
- Fastening inserting machine. A. D. Willhauck. 2,420,290; May 13.
- Fastening inserting mechanism. C. A. Robinson and H. A. Imhof. 2,418,140; Apr. 1.
- Fastening means. W. Dzus. 2,424,604; July 29.
- Fastening means. R. L. Hallock. 2,421,201; May 27.
- Fastening means. R. W. Luce. 2,429,833; Oct. 28.
- Fastening means. T. B. Stetzer. 2,432,257; Dec. 9.
- Fastening means for paperboard boxes, cartons, and the like, Corner. J. D. Crary. 2,419,391; Apr. 22.
- Fastening means, Lifeboat. P. Full. 2,420,236; May 6.
- Fastening means, Method of installing. R. L. Hallock. 2,433,607; Dec. 30.
- Fat compositions, Stabilized. P. Gyorgy. 2,420,238; May 6.
- Fats and oils, Refining. H. C. Black and W. F. Bollens. 2,416,146; Feb. 18.
- Fatty materials, Rendering of. H. L. Keil. 2,423,102; July 1.
- Fatty materials, Solvent extraction of. E. N. Mortenson. 2,416,196; Feb. 18.
- Fatty materials, Stabilization of. L. O. Buxton and C. E. Dryden. 2,426,486; Aug. 26.
- Faucet. C. J. Dawson. 2,427,124; Sept. 9.
- Faucet. A. I. Weiss. 2,429,783; Oct. 28.
- Faucet attachment. G. H. Wotring. 2,422,060; June 10.
- Faucet for dispensing beverages, Mixing. R. Yuza. 2,420,850; May 20.
- Faucet marker, Mechanical. O. L. Davis and R. E. Rice. 2,431,793; Dec. 2.
- Faucet, Mixing and dispensing. H. H. Harr. 2,416,581-2; Feb. 25.
- Featherbone material and making same, Shaped. F. W. Chamberlain and A. J. Klute. 2,424,740; July 29.
- Feed and making. E. W. Coates. 2,431,371; Nov. 25.
- Feed-back device for electrical testing, Capacitative. S. D. Ellenberger. 2,428,700; Oct. 7.
- Feed control, Hopper. J. H. Nelson. 2,430,407; Nov. 4.
- Feed device, Starting rod. H. G. Hughey. 2,433,514; Dec. 30.
- Feed head, Automatic. C. E. Broders. 2,426,386; Aug. 26.
- Feed hopper. H. E. Korum. 2,423,192; July 1.
- Feed mechanism. M. Brustowsky. 2,415,233; Feb. 4.
- Feed mechanism, Film. T. G. Frederick. 2,415,737; Feb. 11.
- Feed mechanism for manifolding machines, Ribbon. R. W. Ritzert. 2,419,036; Apr. 15.
- Feed mechanism for manifolding machines, Ribbon. R. W. Ritzert. 2,419,369; Apr. 22.
- Feed mechanism for planers, Work-started. A. A. Kvalheim. 2,425,944; Aug. 19.
- Feed mechanism for stapling machines. C. M. Lindstrom. 2,429,269; Oct. 21.
- Feed mechanism for writing machines, Front. W. A. Anderson. 2,425,451; Aug. 12.
- Feed mechanism, Orbital lathe. W. F. Groene. 2,421,147; May 27.
- Feed reverse and stitch regulating attachment for sewing machines. M. Ingwer. 2,426,506; Aug. 26.
- Feed section for conveyers, Unitary casing. R. F. Bergmann and A. K. Sjolander. 2,428,774; Oct. 14.
- Feed to disintegrating mill for insulation production, Proportioning system of ingredient. P. J. Soulen. 2,428,100; Sept. 30.
- Feed unit for grinders, Compartmented safety type. O. J. Feight. 2,426,346; Aug. 26.
- Feed-water regulator. B. A. Corke. 2,432,965; Dec. 16.
- Feeder: See—
- Apron type feeder. Material feeder.
- Bird feeder. Orienting work feeder.
- Boiler water feeder. Paper feeder.
- Cap feeder. Poultry feeder.
- Chick feeder. Rabbit feeder.
- Fillet feeder.
- Feeder and exerciser. C. Dowling. 2,416,825; Mar. 4.
- Feeder and orienter, Cartridge. J. H. Woodberry and F. W. Hoewischer. 2,419,242; Apr. 22.
- Feeder and transfer mechanism, Automatic. F. Francona. 2,430,605; Nov. 11.
- Feeder blades, Auxiliary. S. D. Russell. 2,430,082; Nov. 4.
- Feeder from tender or hopper. E. C. Webb. 2,422,941; June 24.
- Feeders for vlners. H. P. Taylor. 2,421,815; June 10.
- Feeding and holding apparatus, Work. E. A. F. Redmer. 2,415,037; Jan. 28.
- Feeding and orienting apparatus, Cherry. W. W. Kelly. 2,428,370; Oct. 7.
- Feeding and orienting apparatus, Fruit. B. C. Coons. 2,429,991; Nov. 4.
- Feeding and rotating apparatus, Work. F. G. Connor, E. K. Benson, and L. C. Collyer. 2,429,201; Oct. 21.
- Feeding and stripping device, Tack. J. Sabatier. 2,431,831; Dec. 2.
- Feeding device. F. L. Green. 2,426,200; Aug. 26.
- Feeding device. H. E. Korum. 2,421,124; May 27.
- Feeding device actuated by fluid in a conduct, Proportional reagent. H. W. Morris. 2,417,372; Mar. 11.
- Feeding device, Cap. I. H. Miller. 2,423,333; July 1.
- Feeding device, Egg. G. F. Hudson and L. L. Campbell. 2,417,823; Mar. 25.
- Feeding device for animals. J. Frankel. 2,416,520; Feb. 25.
- Feeding device for fruit peeling machines. B. C. Coons. 2,431,310; Nov. 25.
- Feeding device, Pin type. A. W. Metzner. 2,414,478; Jan. 21.
- Feeding device, Record. W. A. Ayres. 2,424,073; July 15.
- Feeding machine having means responsive to weight of material already discharged from automatically movable hoppers, Dry. G. D. Alvord. 2,429,864; Oct. 28.
- Feeding means for pear peeling machines. G. A. Dunn. 2,429,346; Oct. 21.
- Feeding mechanism, Cartridge. W. M. Burgess. 2,415,413; Feb. 11.
- Feeding mechanism for automatic guns. D. W. Molins. 2,431,955; Dec. 2.
- Feeding mechanism for photocopy machines, Paper. E. R. Sabel and F. I. Galbrecht. 2,430,687; Nov. 11.
- Feeding mechanism for punching, stamping, and cutting machines, Stock. J. Haller. 2,428,493; Oct. 7.
- Feeding mechanism, Fuel. D. M. Palm. 2,414,209; Jan. 14.
- Feeding mechanism, Fuel. W. M. Fulton. 2,426,347; Aug. 26.
- Feeding mechanism, Record card. G. F. Daly and C. D. Lake. 2,415,279; Feb. 4.
- Feeding mechanism, Web. L. B. Eaton and R. W. Vergobbi. 2,430,281; Nov. 4.
- Feeler controlled filling replenishing mechanism. S. J. Geddings. 2,420,473; May 13.
- Felt and making same, Dyed composite. G. M. Rickus, S. G. Hoffman, and B. H. Archer. 2,429,073; Oct. 14.
- Felt, Papermaker's. Z. J. Chagnon. 2,423,828; July 15.
- Fence controller, Electric. K. W. McCrory. 2,423,990; July 15.
- Fender construction. G. A. Lyon. 2,421,634; June 3.
- Fender construction. L. B. Rivard and H. C. Kroepel. 2,417,324; Mar. 11.
- Fender, Cultivator. C. L. Hill. 2,417,597; Mar. 18.
- Fender device for heated pots. O. E. Armstrong. 2,423,219; July 1.
- Fender for ships, piers, and the like. C. F. Schwall, Jr. 2,424,635; July 29.
- Fender or cushion. N. L. Marchal, Sr. 2,433,569; Dec. 30.
- Fender pile. R. G. Peterson. 2,420,677; May 20.
- Fermentation process. C. Weizmann. 2,417,801; Mar. 18.
- Ferric orthophosphate, Production of. M. L. Nielsen. 2,414,974; Jan. 28.
- Ferromagnetic flakes in paint films, Orienting. B. C. Pratt and P. L. Salzberg. 2,418,479; Apr. 8.
- Ferrosilicon-magnetite as heavy media in separation of ores. L. J. Erck. 2,430,762; Nov. 11.
- Ferrosilicon, Producing. P. H. Royster. 2,420,564; May 13.
- Ferrous alloy. A. T. Cape and C. V. Foerster. 2,422,948-9; June 24.
- Ferrous metal by self-quenching, Surface hardening of. G. H. Brown. 2,424,794; July 29.
- Ferrule for electric stud welding, Vented molding. T. Nelson. 2,416,204; Feb. 18.
- Ferrule for vertical tube heat exchangers, Water distributing. E. Edmonds. 2,424,441; July 22.
- Ferrules, Attaching. G. N. Sery. 2,429,076; Oct. 14.
- Fertilizers containing insoluble nitrogen, Producing. L. V. Rohner and A. P. Wood. 2,415,705; Feb. 11.
- Festoon ring bracket. H. F. Higgins. 2,431,934; Dec. 6.
- Fiber, Asbestos spinning. L. C. Pharo. 2,422,980; June 24.
- Fiber-cement composition product, Molded. F. W. Smith, H. W. Greider, and L. K. Becker. 2,421,721; June 3.
- Fiber container and making the same. E. F. Hulbert. 2,415,173; Feb. 4.
- Fiber, Free fall. I. V. Hitt. 2,416,390; Feb. 25.
- Fiber in to yarn, Manufacturing long. S. E. Thomas and W. R. Guthrie. 2,418,995; Apr. 15.
- Fiber, Method and system of conditioning. J. Blewett. 2,421,477; June 3.
- Fiber processing apparatus. H. S. Messing and C. L. Durkee. 2,425,335; Aug. 12.
- Fiber product, Colored glass. W. L. Trowbridge. 2,428,302; Sept. 30.
- Fiber yarns and tows, Manufacture of staple. J. A. Truitt. 2,432,355; Dec. 9.
- Fibers and foils, Manufacture of. J. Amende and W. Ender. 2,416,890; Mar. 4.
- Fibers, Antishrinking treatment of animal. F. M. Stevenson and J. L. Raynes. 2,429,082; Oct. 14.
- Fibers from long fine fibers, Separating short coarse. R. A. Fairbairn. 2,420,036; May 6.
- Fibers, Method and apparatus for producing crimped staple. F. W. Koster and A. Bruenner. 2,418,125; Apr. 1.
- Fibers, Method and apparatus for separating. R. A. Fairbairn. 2,420,033; May 6.



- Fibers, Method and apparatus for separating. R. A. Fairbairn. 2,420,035; May 6.
- Fibers, Method of and apparatus for parallelizing textile. R. A. Fairbairn. 2,420,034; May 6.
- Fibers, Process and apparatus for producing staple. J. L. Lohrke. 2,419,320; Apr. 22.
- Fibers, Sericeous. T. C. Whitner. 2,417,388; Mar. 11.
- Fibers to rubber, Adhering. J. Compton and M. W. Wilson. 2,429,397; Oct. 21.
- Fibers, Treating jute. R. Wallach. 2,416,272; Feb. 18.
- Fibers, Treatment of sericeous. T. C. Whitner. 2,417,389; Mar. 11.
- Fibre article, Molded. M. P. Chaplin. 2,423,756; July 8.
- Fibre container. H. C. Brown. 2,416,372; Feb. 25.
- Fibre container. A. L. Hamilton and R. L. Palmer. 2,427,138; Sept. 9.
- Fibre, Hardening protein. F. C. Atwood. 2,428,603; Oct. 7.
- Fibrous and textile materials, Dressing. L. Lilienfeld. 2,422,572; June 17.
- Fibrous laminate and making same. K. L. Edgar, F. W. Staveland, and C. K. Novotny. 2,424,923; July 29.
- Fibrous material, Bleaching. R. P. Hill. 2,431,478; Nov. 25.
- Fibrous material, Coated. P. M. Snyder. 2,424,638; July 29.
- Fibrous material, Printed and coated. J. B. Butler. 2,430,386; Nov. 4.
- Fibrous materials, Treating. C. S. Francis, Jr. 2,430,868; Nov. 18.
- Fibrous plastic articles, Selective impregnation of accreted. S. H. A. Young. 2,417,851; Mar. 25.
- Fibrous sheet material for the electrolytic formation of azo dye image records thereon. M. Solomon. 2,433,632; Dec. 30.
- Fibrous surfaces, Coating. C. W. Wilson. 2,414,251; Jan. 14.
- Fibrous surfaces, Decoration. H. Freiberg. 2,416,521; Feb. 25.
- Fid for splicing rope. V. Adrias, II. 2,423,673; July 8.
- Fifth wheel. G. and C. Den Besten. 2,426,002; Aug. 19.
- Figs, Processing. W. F. Elliott. 2,421,489; June 3.
- Figure, Animated. L. E. Harding. 2,427,210; Sept. 9.
- Figure, Ornamental and useful unique. S. Sabaneff. 2,431,621; Nov. 25.
- Filament structure and assembling the same. C. McK. Wheeler. 2,414,501; Jan. 21.
- Filament structure for electrical discharge devices. J. W. Shehan. 2,422,141; June 10.
- Filament supporting structure for incandescent lamps. P. O. Cartun. 2,425,864-5; Aug. 19.
- Filamentary materials, Treating twisted. H. B. Kline and A. H. Burkholder. 2,421,334-6; May 27.
- Filaments and fabrics from fluids, Production of. F. W. Manning. 2,433,000; Dec. 23.
- Filaments and products made therefrom, Finishing plastic. G. H. Wandel and T. H. Rider. 2,426,328; Aug. 26.
- Filaments, Artificial. W. A. Sisson and W. L. Webb. 2,428,046; Sept. 30.
- Filaments, Cold drawing tapered. R. T. Fields. 2,423,182; July 1.
- Filaments, etc., derived from synthetic linear polyamides, Modification of. D. McCreath. 2,425,334; Aug. 12.
- Filaments, films, and like thin materials having a protein basis, Improving the extensibility and strength of hardened artificial. R. H. K. Thomson. 2,421,302; May 27.
- Filaments into spinnable slivers, Method and apparatus for converting continuous. W. H. Furness. 2,427,955; Sept. 23.
- Filaments, Manufacture of tapered. J. Alfthan and R. T. Fields. 2,418,492; Apr. 8.
- Filaments, Preparation of. J. E. Bludworth and C. Hutson. 2,425,782; Aug. 19.
- File fastener. R. E. Gooley. 2,432,409; Dec. 9.
- File, Film. W. N. de Sherbinin. 2,432,515; Dec. 16.
- File or index label holder. L. R. Addington. 2,432,493; Dec. 16.
- Filing cabinet. T. J. Salsman and J. W. Paxton. 2,420,015; May 6.
- Filing device. M. Weil. 2,415,054; Jan. 28.
- Filing equipment, Card. G. C. Bruen. Re. 22,850; Mar. 11.
- Filing equipment, Card. G. C. Bruen. 2,424,144; July 15.
- Filing guide, Handsaw. J. H. Speed. 2,421,657; June 3.
- Filler cap. A. L. Minella, Jr. 2,416,637; Feb. 25.
- Filler cap assembly, Self-closing. J. R. Snyder. 2,414,909; Jan. 28.
- Filling apparatus. J. MacManus. 2,414,235; Jan. 14.
- Filling device, Fountain pen. G. W. Oakes. 2,424,896; July 29.
- Filling device with receptacle operated outlet valve. J. Sanchis. Re. 22,837; Jan. 28.
- Filling for bedding, Manufacture of. I. Rubinstein. 2,419,732; Apr. 29.
- Filling machine. F. J. Cozzoli. 2,415,419; Feb. 11.
- Filling machine. R. E. J. Nordquist. 2,415,109; Feb. 4.
- Filling machine, Prevacuumizing. J. E. Weaver. 2,428,598; Oct. 7.
- Filing machine, Saw. H. A. Hendrickson, Jr. 2,432,420; Dec. 9.
- Film, Achromatic light reflecting and transmitting. G. L. Dimmick. 2,420,168; May 6.
- Film actuating mechanism, Motion-Picture. O. R. Nemeth. 2,427,568; Sept. 16.
- Film and preparation, Lubricated photographic. J. Russell and R. C. Houck. 2,430,585; Nov. 11.
- Film and process, Flameproofed. W. A. Hoffman. 2,422,730; June 24.
- Film, Antistatic photographic. F. W. H. Mueller. 2,420,610-11; May 13.
- Film clip. G. A. Drucker. 2,428,558; Oct. 7.
- Film container reel. J. Mihalyi. 2,422,032; June 10.
- Film developing apparatus, Photographic. S. J. Pask. 2,419,853; Apr. 29.
- Film driving apparatus. R. W. Benfer. 2,415,406; Feb. 11.
- Film driving apparatus. C. C. Davis. 2,429,995; Nov. 4.
- Film driving mechanism. A. G. Zimmerman. 2,416,606; Feb. 25.
- Film feeding and controlling means. C. H. Jacobson. 2,431,254; Nov. 18.
- Film, Flexible reflex reflecting. M. H. Phillippi. 2,422,256; June 17.
- Film gate. O. R. Nemeth. 2,427,327; Sept. 9.
- Film guide for cameras. F. E. Biddle. 2,423,925; July 15.
- Film hanger. H. M. Dye and R. B. Maddock. 2,425,603; Aug. 12.
- Film hanger. H. S. Wolf. 2,429,499; Oct. 21.
- Film holder. H. C. Noe. 2,414,481; Jan. 21.
- Film holder. L. M. Waldorf. 2,431,217; Nov. 18.
- Film holder. F. P. Willcox. 2,431,356; Nov. 25.
- Film identifier, Dental x-ray. F. J. Stadler. 2,426,286; Aug. 26.
- Film, Making adhesive. O. E. Backman. 2,433,680; Dec. 30.
- Film mechanism, Power-driven intermittent strip. O. R. Nemeth. 2,425,704; Aug. 12.
- Film moving mechanism. G. Laude and L. E. Belger. 2,425,814; Aug. 19.
- Film, Polyvinyl alcohol. M. V. Noble. 2,419,281; Apr. 22.
- Film processing clamp. C. B. Kamiss. 2,429,358; Oct. 21.
- Film processor. V. E. Pratt and G. F. Gray. 2,424,052; July 15.
- Film, Production of shrinkproof. D. E. Drew. 2,431,738; Dec. 2.
- Film protector. T. S. Kulka. 2,425,100; Aug. 5.
- Film scratching in motion-picture apparatus, Preventing. J. M. Fort. 2,427,773; Sept. 23.
- Film selecting mechanism. F. H. Osborne. 2,416,210; Feb. 18.
- Film slide projection apparatus. C. C. Pierce, Jr. 2,424,945; July 29.
- Film splice. H. C. Foster. 2,433,446; Dec. 30.
- Film, Stretching and laminating. F. J. Young. 2,429,177; Oct. 14.
- Film stripping. G. F. Rackett. 2,415,442; Feb. 11.
- Film threading mechanism, Camera. F. E. Biddle and C. O. Rogne. Jr. 2,428,349; Oct. 7.
- Films from ethylene polymers, Obtaining clear. H. G. Ingersoll. 2,431,042; Nov. 18.
- Films, Hardening metallic. G. A. Meyer. 2,424,043; July 15.
- Films, Making clay. D. W. Light. 2,425,626; Aug. 12.
- Films of material, Depositing. R. M. Rice. 2,420,724; May 20.
- Films on dental stone, Composition and method for forming separating. F. A. Slack, Jr. 2,432,688; Dec. 16.
- Filter. See—
- Continuous rotary drum filter. Nose filter. Oil filter. Gasoline filter. Rotary filter. Ion filter. Tubular detachable filter. Laminated optical filter. Wave filter. Milk filter.
- Filter. J. Ferrante. 2,425,235; Aug. 5.
- Filter. W. Kasten. 2,413,769; Jan. 7.
- Filter. W. Kasten. 2,421,705; June 3.
- Filter. W. B. Klein. 2,426,618; Sept. 2.
- Filter. T. A. La Brecque. 2,429,321; Oct. 21.
- Filter. W. J. Newman. 2,413,991; Jan. 7.
- Filter. C. G. Vokes. 2,422,647; June 17.
- Filter. C. G. Vokes. 2,425,139; Aug. 5.
- Filter and conditioner, Oil. F. H. Griffith. 2,432,475; Dec. 9.
- Filter and muffler, Combined air. P. G. Tabbert. 2,419,664; Apr. 29.
- Filter and relief valve, Combined liquid-washed. C. J. Glanzer. 2,427,525; Sept. 16.
- Filter cartridge package. R. H. Card. 2,423,224; July 1.
- Filter cell, Air. V. Dahlman. 2,415,579; Feb. 11.
- Filter composition, Ultra-violet. R. Brown. 2,418,695; Apr. 8.
- Filter comprising a revolvable drum containing a mass of loose filter material. M. E. Shandor and R. Donath. 2,418,989; Apr. 15.
- Filter comprising a sediment trap and drain outlet. S. Juhasz. 2,424,932; July 29.
- Filter construction. S. W. Briggs. 2,420,414; May 13.
- Filter device. L. L. Dollinger. 2,421,776; June 10.
- Filter device for antenna systems. E. V. Amy and J. G. Aceves. 2,422,458; June 17.
- Filter element. G. H. Judkins. 2,427,862; Sept. 23.
- Filter element. P. F. McDermott. 2,426,405; Aug. 26.



- Filter element, Porous metallic. E. W. Reinsch, D. W. DeBra, and T. W. Kunzog. 2,430,078; Nov. 4.
- Filter elements, Supporting and carrying. E. A. Koenig. 2,417,000; Mar. 4.
- Filter for carburetors, Air. N. A. Hallwood. 2,420,822; May 20.
- Filter for coffee percolator, Folding cloth. C. Weinberg. 2,426,720; Sept. 2.
- Filter material and forming same, Calendered. R. A. Behlen. 2,423,547; July 8.
- Filter pack and its manufacture. W. Kasten. 2,421,704; June 3.
- Filter press. L. S. Barnett. 2,418,153; Apr. 1.
- Filter system. E. Labin. 2,418,127; Apr. 1.
- Filter system, Rectifier. S. Frankel. 2,418,114; Apr. 1.
- Filter transparent to infrared radiation and opaque to visible light. R. G. Shepherd, Jr., and C. D. West. 2,418,605; Apr. 8.
- Filter units, Forming parallel glass fiber. J. A. Grant. 2,433,271; Dec. 23.
- Filter with temperature control means. F. A. De Puydt. 2,428,486; Oct. 7.
- Filtering apparatus. F. B. Shepard. 2,418,604; Apr. 8.
- Filtering device. F. A. Conterman. 2,413,954; Jan. 7.
- Filtering device. C. G. Vokes and A. A. Smith. 2,423,741; July 8.
- Filters, Precoating. C. H. Kollenberg and N. P. Peet. 2,423,780; July 8.
- Fin assembly, Collapsible. H. C. Wolf. 2,414,844; Jan. 28.
- Fin, Heat transfer. G. N. Eskra. 2,430,631; Nov. 11.
- Fin, Heat transfer. L. H. Cook. 2,428,145; Sept. 30.
- Fin, Laminated heat-exchange. R. G. Vanderweil. 2,426,536; Aug. 26.
- Finned tube. J. W. Brown, Jr. 2,418,619; Apr. 8.
- Fin tube. A. Y. Gunter. 2,424,612; July 29.
- Finned tubing, Method and apparatus for making. E. Bruegger. 2,430,210; Nov. 4.
- Fins to tubular members, Forming and applying cooling. W. B. Bronander. 2,426,920; Sept. 2.
- Finder and punch, Center. L. P. Brown. 2,420,350; May 13.
- Fine wire strain gauge. A. A. Burr. 2,415,082; Feb. 4.
- Finely divided material, Densifying. C. Kaufmann and A. H. Andersen. 2,415,355; Feb. 4.
- Finger board. J. O. Bennett. 2,423,169; July 1.
- Finger grip expandable garment hanger. L. B. Harris and V. R. Pascale. 2,417,684; Mar. 18.
- Finger operated rotatable tool. D. B. Hoover. 2,418,638; Apr. 8.
- Finger ring. C. E. Dyer. 2,431,232; Nov. 18.
- Finish remover composition. L. E. Kuentzel. 2,433,517; Dec. 30.
- Finisher, Trouser top. H. W. Bowen. 2,428,484; Oct. 7.
- Fire alarm. J. W. Tousignant. 2,421,915; June 10.
- Fire alarm, Fusible. F. W. Jackson and H. M. Nacey. 2,420,481; May 13.
- Fire alarm system. W. M. Willett. 2,433,080; Dec. 23.
- Firearm chamber loading indicator. W. M. Parker. 2,416,712; Mar. 4.
- Firearm cooling system, Thermostatically controlled. P. R. De Permentier. 2,428,359; Oct. 7.
- Firearm safety. F. W. Sampson and G. J. Hyde. 2,428,683; Oct. 7.
- Firearm sight. W. L. Swartz. 2,417,716; Mar. 18.
- Firebox bearer or expansion pad. A. J. Taylor. 2,415,770; Feb. 11.
- Firebrick, Dry press insulating. G. W. Charles. 2,433,429-30; Dec. 30.
- Fire control means for aircraft gun mounts. M. F. Ketay. 2,429,467; Oct. 21.
- Fire control or like apparatus for similar purposes. M. K. Ingoldby and J. H. Abbink-Spink. 2,422,197; June 17.
- Fire controlling mechanism for automatic firearms. G. W. Patchett. 2,432,486; Dec. 9.
- Fire detecting cable. D. R. Wheeler. 2,423,537; July 8.
- Fire escape. H. R. H. Ludelfs. 2,419,359; Apr. 22.
- Fire escape. J. Needre. 2,424,365; July 22.
- Fire extinguisher. C. H. Barnes. 2,425,715; Aug. 19.
- Fire extinguisher. E. Jones and J. Flanders. 2,426,024; Aug. 19.
- Fire extinguisher, Dry powder. M. W., Jr., and I. K. Keefe. 2,430,470; Nov. 11.
- Fire extinguisher signal. C. B. Goodwin. 2,430,927; Nov. 18.
- Fire extinguishing apparatus, Airplane mounted. C. B. Harp. 2,426,771; Sept. 2.
- Fire extinguishing device. C. R. Morton. 2,417,374; Mar. 11.
- Fire extinguishing system. F. B. Allen. 2,425,778; Aug. 19.
- Fire extinguishing system. S. T. Van Houten. 2,421,303; May 27.
- Fire-extinguishing unit. H. C. Grant, Jr. 2,418,468; Apr. 8.
- Fire film from heated silver-copper alloys, Removing. M. Navaretta. 2,420,262; May 6.
- Fire finding switch. C. F. Callahan. 2,431,443; Nov. 25.
- Fire-foam producing apparatus. J. N. Hunter. 2,414,260; Jan. 14.
- Fire-foam producing apparatus. A. F. Ratzer. 2,423,618; July 8.
- Fire hydrant, Portable. A. H. Benson. 2,418,808; Apr. 15.
- Fire nozzle control clamp. F. J. Doyle. 2,419,393; Apr. 22.
- Fireplace construction together with a heat distributor. L. L. Dollinger. 2,429,748; Oct. 28.
- Fireplace installation, Open. J. S. Hales, E. Murphy, and L. MacDonald. 2,423,235; July 1.
- Fire protective device in film projectors. S. P. O. Sundgren. 2,426,324; Aug. 26.
- Firetray assembly support. H. Howe. 2,425,036; Aug. 5.
- Fires, Method and apparatus for extinguishing. H. V. Williamson. 2,414,683; Jan. 21.
- Firing control mechanism, Rocket. A. L. Lambert and W. H. D'Ardenne. 2,421,893; June 10.
- Firing device, Mine. J. B. Glemmon and R. C. Duncan. 2,413,705; Jan. 7.
- Firing mechanism. S. Gilbert. 2,419,349; Apr. 22.
- Firing mechanism. A. Hubalek. 2,422,900; June 24.
- Firing mechanism for firearms. C. H. Barnes. 2,425,412; Aug. 12.
- Firing mechanism for signal pistols. J. W. Van Karner. 2,433,309; Dec. 23.
- Firing platform for artillery. A. P. Firing. 2,425,783; Aug. 19.
- Fish bait or lure, Artificial. J. S. Kuslich. 2,416,834; Mar. 4.
- Fish dressing apparatus. K. Kurzbis. 2,433,460; Dec. 30.
- Fish filleting machine. C. M. Savrda. 2,424,057; July 15.
- Fish filleting machine. C. M. Savrda. 2,431,893; Dec. 2.
- Fish heading machine. F. P. Brown. 2,423,174; July 1.
- Fishhook. G. A. Zuravsky. 2,425,587; Aug. 12.
- Fishhook guard, Weedless. T. S. Burns. 2,424,599; July 29.
- Fishhook mounting. D. H. Murph. 2,431,821; Dec. 2.
- Fishhook retaining clip. G. A. Adair. 2,419,753; Apr. 29.
- Fishline reel. M. McCreary. 2,429,637; Oct. 28.
- Fish lure. H. G. Allen. 2,423,431; July 8.
- Fish lure. O. A. Fiskaali. 2,427,267; Sept. 9.
- Fish lure. P. Slough. 2,419,295; Apr. 22.
- Fish lure. J. L. Spenard. 2,420,451; May 13.
- Fish lure. F. J. Stevermer. 2,429,568; Oct. 21.
- Fish lure. T. W. Urban. 2,425,658; Aug. 12.
- Fish machine. A. L. Christiansen. 2,431,465; Nov. 25.
- Fish scaring device. A. Nelson. 2,428,677; Oct. 7.
- Fish scrubbing machine. W. H. Rennie. 2,416,594; Feb. 25.
- Fish stringer. L. Cooper. 2,427,715; Sept. 23.
- Fish stringer. R. E. Davy. 2,426,298; Aug. 26.
- Fish stringer. T. Hanson. 2,424,658; July 29.
- Fishing device. A. B. Smith. 2,414,907; Jan. 28.
- Fishing float, Electric. G. H. Bidwell. 2,425,590; Aug. 12.
- Fishing lure. C. E. Hiltabidel and D. M. Yoder. 2,415,742; Feb. 11.
- Fishing lure. H. D. Pelham. 2,424,706; July 29.
- Fishing lure. C. Safford. 2,419,037; Apr. 15.
- Fishing lure. O. Tallaksen. 2,414,425; Jan. 14.
- Fishing lure. I. J. Walker, R. E. Wham, and C. S. Turbeville. 2,425,272; Aug. 5.
- Fishing lure, Artificial. A. J. Dory. 2,430,111; Nov. 4.
- Fishing pole holder. J. Hanke. 2,427,600; Sept. 16.
- Fishing pole holder. C. A. Miller. 2,429,288; Oct. 21.
- Fishing reel. L. Cooper and R. S. Tait. 2,428,908; Oct. 14.
- Fishing reel. O. S. Severson. 2,425,492; Aug. 12.
- Fishing reel mechanism. R. and R. B. Bland. 2,417,732; Mar. 18.
- Fishing rod. R. H. Beyer. 2,424,430; July 22.
- Fishing rod handle. W. I. Treadway and M. E. Linxwiler. 2,431,972; Dec. 2.
- Fishing rod holder. E. J. Gosh. 2,423,933; July 15.
- Fishing rod holder. G. L. Hamre. 2,430,112; Nov. 4.
- Fitting. J. N. Paquin. 2,420,617; May 13.
- Fitting for luggage. C. Schuhmann. 2,415,536; Feb. 11.
- Fitting, Pipe. T. G. Griffin. 2,419,069; Apr. 15.
- 5-amino-1,3-dioxanes, Substituted. G. H. Morey. 2,415,021; Jan. 28.
- 5-diethylamino-2-pentanone, Preparation of. S. E. Forman. 2,419,259; Apr. 22.
- 5-keto-2,4,6,8-tetrahydroimidazole [4,5-c] thiophenes and preparing same. S. Bernstein, B. R. Baker, and S. R. Safir. 2,418,923; Apr. 15.
- 5-nitro-2-furaldehyde 5'-(B-hydroxyethyl semioxamazone. W. B. Stillman and A. E. Scott. 2,416,237; Feb. 18.
- 5-nitro-2-furaldehyde semioxamazone. W. B. Stillman and A. B. Scott. 2,416,238; Feb. 18.
- 5-nitro-2-furaldehyde thiosemicarbazone. W. B. Stillman and A. B. Scott. 2,416,239; Feb. 18.
- 5-nitro-2-(6-hydroxyacetofurone) semicarbazone. W. B. Stillman and A. B. Scott. 2,416,235; Feb. 18.
- Fixation of finely divided substances. H. C. Olpin, S. A. Gibson, and W. C. McKnight. 2,424,284; July 22.
- Fixture. W. C. Williams. 2,423,164; July 1.
- Fixture and accessory therefor, Plumbing. E. Dellon. 2,429,455; Oct. 21.
- Fixture and welding clamp, Internal alignment. A. L. Forbes, Jr. 2,429,053; Oct. 14.
- Fixture, Article assembling. C. H. Trimble. 2,421,973; June 10.
- Fixture, Article holding. C. H. Trimble. 2,417,144; Mar. 11.
- Fixture, Chucking. E. J. Marasko. 2,418,082; Mar. 25.
- Fixture, Clothesline. F. C. Curtis. 2,426,924; Sept. 2.
- Fixture, Crystal indexing. W. P. Marshall. 2,416,703; Mar. 4.
- Fixture, Curtain and shade. J. Klara. 2,430,345; Nov. 4.



- Fixture, Curtain rod or drapery. A. A. Allen. 2,429,252; Oct. 21.  
 Fixture, Electric resistance welding. S. Malke. 2,424,892; July 29.  
 Fixture, Electroplating. M. Kaufman. 2,422,242; June 17.  
 Fixture, Fluorescent lamp. H. U. Schockett. 2,422,857; June 24.  
 Fixture, Fluorescent lighting. C. E. Barker. 2,431,656; Nov. 25.  
 Fixture, Fluorescent lighting. P. J. Parlato. 2,432,334; Dec. 9.  
 Fixture for drilling bowling balls. H. Hopkins. 2,428,669; Oct. 7.  
 Fixture for gaseous discharge lamps. R. F. De Merritt. 2,432,392; Dec. 9.  
 Fixture for lathe turning of angularly disposed surfaces. H. G. Hendrickson and V. J. Hagberg. 2,415,590; Feb. 11.  
 Fixture having a wear ring and a support ring, Filler. T. F. Knight. 2,420,668; May 20.  
 Fixture, Lathe. J. J. Overzat. 2,427,020; Sept. 9.  
 Fixture, Lead locating. W. Richter. 2,414,896; Jan. 28.  
 Fixture, Light. G. E. MacFadden. 2,416,633; Feb. 25.  
 Fixture, Lighting. H. B. Alderman. 2,427,084; Sept. 9.  
 Fixture, Lighting. J. Levy. 2,430,472; Nov. 11.  
 Fixture, Lighting. L. Margolis. 2,418,131; Apr. 1.  
 Fixture, Lighting. A. Willenbacher. 2,424,908; July 29.  
 Fixture, Locating and welding. E. Colbert. 2,431,732; Dec. 2.  
 Fixture, Sanding machine. G. R. Melick. 2,432,434; Dec. 9.  
 Fixture, Tap grinding. L. F. Southwick and R. R. Holt. 2,420,572; May 13.  
 Fixture, Toilet. A. C. Johnson. 2,431,330; Nov. 25.  
 Fixture, Venetian blind. F. E. Bretz, Jr., and P. F. Nardulli. 2,428,197; Sept. 30.  
 Fixture, Work or tool holding. C. Gustafson. 2,429,617; Oct. 28.  
 Flag. R. Ellis. 2,427,047; Sept. 9.  
 Flag, Conservation. J. R. Blackburn. 2,413,905; Jan. 7.  
 Flag for railway trains or the like, Signal. E. G. Leach. 2,417,367; Mar. 11.  
 Flame arrester. P. C. Jurs. 2,420,599; May 13.  
 Flame hardening gear teeth, Method of and apparatus for. F. McGuire, Jr. 2,425,751; Aug. 19.  
 Flameproofing of fabrics and composition therefor. L. C. Athy and P. C. Stuftt. 2,420,644; May 20.  
 Flame resistant fabric material. C. B. White. 2,427,997; Sept. 23.  
 Flame thrower, Portable. W. C. Graham. 2,417,981; Mar. 25.  
 Flange jack. M. M. Morgan. 2,420,438; May 13.  
 Flanges and the like, Heat-treating. A. O. Wood. 2,419,619; Apr. 29.  
 Flanging sheet metal, Method and apparatus for. H. H. Bruderlin. 2,422,883; June 24.  
 Flap for envelopes and the like, Closing. E. J. Malo. 2,420,963; May 20.  
 Flare, Projectile. C. H. Luby. 2,427,917; Sept. 23.  
 Flare releasing mechanism. W. H. Wilkes. 2,432,640; Dec. 16.  
 Flashing construction. M. G. Silverman. 2,430,830; Nov. 11.  
 Flashing machine, Automatic mount. P. H. Durst. 2,429,407; Oct. 21.  
 Flashlight. W. C. Crimmins. 2,418,759; Apr. 8.  
 Flashlight. W. C. Crimmins. 2,420,585; May 13.  
 Flashlight. W. M. Golder. 2,427,526; Sept. 16.  
 Flashlight. W. B. Miller. 2,427,017; Sept. 9.  
 Flashlight. L. G. Sherwood and C. E. Wohler. 2,420,152; May 6.  
 Flashlight. G. F. Wilkinson. 2,416,558; Feb. 25.  
 Flashlight. C. E. Wohler and L. G. Sherwood. 2,425,274; Aug. 5.  
 Flashlight, Multicolored electric. R. B. Thomas. 2,431,091; Nov. 18.  
 Flashlight, Portable. S. E. White. 2,427,890; Sept. 23.  
 Flashlight, Waterproof. R. G. Stigler and E. L. Baxter. 2,431,518; Nov. 25.  
 Flask, Dental. S. A. Leader. 2,420,545; May 13.  
 Flask filling apparatus. M. G. Clay. 2,422,290; June 17.  
 Flat-bed and cylinder-arm sewing machines, Convertible. S. Zonis. 2,424,872; July 29.  
 Flat glass, Method and apparatus for polishing. F. B. Waldron. 2,420,989; May 20.  
 Flatiron. F. F. Finlayson. 2,418,020; Mar. 25.  
 Flatiron, Electric. A. A. Johnson. 2,433,124; Dec. 23.  
 Flatiron, Electric. P. J. Kircher. 2,414,309; Jan. 14.  
 Flatiron having a retractable support. W. H. Tangeman and J. R. Campbell. 2,422,505; June 17.  
 Flatiron, Tilting electric. E. M. Schara. 2,422,856; June 24.  
 Flat members to bodies, Locking. T. Friedman. 2,431,238; Nov. 18.  
 Flat meter mounting. A. E. Hargett. 2,430,676 Nov. 11.  
 Flattening agent. L. Auer. 2,418,450; Apr. 8.  
 Flavanone glycosides, Recovery of. R. H. Higby. 2,421,061; May 27.  
 Flavoring composition. F. J. Zimmermann and M. Kayner. 2,429,907; Oct. 28.  
 Flexible arch support. D. Roles. 2,428,244; Sept. 30.  
 Flexible article cover. C. E. Gardner. 2,432,662; Dec. 16.  
 Flexible band jar wrench. H. F. Shick, Jr. 2,430,144; Nov. 4.  
 Flexible chain. W. F. Hess. 2,428,219; Sept. 30.  
 Flexible connector. W. G. Taylor and C. L. Baxter. 2,426,251; Aug. 26.  
 Flexible coupling. G. A. Dalton. 2,421,546; June 3.  
 Flexible coupling. L. T. Mart. 2,431,409; Nov. 25.  
 Flexible coupling. J. N. Wolfram. 2,422,158; June 10.  
 Flexible coupling. J. N. Wolfram. 2,423,745; July 8.  
 Flexible coupling. J. N. Wolfram. 2,425,662; Aug. 12.  
 Flexible drive coupling. E. N. Natkins. 2,417,436; Mar. 18.  
 Flexible duct coupling. W. R. Wiberg. 2,419,750; Apr. 29.  
 Flexible joint. G. W. Harvey. 2,417,250; Mar. 11.  
 Flexible joint. J. J. Hruska. 2,433,696; Dec. 30.  
 Flexible pipe. F. E. Swain. 2,424,863; July 29.  
 Flexible pocket receptacle. D. J. Broughton. 2,429,979; Nov. 4.  
 Flexible sealing joint. J. M. Crom. 2,433,652; Dec. 30.  
 Flexible shock absorbing power coupling. E. A. F. Presser. 2,418,315; Apr. 1.  
 Flexible tubes, Making. F. T. and R. E. Roberts. 2,430,081; Nov. 4.  
 Flight recording instrument. W. S. Redhed. 2,414,976; Jan. 28.  
 Float. P. Dunsheath. 2,415,487-9; Feb. 11.  
 Float. H. A. Macdonald. 2,415,490; Feb. 11.  
 Float, Fishing. H. E. Schenavar. 2,421,466; June 3.  
 Float, Fishing line. B. W. Jamerson. 2,421,068; May 27.  
 Float for fish lines. M. L. Phillips. 2,425,825; Aug. 19.  
 Float, Marine. S. S. Amato. 2,433,189; Dec. 23.  
 Float type water heater. W. M. McCaskell. 2,432,918; Dec. 16.  
 Float valve. C. J. Smith. 2,433,166; Dec. 23.  
 Float-valve assemblage. R. Mazzeo. 2,426,782; Sept. 2.  
 Float with propelling appliance, Bathing. P. E. Meyer. 2,430,360; Nov. 4.  
 Floating annular toothed gearing. B. G. W. Bartlett. 2,414,134; Jan. 14.  
 Floating house structure. C. V. Watson. 2,429,381; Oct. 21.  
 Floats, Fishing. J. L. Huston. 2,415,692; Feb. 11.  
 Flocked material, Making. J. Ferrante. 2,425,236; Aug. 5.  
 Flocking apparatus. D. Hester. 2,419,835; Apr. 29.  
 Floor and engine base, Movable combination derrick. W. B. Tobin. 2,420,803; May 20.  
 Floor covering and making the same, Punched felt. H. A. Reinhardt. 2,429,486; Oct. 21.  
 Floor covering and producing the same. J. W. Kemmler and E. R. Erb. 2,430,934; Nov. 18.  
 Floor covering, Making pile fabric. R. J. Jackson. 2,430,425; Nov. 4.  
 Floor surfacing machine. W. A. Anderson. 2,429,974; Nov. 4.  
 Flooring and other wood, Finishing. W. N. Belk. 2,431,225; Nov. 18.  
 Floral display, Artificial. P. H. Seibel. 2,432,632; Dec. 16.  
 Floral rack. C. J. White. 2,430,198; Nov. 4.  
 Flotation apparatus including recycling means, Multiple cell. S. E. Meyer. 2,419,497; Apr. 22.  
 Flotation of nonsulfide ores, Froth. G. Gutzelt. 2,414,199; Jan. 14.  
 Flour in bags, Compacting. H. Anderson. 2,419,330; Apr. 22.  
 Flour with carbon tetrachloride, Treatment of. B. D. Ingels. 2,433,612; Dec. 30.  
 Flow actuated switch. N. Brewer. 2,419,942; May 6.  
 Flow control means. W. S. Landon. 2,427,059; Sept. 9.  
 Flowmeter. C. E. Cox. 2,417,352; Mar. 11.  
 Flowmeter, Remote indicating. H. A. Williams. 2,422,762; June 24.  
 Flow of fluidized solids and liquids, Controlling the. B. J. Flock and C. G. Gerhold. 2,420,129; May 6.  
 Flow regulator. W. Baden. 2,423,633; July 8.  
 Flowers, Preserving cut. A. E. Arlington. 2,416,136; Feb. 18.  
 Flues or the like which conduct producer gas, Cleaning. A. Reiss. 2,423,157; July 1.  
 Fluid actuated brake. J. T. Dickson. 2,417,156; Mar. 11.  
 Fluid apparatus. A. R. Parilla and A. Peters. 2,428,809; Oct. 14.  
 Fluid base material and process, Well drilling. D. H. Larsen. 2,417,307; Mar. 11.  
 Fluid catalytic conversion, Method and apparatus for. E. M. Van Dornick. 2,429,247; Oct. 21.  
 Fluid compositions, Constant viscosity hydraulic. R. E. Burk and E. C. Hughes. 2,423,927; July 15.  
 Fluid conductance of earth layers, Determining. R. W. French, Jr. 2,429,577; Oct. 21.  
 Fluid control apparatus, Brake. J. H. Wellbrock. 2,419,977; May 6.  
 Fluid control valve. J. J. Slomer. 2,417,709; Mar. 18.  
 Fluid controlling valve. F. Sutton. 2,424,210; July 15.  
 Fluid, Cooling. D. L. Wright. 2,431,008; Nov. 18.  
 Fluid cooling apparatus. M. M. Lawler and P. F. Bahler. 2,416,760; Mar. 4.  
 Fluid cooling apparatus with controls therefor. E. C. Tanner. 2,432,546; Dec. 16.  
 Fluid coupling. E. V. Estill and W. L. Earle. 2,429,202; Oct. 21.



- Fluid coupling. B. A. Swennes. 2,421,860; May 27.  
 Fluid coupling. R. C. Zeidler. 2,428,134; Sept. 30.  
 Fluid coupling. R. C. Zeidler. 2,429,503; Oct. 21.  
 Fluid coupling automatic control valve. R. Chilton. 2,432,191; Dec. 9.  
 Fluid-damped mounting. L. F. Thiry. 2,417,096; Mar. 11.  
 Fluid-dispensing device of the gear type. C. A. Mann. 2,431,817; Dec. 2.  
 Fluid distributing apparatus. W. H. Phalor. 2,430,781; Nov. 11.  
 Fluid, Drilling. G. E. Cannon. 2,417,235; Mar. 11.  
 Fluid drive. J. Jandasek. 2,428,164; Sept. 30.  
 Fluid drive and automatic torque multiplier, Combination. C. R. Bacon. 2,421,675; June 3.  
 Fluid driven pump control. C. A. Schellens and A. L. Sherman. 2,425,958; Aug. 19.  
 Fluid extracting piston press. J. J. de la Roza, Sr. 2,427,446; Sept. 16.  
 Fluid, Fire extinguishing. M. O. Farris, J. M. O'Connor, and R. B. Gottschalk. 2,432,146; Dec. 9.  
 Fluid flow responsive device. T. A. Baker. 2,421,003; May 27.  
 Fluid fuel burner apparatus. J. Fletcher. 2,414,459; Jan. 21.  
 Fluid fuel internal-combustion air heater. H. J. D. McCollum. 2,433,618; Dec. 30.  
 Fluid, Low viscosity change. J. D. Morgan and R. E. Lowe. 2,426,407; Aug. 26.  
 Fluid meter. N. Brewer. 2,414,086; Jan. 14.  
 Fluid mixing device. S. L. Gamble. 2,424,654; July 29.  
 Fluid-modified mounting. L. F. Thiry. 2,421,585; June 3.  
 Fluid motor. F. M. Wetherill. 2,418,439; Apr. 1.  
 Fluid, Oil base drilling. F. M. Anderson. 2,430,039; Nov. 4.  
 Fluid operated clutch. F. E. Munschauer. 2,428,336; Sept. 30.  
 Fluid operated device. H. E. Page. 2,414,484; Jan. 21.  
 Fluid power wheel. J. D. Ault. 2,419,384; Apr. 22.  
 Fluid-pressure apparatus for fabricating laminated assemblies. J. Young. 2,425,450; Aug. 12.  
 Fluid pressure brake. E. E. Hewitt. 2,429,687; Oct. 28.  
 Fluid pressure brake apparatus. G. T. McClure. 2,424,480; July 22.  
 Fluid pressure brake for vehicles. T. H. Affleck. 2,426,660; Sept. 2.  
 Fluid pressure control mechanism. W. A. Eaton. 2,423,012; June 24.  
 Fluid pressure control mechanism. R. R. Stevens. 2,426,064; Aug. 19.  
 Fluid pressure control system. S. I. MacDuff. 2,420,890; May 20.  
 Fluid pressure control valve. R. L. Hall. 2,420,313; May 13.  
 Fluid-pressure controlled valve. R. H. Peterson. 2,417,212; Mar. 11.  
 Fluid pressure engine. A. H. Neuland. 2,421,846; Jun. 10.  
 Fluid pressure gauge. G. C. R. Birch. 2,427,249; Sept. 9.  
 Fluid pressure motor. J. E. Morton. 2,416,940; Mar. 4.  
 Fluid pressure operated valve. A. L. Parker. 2,426,900; Sept. 2.  
 Fluid pressure servomotor with follow-up device. C. W. Mott. 2,427,871; Sept. 23.  
 Fluid pressure system. W. F. Mohler. 2,427,616; Sept. 16.  
 Fluid pump. H. A. Hulsberg. 2,428,912; Oct. 14.  
 Fluid pump regulator. F. E. James. 2,426,737; Sept. 2.  
 Fluid reactants, Catalytic conversion of. C. H. Angell. 2,418,003; Mar. 25.  
 Fluid reactants, Conversion of. C. G. Gerhold. 2,414,373; Jan. 14.  
 Fluid seal unit. F. E. Payne. 2,426,047; Aug. 19.  
 Fluid storage apparatus. W. G. Laird. 2,424,471; July 22.  
 Fluid system. H. J. Kerr. 2,413,717; Jan. 7.  
 Fluid transfer apparatus. C. R. Hixson. 2,416,391; Feb. 25.  
 Fluid transmission mechanism. J. L. Landrum. 2,416,396; Feb. 25.  
 Fluid valve. J. E. Collins and C. K. Morton. 2,415,417; Feb. 11.  
 Fluidized systems, Operation of. W. V. Medlin. 2,421,212; May 27.  
 Fluids by simultaneous centrifugation and selective diffusion, Separation of. A. Bramley. 2,422,882; June 24.  
 Fluids, Conveying. A. H. Schutte. 2,421,968; June 10.  
 Fluids, Recovery of. E. N. Meakin. 2,415,600; Feb. 11.  
 Fluids, Treatment of well drilling. R. W. Hoeppe. 2,414,647; Jan. 21.  
 Fluids with cation active resins, Purification of. J. R. Dudley. 2,420,419; May 13.  
 Fluids with solid particles, Contacting. C. W. Tyson. 2,421,664; June 3.  
 Flume construction, Demountable. R. Houston. 2,430,018; Nov. 4.  
 Fluorene and its derivatives, Synthesis of. M. Orchin. 2,414,118; Jan. 14.  
 Fluorescent coatings, Production of. C. H. Bachman and V. J. Schaefer. 2,421,979; June 10.  
 Fluorescent electric discharge lamp. E. L. Mager. 2,419,902; Apr. 29.  
 Fluorescent fixture. K. L. Francis. 2,418,926; Apr. 15.  
 Fluorescent glow lamp. W. E. Leyshon. 2,421,571; June 3.  
 Fluorescent illumination. D. W. Abernathy. 2,422,280; June 17.  
 Fluorescent material. R. H. Clapp. 2,417,038; Mar. 4.  
 Fluorescent tubing, Manufacture of. R. D. Williams. 2,421,975; June 10.  
 Fluorinated compounds and pyrolytic preparing them. F. B. Downing, A. F. Benning, and R. C. McIlharness. 2,413,695; Jan. 7.  
 Fluorine, Production of. W. C. Schumb and A. J. Stevens. 2,422,590; June 17.  
 Fluorine, Removal of organic. F. E. Frey. 2,413,868; Jan. 7.  
 Fluoroacetamide, Preparing. J. C. Bacon. 2,416,607; Feb. 25.  
 Fluoro-butadiene polymers. L. F. Salisbury. 2,416,456; Feb. 25.  
 Fluoro-chloro compounds, Preparing. A. F. Benning and J. D. Park. 2,420,222; May 6.  
 Fluorohydrocarbon. F. B. Downing, A. F. Benning, and R. C. McIlharness. 2,413,696; Jan. 7.  
 Fluosulfonic acid, Manufacture of. R. Stephenson and W. E. Watson. 2,430,963; Nov. 18.  
 Flush tank valve. R. P. Wiley. 2,430,152; Nov. 4.  
 Flush-type door latch. W. R. Andrews. 2,416,889; Mar. 4.  
 Flush valve. J. J. Delany. 2,433,507; Dec. 30.  
 Flusher and air filter cleaner, Combination. E. W. Davis. 2,432,290; Dec. 9.  
 Flushing and filtering unit, Portable. D. Vawter. 2,425,848; Aug. 19.  
 Flushing tank inlet valve. A. A. Greenwald. 2,415,875; Feb. 18.  
 Flux valve. F. W. Meredith. 2,414,654; Jan. 21.  
 Fluxes, Soldering. H. Silman and W. Stein. 2,429,033; Oct. 14.  
 Flytrap. J. L. Stevens. 2,429,377; Oct. 21.  
 Flyer twisting machine. I. S. Roberts. 2,429,330; Oct. 21.  
 Flying machine. A. J. Flumedor. 2,428,794; Oct. 14.  
 Flying wing. R. E. Dowd. 2,432,297; Dec. 9.  
 Foam control in brown stock washing. F. W. Young. 2,431,009; Nov. 18.  
 Foam on paper stock, Suppressing. F. G. Rawling. 2,429,030; Oct. 14.  
 Foam prevention. S. D. Wells. 2,423,214; July 1.  
 Foam-producing substances from furfural employed in extractive distillation of hydrocarbons. G. Thodos and C. F. Weinaug. 2,414,402; Jan. 14.  
 Foaming in bottle-cleaning apparatus, Preventing. P. M. Kallusky. 2,420,600; May 13.  
 Foaming in steam boilers, Prevention of. P. G. Bird and A. L. Jacoby. 2,428,776; Oct. 14.  
 Foaming in steam boilers, Prevention of. A. L. Jacoby. 2,428,801; Oct. 14.  
 Foaming in steam boilers, Product and process for the prevention of. P. G. Bird. 2,428,775; Oct. 14.  
 Focus control for cathode-ray tubes, Automatic. P. F. Galella and J. A. Brustman. 2,430,331; Nov. 4.  
 Focusing lens mount. C. M. Lee. 2,432,479; Dec. 9.  
 Fog generator. W. J. Besler. 2,432,372; Dec. 9.  
 Fog generator. H. A. Roselund. 2,426,846; Sept. 2.  
 Fog, Precipitating. A. Vang. 2,414,495; Jan. 21.  
 Foil material, Production of. C. G. Munsters. 2,429,482; Oct. 21.  
 Foldable baby car. C. V. Johnson. 2,422,241; June 17.  
 Foldable baby carriage frame. F. J. Schultheis. 2,432,489; Dec. 9.  
 Foldable-bottom collapsible egg case. C. G. L. Montgomery. 2,413,774; Jan. 7.  
 Foldable camping chair. E. W. Sonner, Jr. 2,432,945; Dec. 16.  
 Foldable cardboard box. R. F. Smart. 2,424,716; July 29.  
 Foldable fiberboard egg case. K. C. Ferguson. 2,427,397; Sept. 16.  
 Foldable step. D. L. McFarland. 2,417,987; Mar. 25.  
 Folder, bill folder and pocket construction. H. M. Herben. 2,426,503; Aug. 26.  
 Folder, File. H. G. Meyer. 2,429,422; Oct. 21.  
 Folding display box. N. Rosenthal. 2,414,671; Jan. 21.  
 Folding garment hanger. F. A. Crowder. 2,418,870; Apr. 15.  
 Folding handle. F. S. Schade. 2,433,788; Dec. 30.  
 Folding music stand. M. H. Davis. 2,424,387; July 22.  
 Folding paperboard box. W. G. Palmer. 2,414,763; Jan. 21.  
 Folding pushcar or wheeled chair. R. C. Ford. 2,427,205; Sept. 9.  
 Folding rack. A. H. Anderson. 2,429,041; Oct. 14.  
 Folding reclining chair. O. G. Anderson. 2,431,670; Dec. 2.  
 Folding reclining chair. T. Heaton. 2,427,405; Sept. 16.  
 Folding table. F. B. Bieszki. 2,433,315; Dec. 23.  
 Folding table. S. L. Long. 2,426,514; Aug. 26.  
 Folding table. A. Taylor. 2,423,529; July 8.  
 Folding vehicle wheel. G. W. Fletcher. 2,419,445; Apr. 22.  
 Follow-up apparatus. F. D. Burns. 2,415,458; Feb. 11.  
 Follow-up for motor of self-synchronous type, Automatic. H. W. Goff. 2,426,606; Sept. 2.  
 Follow-up system. E. F. W. Alexanderson. 2,416,562; Feb. 25.



- Follow-up system, Electric. S. J. Smith. 2,420,501; May 13.
- Follow-up system, Load compensating. S. G. Isserstedt. 2,416,257; Feb. 18.
- Food brick, Fruit flavored. A. M. Zenzen. 2,414,131; Jan. 14.
- Food by radiant energy and gas, Dehydrating. C. Birds-eye. 2,419,875; Apr. 29.
- Food chopper, Vertically reciprocating and intermittently rotating. H. T. Clark. 2,422,340; June 17.
- Food cooking device. R. Sardeson. 2,414,396; Jan. 14.
- Food, Making ready-to-eat. W. P. Penty. 2,421,216; May 27.
- Food mixer. V. C. Kennedy. 2,427,099; Sept. 9.
- Food package, Composite. G. O. Mayer and E. C. Sloan. 2,424,536; July 22.
- Food package having coacting transparent and pictorial labels, Protected. R. E. Hanson. 2,433,663; Dec. 30.
- Food package, Heated. R. L. Steven. 2,425,900; Aug. 19.
- Food process. K. K. Newsom. 2,425,117; Aug. 5.
- Food processing unit and home power tool, Combination. H. C. Doner. 2,415,939; Feb. 18.
- Food product. R. Lopez-Irizarry. 2,426,834; Sept. 2.
- Food product, Dehydrated. A. M. Zenzen and W. Schloessinger. 2,432,222; Dec. 9.
- Food product, Irish moss. A. Frieden and S. J. Werbin. 2,427,594; Sept. 16.
- Food product, Making a. D. B. Vincent. Re. 22,865; Apr. 8.
- Food product, Ready-to-eat. W. P. Penty. 2,421,217; May 27.
- Food products, Casing or packaging perishable. L. A. Goodman. 2,420,310; May 13.
- Food products, Drying of moist. R. M. Schaffner. 2,417,843; Mar. 25.
- Food products, Producing dry. A. E. Briod and L. O. Buxton. 2,427,520; Sept. 16.
- Food products, Improving and preserving. C. Birdseye. 2,419,877; Apr. 29.
- Food receptacle in electrically heated stand. F. F. Gunther. 2,414,868; Jan. 28.
- Food warmer, Electric. L. Schworm, Jr. 2,428,996; Oct. 14.
- Foods, Freezing of. M. Van Etten. 2,419,380; Apr. 22.
- Foodstuffs, Dehydrating. A. J. Haagen-Smit. 2,421,121; May 27.
- Foodstuffs, Preserving. M. J. Stammelman. 2,417,889; Mar. 25.
- Foodstuffs, Processing. J. C. Donnelly. 2,433,348; Dec. 30.
- Foot adjustment for cabinets. B. Schramka. 2,418,236; Apr. 1.
- Foot balancer, Sesamoid-cuboid. H. L. Samblanet. 2,423,622; July 8.
- Foot corrective appliance. B. H. Sherman. 2,428,342; Sept. 30.
- Foot corrector. L. C. Zerkle. 2,417,852; Mar. 25.
- Foot massaging machine. W. Sandow. 2,424,120; July 15.
- Footpad. J. C. Day. 2,416,823; Mar. 4.
- Footwear. H. Freedman. 2,418,342; Apr. 1.
- Footwear. M. Friedmann, Jr. 2,424,609; July 29.
- Footwear. R. Maling. 2,419,785; Apr. 29.
- Footwear. P. H. Margulis. 2,426,403; Aug. 26.
- Footwear. S. L. Wilding. 2,430,199; Nov. 4.
- Footwear, Apparatus and process for the manufacture of. E. Rollmann. 2,432,174; Dec. 9.
- Footwear having adjustable closing means, Article of. L. H. L'Hollier. 2,433,228; Dec. 23.
- Footwear, Manufacture of. J. S. Kamborian. 2,428,803; Oct. 14.
- Footwear, Method and apparatus for uplating. J. S. Kamborian. 2,415,354; Feb. 4.
- Footwear protector. D. Rabinovitz. 2,420,618; May 13.
- Footwear, Rubber. E. F. Heckman. 2,426,211; Aug. 26.
- Footwear with water-resistant slide-fastener closure. A. M. Malluk. 2,422,249; June 17.
- Force determining device. H. D. Isenberg. 2,426,396; Aug. 26.
- Force lating machine. J. S. Kamborian. 2,421,508; June 3.
- Force system. R. F. Coleman. 2,416,570; Feb. 25.
- Forced air bottle cooler. L. A. Philipp. 2,417,123; Mar. 11.
- Forced draft hot-air heater. E. E. Elmore and R. F. Leger. 2,430,393; Nov. 4.
- Foreign matter in wool and other material, Comparison method of determining. H. J. Wollner. 2,427,435; Sept. 16.
- Forging and lubricant therefor. D. W. Sherman. 2,430,083; Nov. 4.
- Forging machine, Electrical. C. Rogati. 2,422,928; June 24.
- Fork, Ejector. S. Livingston. 2,420,710; May 20.
- Fork, Masticating. R. M. Daboul. 2,423,487; July 8.
- Fork, Train order delivery. W. E. Robertson. 2,431,199; Nov. 18.
- Fork with stripping means. O. E. Nichols. 2,430,242; Nov. 4.
- Form for casting concrete tubes, Core. A. E. Troiel. 2,425,137; Aug. 5.
- Form for making dental models, Adjustable. M. Schlesinger. 2,425,048; Aug. 5.
- Form for molding grave markers and the like in situ. E. A. Bailey. 2,421,535; June 3.
- Formation of a strong bond between a ferrous metal surface and an electrodeposit of silver. W. M. Martz. 2,431,947; Dec. 2.
- Formation samples, Method and apparatus for identifying. A. L. Smith. 2,414,246; Jan. 14.
- Formations in cased wells, Method of and apparatus for locating. G. H. Ennis. 2,414,194; Jan. 14.
- Former and guard, Cigar. H. L. Roby. 2,414,670; Jan. 21.
- Forming and shaping tool. H. McM. Griffin. 2,432,753; Dec. 16.
- Forming and spacing apparatus, Bunch. L. J. Powers. 2,414,059; Jan. 7.
- Forming device. G. E. Cadman. 2,433,808; Dec. 30.
- Forming device, Charge. F. C. Mock. 2,414,322; Jan. 14.
- Forming hollow objects, Method and apparatus for. D. G. Rempel. 2,420,443; May 13.
- Forming paper, Method and machine for. H. M. Ostertag and F. O. Boylan. 2,418,600; Apr. 8.
- Forming plaits, Method and apparatus for. G. E. Sedgely. 2,415,375; Feb. 4.
- Forsterite, Refractory fused. V. M. Goldschmidt. 2,418,026; Mar. 25.
- Foul line keeper, Automatic. J. A. MacLagan and T. A. Walsh. 2,425,254; Aug. 5.
- Foul line keeper, Automatic. J. A. MacLagan and T. A. Walsh. 2,425,256-7; Aug. 5.
- Foundation pile. V. Frenkil. 2,428,070; Sept. 30.
- Foundry mold coating. L. E. Anderson, Jr., and R. A. Coolahan. 2,425,978; Aug. 19.
- Fountain, Divided. E. W. Worthington. 2,431,900; Dec. 2.
- Fountain, Water. A. G. Royer. 2,425,643; Aug. 12.
- 4-amino-5-arylpyrimidine. W. H. Davies and A. W. Johnson. 2,418,548; Apr. 8.
- 4-aryl thiazole (and selenazole)-5-acetic acids and esters and producing the same. E. B. Knott. 2,423,709; July 8.
- 4,4'-diaminodiphenyl sulfones and making same, Substituted. L. P. Kyrides. 2,413,833-5; Jan. 7.
- 4,4'-dichlorodiphenyl 1,1,1-trichloroethane dispersed in polyvinyl acetate. G. E. Biehn and J. E. Kirby. 2,420,295; May 13.
- 4-hydroxy pyrimidines, Producing. E. H. Northey. 2,417,318; Mar. 11.
- 4-methyl-5-imidazolone-(2)-caproic acid and esters thereof. R. Duschinsky. 2,430,006; Nov. 4.
- 4-methyl-4-alkoxy-2-pentanones, Preparation of. J. B. Tindall. 2,430,436; Nov. 4.
- 4,6-di-tertiary-butyl-3-methylcyclohexanol. A. C. Whitaker and W. W. Weinrich. 2,433,008; Dec. 23.
- Fowl plucking machine. G. W. Johnson. 2,432,523; Dec. 16.
- Fowl suspension apparatus. L. Jasper. 2,423,560; July 8.
- Fractionation apparatus. T. H. Whaley. 2,416,724; Mar. 4.
- Fractions from glyceride oils, Recovery of valuable. B. H. Thurman. 2,415,313; Feb. 4.
- Fracture appliance. C. J. Speas. 2,432,695; Dec. 16.
- Fracture reduction apparatus. E. E. Longfellow. 2,414,882; Jan. 28.
- Frame: See—
- Adjustable hand weaving frame.
  - Bed-spring frame.
  - Cap frame.
  - Foldable baby carriage frame.
  - Furnace door frame.
  - Motor scooter frame.
  - Multiple processing frame.
  - Photographic enlargement printing frame.
  - Picture display frame.
  - Picture frame.
  - Railway track frame.
  - Saw frame.
  - Sewing frame.
  - Tent frame.
  - Travel frame.
  - Typewriting machine frame.
  - Umbrella frame.
  - Walking-aid frame.
- Frame and adjustable connector therefor, Awning supporting. E. C. Olsen. 2,423,402; July 1.
- Frame and closure therefor. S. Levikow. 2,423,987; July 15.
- Frame and negative carrier for enlarging, Registering. R. M. Haff. 2,418,226; Apr. 1.
- Frame and support, Picture. N. Barbieri. 2,416,976; Mar. 4.
- Frame construction. M. H. Wolf. 2,416,659; Feb. 25.
- Frame construction with attachment strips. W. H. Neely. 2,425,951; Aug. 19.
- Frame for articles of footwear, Supporting. W. H. Doherty. 2,421,019; May 27.
- Frame for chairs and the like, Side. M. Sabner. 2,423,798; July 8.
- Frame for earth movers, Articulated push. E. W. Austin. 2,429,506; Oct. 21.
- Frame for fabricating material, Supporting. H. R. Dillon. 2,421,189; May 27.
- Frame for luggage, Removable draping and storage. K. V. Wolsey. 2,422,511; June 17.
- Frame for pool balls. M. Volpe. 2,422,939; June 24.
- Frame for twin golf bags, Supporting. A. P. Robinson. 2,422,315; June 17.



- Frame of sheet material. R. I. Rhodes. 2,427,420; Sept. 16.
- Frame with support, Picture. C. N. Cross and G. E. Nichols. 2,419,823; Apr. 29.
- Frameless screen. L. E. Willett and M. Seide. 2,415,200; Feb. 4.
- Frames, Folding spectacle. W. G. Vasey. 2,419,303; Apr. 22.
- Framework, Building. J. Couëlle. 2,414,094; Jan. 14.
- Free piston engine. W. Kilchenmann. 2,425,375; Aug. 12.
- Free-piston internal-combustion engine. H. Steiner. 2,429,948; Oct. 28.
- Freeze unit, Quick. M. Di Zoppola. 2,433,655; Dec. 30.
- Freezer alarm and energizing same. J. Burgess. 2,433,024; Dec. 23.
- Freezer, Ice-cream. L. H. Knibb. 2,416,326; Feb. 25.
- Freezing machine. N. J. Schaal. 2,419,954; May 6.
- Freezing machine, Food. L. H. Bartlett, W. R. Woolrich, and H. E. Brown. 2,418,746; Apr. 8.
- Freezing of foods, Quick. J. M. Baer. 2,425,714; Aug. 19.
- Freezing of foodstuffs, Quick. L. H. Bartlett. 2,418,745; Apr. 8.
- Frequencies of networks, Method and apparatus for determining resonant. W. A. McCool. 2,431,339; Nov. 25.
- Frequency changer. H. M. Huge. 2,418,640-1; Apr. 8.
- Frequency changer. H. M. Huge. 2,424,236; July 22.
- Frequency changer, Magnetic. H. M. Huge. 2,418,643; Apr. 8.
- Frequency comparison and control circuit. N. I. Korman. 2,424,833; July 29.
- Frequency controlled frequency meter. F. Rieber. 2,429,427; Oct. 21.
- Frequency converter. G. M. Giannini. 2,424,451; July 22.
- Frequency converter system. J. van Slooten and A. van Weel. 2,432,183; Dec. 9.
- Frequency converting means. F. M. Bailey. 2,416,080; Feb. 18.
- Frequency counter. M. Ziegler. 2,416,078; Feb. 18.
- Frequency counter circuit. E. H. Schoenfeld. 2,415,567; Feb. 11.
- Frequency discriminator. R. C. Webb. 2,415,468; Feb. 11.
- Frequency discriminator, Balanced. E. Bard and M. J. Kobilsky. 2,425,981; Aug. 19.
- Frequency discriminator circuit. M. G. Crosby. 2,425,922; Aug. 19.
- Frequency discriminator circuit. V. J. Duke. 2,413,913; Jan. 7.
- Frequency divider. L. B. Bauer. 2,418,568; Apr. 8.
- Frequency divider. J. C. Coykendall. 2,413,956; Jan. 7.
- Frequency divider and discriminator circuit. M. G. Crosby. 2,425,923; Aug. 19.
- Frequency dividing apparatus. J. C. Coykendall. 2,416,158; Feb. 18.
- Frequency-doubling device for high-frequency oscillations. T. Douma. 2,420,740; May 20.
- Frequency-matching system. W. R. Carter. 2,425,028; Aug. 5.
- Frequency measurement. W. A. Anderson. 2,422,386; June 17.
- Frequency modulated altimeter or distance indicator. W. L. Carlson and V. D. Landon. 2,422,079; June 10.
- Frequency modulated altimeter or distance indicator. R. C. Sanders, Jr. 2,422,133; June 10.
- Frequency modulated distance indicator. R. C. Sanders, Jr. 2,422,135; June 10.
- Frequency-modulated pulse radio locating system. I. Wolff. 2,433,804; Dec. 30.
- Frequency modulated radio locator system and indicator. R. C. Sanders, Jr. 2,426,901; Sept. 2.
- Frequency modulated receiver. C. L. Richards. 2,415,656; Feb. 11.
- Frequency modulated velocity-distance measurement system. H. Kihn. 2,427,215; Sept. 9.
- Frequency modulation. W. M. Goodall. 2,426,996; Sept. 9.
- Frequency modulation. E. W. Kenefake. 2,424,830; July 29.
- Frequency modulation. E. Labin. 2,431,569; Nov. 25.
- Frequency modulation. R. M. Sprague. 2,423,952; July 15.
- Frequency modulation distance determining system. W. R. Mercer. 2,430,357; Nov. 4.
- Frequency modulation monitor. J. M. Brumbaugh. 2,415,456; Feb. 11.
- Frequency modulation system. A. Alvira. Re. 22,834; Jan. 28.
- Frequency modulator system with crystal oscillator. L. W. Born. 2,426,295; Aug. 26.
- Frequency multiplier. J. C. Ferguson. 2,427,204; Sept. 9.
- Frequency multiplier. H. M. Huge. 2,424,237; July 22.
- Frequency multiplying system. A. L. Samuel. 2,418,484; Apr. 8.
- Frequency reducer. H. M. Huge. 2,418,642; Apr. 8.
- Frequency regulator. W. C. Grabau. 2,420,312; May 13.
- Frequency resonator and circuits therefor, High. P. S. Carter. 2,424,267; July 22.
- Frequency selective system. W. P. Mason. 2,416,338; Feb. 25.
- Frequency shift telegraph receiver tuning indicator. R. S. Chapin. 2,423,225; July 1.
- Frequency variation of oscillator caused by change in voltage source, Compensation of. A. W. Sear. 2,427,231; Sept. 9.
- Friction box. S. Gagas. 2,415,241; Feb. 4.
- Friction clutch. R. A. Carlson. 2,413,810; Jan. 7.
- Friction clutch. G. F. Drake. 2,418,466; Apr. 8.
- Friction clutch. J. E. Freeborn. 2,419,890; Apr. 29.
- Friction clutch. E. O. Merline. 2,429,837; Oct. 28.
- Friction clutch. L. M. Ricketts. 2,426,791; Sept. 2.
- Friction clutch. D. M. Wood. 2,422,159; June 10.
- Friction composition and preparing the same. H. H. Greger and S. W. Briggs. 2,420,475; May 13.
- Friction device, Electromagnetic. J. G. Oetzel. 2,421,757; June 10.
- Friction drive control. W. H. Walker. 2,423,916; July 15.
- Friction element. R. E. Spokes and E. C. Keller. 2,428,298; Sept. 30.
- Friction element assembly. S. G. Tilden, F. D. Snell, and J. M. Fain. 2,426,421; Aug. 26.
- Friction element for brakes. J. G. Oetzel. 2,426,116; Aug. 19.
- Friction elements bonded with a reaction product of polymerized linseed oil, sulfur and phenolaldehyde resin mixed with a butadiene-acrylonitrile copolymer. R. E. Spokes and E. C. Keller. 2,428,299; Sept. 30.
- Friction facing and producing it. H. C. Morton. 2,431,883; Dec. 2.
- Friction facing for cone brakes. H. T. Kraft. 2,430,936; Nov. 18.
- Friction material, Making. W. Manfeldt. 2,415,752; Feb. 11.
- Friction material, Treating. C. S. Batchelor. 2,426,294; Aug. 26.
- Friction responsive mechanism. C. C. Martin. 2,414,960; Jan. 28.
- Friction seal coupling. F. E. Smith. 2,416,357; Feb. 25.
- Friction shock absorbing mechanism. E. H. Lehman. 2,421,075; May 27.
- Frictional mechanism and expander therefor. F. Van Arsdell. 2,414,005; Jan. 7.
- Frictional surfaces to facilitate wearing-in, Treatment of. B. B. Farrington, R. L. Humphreys, and R. T. MacDonald. 2,414,293; Jan. 14.
- Front drive toy vehicle. A. J. Middler. 2,423,248; July 1.
- Frost on refrigerator doors, Prevention of. W. B. Haggerty. 2,420,240; May 6.
- Froth flotation cell. D. S. Phelps. 2,416,066; Feb. 18.
- Froth-flotation concentration of sylvite from silvinitic ores. E. W. Greene, J. R. Sherertz, and A. T. Cole. 2,420,476; May 13.
- Froth flotation of a nickel-copper sulfide matte. W. K. Sproule, G. A. Harcourt, and E. H. Rose. 2,432,456; Dec. 9.
- Froth flotation of chalcopyrite-sphalerite ores, Differential. S. P. Moyer. 2,430,778; Nov. 11.
- Froth flotation of nonmetallic mineral. J. B. Clemmer and C. Rampacek. 2,424,552; July 29.
- Froth flotation of phosphate ore. B. D. Crawford and D. W. Jayne, Jr. 2,416,909; Mar. 4.
- Froth flotation of silica from iron ore with anionic collector. J. B. Clemmer and M. F. Williams, Jr. 2,415,416; Feb. 11.
- Froth flotation of sulfide ores with phosphorous-sulfide-olefin reaction product. C. M. Loane and J. W. Gaynor. 2,424,402; July 22.
- Fruit, Coloring whole citrus. J. N. Sharma. 2,425,073; Aug. 5.
- Fruit flavored raw sugar bricks. A. M. Zenzes. 2,429,251; Oct. 21.
- Fruit jar lifter. W. A. Root. 2,425,395; Aug. 12.
- Fruit jar washer. A. O. Myszkowski. 2,420,260; May 6.
- Fruit juice extractor. C. Mason. 2,419,688; Apr. 29.
- Fruit juice, Making natural colored. H. A. Noyes. 2,419,909; Apr. 29.
- Fruit marking machine. E. A. Verrinder. 2,424,006; July 15.
- Fruit paste, Manufacture of dried citrus. Z. Samisch. 2,422,588; June 17.
- Fruit picking device. S. S. Pearl. 2,421,962; June 10.
- Fruit, Processing. R. L. Ewald and H. A. Skog. 2,420,659; May 20.
- Fruit squeezer. D. Levin. 2,420,142; May 6.
- Fruit transfer means. G. A. Dunn. 2,414,584; Jan. 21.
- Fruit treating solution. R. D. Gerwe and M. A. Slade, Jr. 2,432,406; Dec. 9.
- Fruits and vegetables, Making dehydrated. H. K. Derby. 2,415,995; Feb. 18.
- Fryer, Deep fat. E. L. Kells. 2,429,360; Oct. 21.
- Fuel. L. L. Withrow. 2,427,173; Sept. 9.
- Fuel and obtaining same, Dustless. W. M. Fuchs. 2,416,476; Feb. 25.
- Fuel and preparation, Composite. R. S. Vose. 2,423,913; July 15.
- Fuel, Aviation motor. T. B. McCulloch. 2,429,133; Oct. 14.
- Fuel, Break-in. W. A. Zisman, H. R. Baker, and C. M. Murphy, Jr. 2,432,109; Dec. 9.
- Fuel burning apparatus, Liquid. L. S. Chadwick. 2,418,622; Apr. 8.
- Fuel burning apparatus, Liquid. M. Resek. 2,416,546; Feb. 25.



- Fuel burning method. P. R. Grossman. 2,416,053; Feb. 18.
- Fuel cell, Punctureproof. W. C. Smith and J. P. Haworth. 2,416,231; Feb. 18.
- Fuel components, Production of premium aviation. S. R. Bethea. 2,425,506; Aug. 12.
- Fuel conditioning device. G. M. Bicknell. 2,421,406; June 3.
- Fuel conditioning means. H. B. Hothouse. 2,418,882; Apr. 15.
- Fuel container. H. S. Holt. 2,422,239; June 17.
- Fuel control, Engine. F. C. Mock. 2,420,899; May 20.
- Fuel control for furnaces. R. W. De Lancey. 2,428,867; Oct. 14.
- Fuel economizer. F. R. Flounders. 2,431,659; Nov. 25.
- Fuel feeding and burning apparatus, Liquid. R. W. De Lancey. 2,432,143; Dec. 9.
- Fuel feeding means, Liquid. L. S. Chadwick. 2,416,514; Feb. 25.
- Fuel feeding system. L. Beeh. 2,421,475; June 3.
- Fuel feeding system with combined valve and air vent. S. E. Heymann. 2,424,754; July 29.
- Fuel flow warning device. J. Voliazzo and V. Medveckus. 2,421,768; June 10.
- Fuel gas dispensing system. E. A. Dieterle. 2,433,744; Dec. 30.
- Fuel gas from pulp mill waste, Manufacture of. A. J. Wiley. 2,429,589; Oct. 21.
- Fuel gauge. R. R. Curtis and H. C. Morgan. 2,423,875; July 15.
- Fuel induction means, Gas engine. E. G. Baker. 2,422,517; June 17.
- Fuel injecting pump. J. A. Civitarese. 2,432,507; Dec. 16.
- Fuel injection apparatus. A. T. Bremser. 2,430,801; Nov. 11.
- Fuel injection apparatus, Liquid. R. Miller. 2,420,550; May 13.
- Fuel injection, Continuous. F. J. Wiegand, W. T. Stark, and M. R. Rowe. 2,430,264; Nov. 4.
- Fuel injection pump. D. J. Deschamps. 2,429,806; Oct. 28.
- Fuel injection pump. L. J. Garday. 2,414,518; Jan. 21.
- Fuel injection system. J. F. Campbell. 2,427,835; Sept. 23.
- Fuel injection system. D. E. Meitzler. 2,421,844; June 10.
- Fuel injection system for internal-combustion engines. E. Dodson. 2,416,797; Mar. 4.
- Fuel oil burner. T. D. Rivers. 2,420,981; May 20.
- Fuel preparing apparatus, Liquid. R. L. Lowell. 2,415,748; Feb. 11.
- Fuel pressure responsive burner control. F. B. Aubert. 2,430,040; Nov. 4.
- Fuel pressure responsive burner control system. F. B. Aubert. 2,425,589; Aug. 12.
- Fuel, Production of aviation base. R. H. Newton. 2,426,233; Aug. 26.
- Fuel, Production of motor. E. H. Lang. 2,414,205; Jan. 14.
- Fuel pump. L. Beeh. 2,428,408; Oct. 7.
- Fuel pump. I. E. Coffey. 2,426,965; Sept. 2.
- Fuel pump. G. Hantjopoulos. 2,433,664; Dec. 30.
- Fuel pump. H. P. Miller. 2,414,696; Jan. 21.
- Fuel pump. W. F. W. Nicolls. 2,424,943; July 29.
- Fuel pump injection. W. H. Smith. 2,417,137; Mar. 11.
- Fuel saver device. P. C. Sorenson. 2,430,308; Nov. 4.
- Fuel, Supplementary. W. A. Catalano. 2,429,707; Oct. 28.
- Fuel supply system. L. Lee, II. 2,427,793; Sept. 23.
- Fuel supply system with vapor separator and booster pump. F. C. Mock. 2,414,158; Jan. 14.
- Fuel system, Aircraft. D. Samiran. 2,431,345; Nov. 25.
- Fuel tank. W. R. Hoover. 2,429,688; Oct. 28.
- Fuel tank casing. J. A. Merrill. 2,424,701; July 29.
- Fuel tanks, Manufacture of. K. L. Edgar and H. H. Gregg. 2,415,032; Jan. 28.
- Fuel valve mechanism. H. A. Gehres. 2,429,932; Oct. 28.
- Fuel vapor supply system for vehicle heaters. H. D. Pinkerton and C. S. Phenice. 2,429,842; Oct. 28.
- Fuels and preparation thereof, Motor. R. C. Brandon. 2,420,030; May 6.
- Fuels, Production of motor. R. H. Newton. 2,432,537; Dec. 16.
- Fuels, Production of motor or aviation. D. A. Howes. 2,421,619; June 3.
- Fuels, Stabilization of motor. P. L. De Verter. 2,433,033; Dec. 23.
- Fuels, Stabilization of motor. T. C. Roddy, Jr. 2,426,709; Sept. 2.
- Full-cell treatment of timber and similar material, Process and device for. B. O. Häger and S. B. Kjellström. 2,432,008; Dec. 2.
- Full-fashioned knitting machine. S. C. Mack. 2,433,568; Dec. 30.
- Fume removing and treating apparatus. M. I. Dorfan. 2,415,471; Feb. 11.
- Fumigant mixtures of ethylene bromide and methylene chloride. F. W. Fletcher and E. Kenaga. 2,425,238; Aug. 5.
- Fungicidal compositions. W. S. Hinegardner and N. D. Scott. 2,425,677; Aug. 12.
- Fungicidal compositions. W. S. Hinegardner and J. F. Walker. 2,425,678; Aug. 12.
- Fungicide compositions. J. F. Kagy and K. D. Sloop. 2,430,342; Nov. 4.
- Fungicides. L. C. Felton. 2,426,864; Sept. 2.
- Fungicides. J. B. Skaptason. 2,432,256; Dec. 9.
- Funnel for rayon spinning. V. F. French. 2,425,182; Aug. 5.
- Fur article. J. Weisberg. 2,432,360; Dec. 9.
- Fur carroting solution and process. M. Mulqueen. 2,432,207; Dec. 9.
- Fur-dyeing machine. S. A. Karten. 2,414,955; Jan. 28.
- Fur for felting, Carroting. M. Weissman. 2,432,056; Dec. 2.
- Furfural, Catalytic oxidation of. E. R. Nielsen. 2,421,428; June 3.
- Furfural from furfural-polymer mixtures, Recovery of. G. H. Miller. 2,428,120; Sept. 30.
- Furfural rerun systems, Prevention of corrosion in. V. Scarth. 2,416,500; Feb. 25.
- Furfural, Stabilization of. R. L. Comstock and H. F. Reeves, Jr. 2,426,143; Aug. 19.
- Furfuryl alcohol reaction methods and products. H. I. Hersh. 2,432,890; Dec. 16.
- Furfuryl alcohol resins, Preparing. W. H. Adams, Jr. 2,416,038; Feb. 18.
- Furnace: See—
- Air heating furnace.
  - Annealing furnace.
  - Down-draft furnace.
  - Electric arc furnace.
  - Electric glass furnace.
  - Electric rotary furnace.
  - Gas reaction furnace.
  - Heat treating furnace.
  - Heat-treating furnace.
  - High temperature electrically-heated furnace.
  - Induction furnace.
  - Industrial furnace.
  - Metallic ore sintering furnace.
  - Open hearth furnace.
  - Recuperative heat-treatment furnace.
  - Recuperative soaking pit furnace.
  - Rotary drum furnace.
  - Rotating annular hearth annealing furnace.
  - Salt bath furnace.
  - Steam boiler furnace.
  - Submerged resistor electric induction furnace.
- Furnace. P. B. Crocker. 2,421,482; June 3.
- Furnace. R. L. Hasche. 2,432,885; Dec. 16.
- Furnace. E. E. Robertson. 2,424,330; July 22.
- Furnace and condenser, Metallurgical. H. S. Cooper. 2,429,668; Oct. 28.
- Furnace and operating, Submerged resistor type induction. M. and M. Tama. Re. 22,948; Dec. 9.
- Furnace and operating, Submerged resistor type induction. Manuel and M. Tama. 2,415,974; Feb. 18.
- Furnace base plate, Quick locking. R. J. Anicetti. 2,431,905; Dec. 2.
- Furnace black, Rotary pelleting of. R. W. Skoog. 2,422,989; June 24.
- Furnace bottom and constructing same, Blast. F. M. Miller. 2,413,988; Jan. 7.
- Furnace bottom, Blast. A. B. Agnew and F. J. Reff. 2,418,742; Apr. 8.
- Furnace construction for fusing refractory materials and the like. E. Van der Pyl. 2,426,644; Sept. 2.
- Furnace control. R. H. Burton, C. L. Herman, and J. R. De Otto. 2,432,279; Dec. 9.
- Furnace control, Electric. R. F. Davis. 2,419,988; May 6.
- Furnace door. A. Sontz. 2,426,568; Aug. 26.
- Furnace door frame. W. C. Bulmer. 2,427,547; Sept. 16.
- Furnace electrode regulator. W. E. Moore. 2,422,362; June 17.
- Furnace for continuously heating metal strip, Electric induction. G. P. Wilson. 2,427,485; Sept. 16.
- Furnace for continuously heating metal strips, Electric induction. G. P. Wilson and L. E. Goff. 2,417,030; Mar. 4.
- Furnace for heat treatment of metal. H. Solakian and C. M. Vincent. 2,421,224; May 27.
- Furnace for melting of finely divided metal particles, Cupola. F. A. Wooley. 2,429,285; Oct. 21.
- Furnace for reducing and distilling volatile metals. H. Loevenstein. 2,432,111; Dec. 9.
- Furnace for the production of carbon black. P. H. Mitchell and S. Malcolm. 2,417,606; Mar. 18.
- Furnace front structure, Air feeding. G. A. Rehm. 2,431,422; Nov. 25.
- Furnace fronts, Protective means for heating. L. E. Deloghia. 2,426,084; Aug. 19.
- Furnace having sequentially arranged gas heating tubes. R. Ruegg. 2,419,463; Apr. 22.
- Furnace roof construction. W. E. Moore. 2,414,545; Jan. 21.
- Furnace roof structure including individual facing blocks, Multiple brick. J. E. MacDonald. 2,429,520; Oct. 21.
- Furnace stove checker, Blast. W. M. Bailey. 2,432,646; Dec. 16.
- Furnace with leads extending through a trunnion, Tilting induction. P. C. Vogel. 2,433,495; Dec. 30.
- Furnaces, Heating open-hearth. L. J. Westhaver and J. A. Slenker. 2,423,216; July 1.
- Furnaces, Operating blast. S. P. Kinney. 2,420,398; May 13.
- Furnaces, Operating open-hearth. E. A. Schwartz. 2,417,951; Mar. 25.



- Furnaces or soaking pits, Firing in. F. M. Washburn and R. N. Powell. 2,433,075; Dec. 23.
- Furnaces, Refractory bottom for metallurgical. W. R. McLain. 2,423,898; July 15.
- Furniture. F. E. Markus. 2,428,087; Sept. 30.
- Furniture arm protector. M. J. Passel. 2,418,092; Mar. 25.
- Furniture, Article of. J. Niver. 2,425,263; Aug. 5.
- Furniture, Article of. H. W. Pollack. 2,414,241; Jan. 14.
- Furniture, Concealed basin. H. S. Meidahl. 2,426,152; Aug. 19.
- Furniture construction. B. Berger. 2,427,832; Sept. 23.
- Furniture construction. W. S. Holabird. 2,428,877; Oct. 14.
- Furniture, Convertible. D. Picinolo. 2,416,496; Feb. 25.
- Furniture, Convertible article of. H. N. Barnum. 2,414,998; Jan. 28.
- Furniture, Convertible type. R. F. Butler. 2,432,379; Dec. 9.
- Furniture, Reclining article of. A. Lorenz. 2,433,520-1; Dec. 30.
- Furniture seat construction. M. Weingarten. 2,417,146; Mar. 11.
- Furrowing and planter device. B. R. Myles. 2,415,900; Feb. 18.
- Furs, Mothproofing. D. Traill and A. McLean. 2,424,068; July 15.
- Fuse. F. B. Hale. 2,420,662; May 20.
- Fuse. H. J. Nichols. 2,420,612; May 13.
- Fuse. H. J. Nichols. 2,428,380; Oct. 7.
- Fuse. L. J. Rhein. 2,419,967; May 6.
- Fuse. L. F. Young. 2,419,981; May 6.
- Fuse and circuit interrupting device, Combined. R. J. Baskerville and R. K. Bush. 2,427,181; Sept. 9.
- Fuse and switch unit. H. W. Kline. 2,417,692; Mar. 18.
- Fuse, Bomb nose. P. E. Rhicard. 2,414,558; Jan. 21.
- Fuse, Cartridge. G. A. Berthel. 2,430,041; Nov. 4.
- Fuse, Cartridge. B. W. Wells. 2,427,245; Sept. 9.
- Fuse changer. H. J. Kahaneck. 2,418,773; Apr. 8.
- Fuse construction. P. Kiang. 2,421,271; May 27.
- Fuse construction. W. O. Schultz. 2,423,258; July 1.
- Fuse construction. W. O. Schultz. 2,429,527; Oct. 21.
- Fuse containing electric plug. E. E. Hosmer. 2,428,625; Oct. 7.
- Fuse, Current limiting. C. G. Suits. 2,414,344; Jan. 14.
- Fuse device, Bomb. P. H. Girouard. 2,420,237; May 6.
- Fuse, Electric. E. P. Brus. 2,419,251; Apr. 22.
- Fuse for antiaircraft shells. P. W. Allison. 2,415,804; Feb. 18.
- Fuse for antitank mines, Skip. J. B. Traylor. 2,429,246; Oct. 21.
- Fuse for bombs, projectiles, and the like. H. C. Hebard. 2,418,769; Apr. 8.
- Fuse for land mines. F. Short. 2,428,817; Oct. 14.
- Fuse for land mines. F. Short and J. Pearlstein. 2,427,371; Sept. 16.
- Fuse for multicircuits, Matched. J. Rogoff. 2,426,844; Sept. 2.
- Fuse for ordnance projectiles or bombs. G. Hönger. 2,421,266; May 27.
- Fuse for projectiles. J. B. Semple. 2,415,262; Feb. 4.
- Fuse link. E. F. Boothe. 2,416,428; Feb. 25.
- Fuse, Mechanical time. C. C. Fawcett. 2,426,190; Aug. 26.
- Fuse, Mechanical time. J. E. Middlemiss. 2,420,324; May 13.
- Fuse, Mechanical time. M. P. Whitney. 2,421,859; June 10.
- Fuse plug. T. R. O'Connor. 2,420,837; May 20.
- Fuse plug. H. A. Peterson. 2,416,494; Feb. 25.
- Fuse, Power. W. D. Kyle, Jr., and A. Van Ryan. 2,429,518; Oct. 21.
- Fuse puller. R. E. Walker. 2,430,544; Nov. 11.
- Fuse, Renewable cartridge. E. P. Brus. 2,419,250; Apr. 22.
- Fuse setter. H. F. Vickers. 2,416,244; Feb. 18.
- Fuse setter, Electric. J. H. Borden. 2,427,895; Sept. 23.
- Fuse terminal clip. P. M. Christensen. 2,419,007; Apr. 15.
- Fuse unit. A. H. Powell. 2,426,468; Aug. 26.
- Fuse unit. A. H. Powell. 2,429,237; Oct. 21.
- Fused cable connector. A. H. Genter. 2,414,865; Jan. 28.
- Fused powder compositions. H. H. Holmes and W. E. Lawson. 2,414,465; Jan. 21.
- Fuselage skeleton for rotative wing aircraft. J. R. Huber. 2,421,620; June 3.
- Fuses and tool therefor, Setting time. R. H. Whitehead. 2,419,102; Apr. 15.
- Fusion welding with high-frequency starting, Repetitive blanketed electric. E. D. Morris. 2,423,515; July 8.
- Fuze. R. L. Graumann and W. J. Donahue, Jr. 2,427,671; Sept. 23.
- Fuze and setting mechanism therefor. A. H. Midgley and D. J. Grey. 2,415,362; Feb. 4.
- Fuze for projectiles. J. B. Semple. 2,427,977; Sept. 23.
- Fuze, Self-destruction. F. B. Wallace. 2,425,769; Aug. 19.
- Fuze, Water armed. G. E. Breeze and G. R. F. Gay. 2,419,815; Apr. 29.
- Fuzing unit for use in dropping bombs from aircraft. J. M. Jones and F. T. Connell. 2,424,618; July 29.
- GM of a ship, Determining. J. Kreitner and R. M. Kristal. 2,431,405; Nov. 25.
- Gaff guard. A. Minney. 2,419,363; Apr. 22.
- Gag press. E. T. Peterson. 2,433,322; Dec. 23.
- Gage: See—
- Circular size gage. Precision height gage.
- Comparator gage. Pressure operated electric strain gage.
- Dial bore gage. Screw thread analyzer gage.
- Dimension indicating gage. Slip gage.
- Drill bit pressure gage. Snap type gage.
- Gauge. Tap and drill gage.
- Liquid level gage. Telescoping inside gage.
- Mechanical pressure gage. Mortising gage.
- Micrometer height gage. Photoelectric blast pressure gage.
- Gage and jointer, Saw-tooth. S. De Walt. 2,420,468; May 13.
- Gage for measuring the wall thickness of annular bearing members. H. J. Look. 2,420,711; May 20.
- Gage for punch presses or the like, Work positioning. J. W. Shera. 2,433,533; Dec. 30.
- Gage for threading tool, Center. A. E. Belzung. 2,419,941; May 6.
- Gage-marking device. B. C. Madden, Jr. 2,415,434; Feb. 11.
- Gage to test the perpendicularity of the face of a work-piece to its axis. W. F. Moore. 2,427,152; Sept. 9.
- Gages, Manufacturing. I. C. Gardner. 2,423,094; July 1.
- Gaging apparatus, Electrical. C. M. Hathaway. 2,421,420; June 3.
- Gaging, ejecting, and refeed mechanism for die presses. D. R. McNally. 2,418,949; Apr. 15.
- Gaging machine for selecting rolls according to size, Pneumatic. B. L. Diamond. 2,421,484; June 3.
- Gain-control arrangement. J. A. Hansen and B. D. Loughlin. 2,429,513; Oct. 21.
- Gain control for pulse-echo system, Automatic. A. V. Bedford. 2,422,069; June 10.
- Gain control for pulse-echo systems, Automatic. A. V. Bedford. 2,422,334; June 17.
- Gain-controlling system for seismographs. E. J. Shimek and G. M. Groenendyke. 2,420,571; May 13.
- Gaiter. M. A. Varon and C. S. Malone. 2,422,055; June 10.
- Galvanizing apparatus. M. L. Eckman. 2,424,808; July 29.
- Galvanometer. H. W. Washburn. 2,425,407; Aug. 12.
- Galvanometer movement mounting. C. M. Hathaway. 2,424,823; July 29.
- Game. W. Ashworth. 2,419,000; Apr. 15.
- Game. A. H. Buffmire. 2,415,073; Feb. 4.
- Game. R. S. Lander and E. B. Ley. 2,433,769; Dec. 30.
- Game. L. H. Sayre. 2,417,216; Mar. 11.
- Game, Aerial projectile. H. F. Rothe. 2,417,615; Mar. 18.
- Game apparatus. T. M. Bains, Jr. 2,426,915; Sept. 2.
- Game apparatus. T. A. Johnson. 2,430,681; Nov. 11.
- Game apparatus. J. M. Prentice. 2,417,173; Mar. 11.
- Game apparatus. J. M. Prentice. 2,426,048; Aug. 19.
- Game apparatus. G. S. Shetler. 2,432,824; Dec. 16.
- Game apparatus. P. C. Wolf. 2,415,780; Feb. 11.
- Game board. N. M. Schruben. 2,424,123; July 15.
- Game, Bowling. C. D. Curtis and D. P. Grafflin. 2,413,749; Jan. 7.
- Game device. H. D. Gihon. 2,430,120; Nov. 4.
- Game device. D. H. Pelkola. 2,430,580; Nov. 11.
- Game goal, Basketball. W. J. Robinson, II, and F. E. P. Lindsay. 2,421,220; May 27.
- Game, Mechanical basketball. E. F. Gosnell. 2,431,552; Nov. 25.
- Game or toy. B. E. Norvell. 2,417,565; Mar. 18.
- Game piece. G. Paschal. 2,414,165; Jan. 14.
- Game piece projector. H. P. Botts. 2,424,016; July 15.
- Game, Racing. A. Robins. 2,429,428; Oct. 21.
- Gamma-valerolactone, Preparing. L. P. Kyrides and F. B. Zienty. 2,420,250; May 6.
- Gang assembly, Rotary. W. R. Brown. 2,419,986; May 6.
- Gangway. J. R. Butler. 2,424,876; July 29.
- Gantry. F. H. Borsini. 2,420,163; May 6.
- Garage door operating mechanism. J. A. Negri. 2,430,729; Nov. 11.
- Garbage disposal device. F. T. Hilliker. 2,421,064; May 27.
- Garden hose holder. W. J. Molitor. 2,425,893; Aug. 19.
- Garden tool. J. B. Ruple. 2,427,369; Sept. 16.
- Garment: See—
- Garment hanger.
- Garment. M. Breier. 2,415,333; Feb. 4.
- Garment. M. M. Brohard, Jr. 2,428,198; Sept. 30.
- Garment. E. Cadous. 2,424,600; July 29.
- Garment. J. Clyne. 2,426,818; Sept. 2.
- Garment. T. B. Craig. 2,431,466; Nov. 25.
- Garment. A. A. Elkins. 2,419,827; Apr. 29.
- Garment. E. Fligel. 2,422,779; June 24.
- Garment. J. J. Kispert. 2,428,881; Oct. 14.
- Garment. S. D. Koret. 2,431,809; Dec. 2.
- Garment. H. C. Lallmang. 2,416,930; Mar. 4.
- Garment. E. Lesavoy. 2,414,048; Jan. 7.
- Garment. J. W. Lewis, Jr. 2,420,486; May 13.
- Garment. R. Manson. 2,427,868; Sept. 23.
- Garment. F. R. McAbee. 2,421,955; June 10.
- Garment. D. Owen. 2,426,282; Aug. 26.
- Garment. A. W. Price. 2,415,845; Feb. 18.



- Garment. A. Quinn. 2,426,565; Aug. 26.  
 Garment. R. M. Reid. 2,418,987; Apr. 15.  
 Garment. C. A. Schuster. 2,417,888; Mar. 25.  
 Garment. P. Snyder. 2,417,271; Mar. 11.  
 Garment. T. Stumpf. 2,418,582; Apr. 8.  
 Garment. S. T. Warner. 2,426,959; Sept. 2.  
 Garment. E. Waxeman. 2,414,678; Jan. 21.  
 Garment. E. Woodman. 2,419,867; Apr. 29.  
 Garment and garment construction. J. Clyne. 2,426,819; Sept. 2.  
 Garment and shoulder pad therefor. M. J. Kreisberg. 2,415,698; Feb. 11.  
 Garment, Child's. B. M. Shank. 2,418,050; Mar. 25.  
 Garment, Child's sleeping. E. D. Padgett. 2,429,168; Oct. 14.  
 Garment, Combination. H. Wahlberg. 2,419,513; Apr. 22.  
 Garment construction. J. Clyne. 2,426,144; Aug. 19.  
 Garment construction. A. A. Goldstein. 2,426,500; Aug. 26.  
 Garment, Convertible athletic. L. Mintzes. 2,418,979; Apr. 15.  
 Garment cutting machine. S. Sheer and V. Ginsburg. 2,414,673; Jan. 21.  
 Garment, Diaper. R. M. and S. Romanowski. 2,433,017; Dec. 23.  
 Garment, Dog's. M. De Mar. 2,417,803; Mar. 25.  
 Garment finishing apparatus. G. W. Johnson. 2,421,203; May 27.  
 Garment finishing apparatus. A. F. Paris. 2,417,838; Mar. 25.  
 Garment forming machine. P. C. Bowen. 2,429,047; Oct. 14.  
 Garment, Foundation. H. J. Dubner. 2,424,651; July 29.  
 Garment, Foundation. P. J. Morano. 2,429,941; Oct. 28.  
 Garment hanger. E. J. Ajax. 2,431,976; Dec. 2.  
 Garment hanger. W. T. Albrecht. 2,421,307; May 27.  
 Garment hanger. J. F. Appleman. 2,426,292; Aug. 26.  
 Garment hanger. S. Behr. 2,419,435; Apr. 22.  
 Garment hanger. B. O. Blades. 2,419,879; Apr. 29.  
 Garment hanger. J. L. Boorstin. 2,429,919; Oct. 28.  
 Garment hanger. F. R. Brunner. 2,423,369; July 1.  
 Garment hanger. A. E. Chesler. 2,427,385; Sept. 16.  
 Garment hanger. R. E. Earl. 2,419,767; Apr. 29.  
 Garment hanger. L. B. Harris and V. R. Pascale. 2,416,750; Mar. 4.  
 Garment hanger. L. B. Harris and V. R. Pascale. 2,419,621; Apr. 29.  
 Garment hanger. R. R. Hawkins. 2,425,241; Aug. 5.  
 Garment hanger. C. A. Isaacson. 2,425,475; Aug. 12.  
 Garment hanger. W. R. Kohl. 2,426,556; Aug. 26.  
 Garment hanger. G. J. Kraft. 2,421,071; May 27.  
 Garment hanger. R. Lacourse. 2,423,782; July 8.  
 Garment hanger. H. M. Lipsitz. 2,425,547; Aug. 12.  
 Garment hanger. C. Lurtz. 2,424,280; July 22.  
 Garment hanger. J. L. Mack, Sr. 2,419,723; Apr. 29.  
 Garment hanger. J. F. May. 2,422,493; June 17.  
 Garment hanger. W. W. McFall. 2,431,818; Dec. 2.  
 Garment hanger. F. Miller. 2,419,362; Apr. 22.  
 Garment hanger. H. Navon. 2,415,216; Feb. 4.  
 Garment hanger. C. H. Nelson. 2,420,440; May 13.  
 Garment hanger. M. Phillips. 2,419,791; Apr. 29.  
 Garment hanger. R. Pierce. 2,428,240; Sept. 30.  
 Garment hanger. H. C. Riemann. 2,432,251; Dec. 9.  
 Garment hanger. S. Rosenberg. 2,425,829; Aug. 19.  
 Garment hanger. A. Sedacca and S. T. Phillips. 2,423,408; July 1.  
 Garment hanger. G. Sloan. 2,426,952; Sept. 2.  
 Garment hanger. J. W. Spires. 2,427,236; Sept. 9.  
 Garment hanger. I. F. Stalcup. 2,419,857; Apr. 29.  
 Garment hanger. M. J. Strassburg. 2,413,798; Jan. 7.  
 Garment hanger. E. L. Whensham. 2,415,228; Feb. 4.  
 Garment, Infants'. O. Sieloff. 2,425,402; Aug. 12.  
 Garment, Lady's. A. C. Bishop. 2,427,041; Sept. 9.  
 Garment, Lady's. N. A. Colonna. 2,429,396; Oct. 21.  
 Garment, Lady's. A. Licht. 2,432,910; Dec. 16.  
 Garment, Lady's. F. R. McAbee. 2,417,371; Mar. 11.  
 Garment, Lady's. M. Norton. 2,428,175; Sept. 30.  
 Garment, Lady's. W. Tarbell. 2,433,820; Dec. 30.  
 Garment, Nether. M. Stoehr. 2,424,720; July 29.  
 Garment, Nonstretch. C. Dreyfus. 2,426,674; Sept. 2.  
 Garment, Overall type. W. H. Davis. 2,425,460; Aug. 12.  
 Garment, Pleated. A. J. Bono. 2,413,906; Jan. 7.  
 Garment, Protecting and restraining. M. W. Shanker. 2,424,000; July 15.  
 Garment, Protective safety. A. R. Bray. 2,423,002; June 24.  
 Garment protector. A. A. Sherer. 2,418,197; Apr. 1.  
 Garment protector. C. L. Weeks. 2,416,556; Feb. 25.  
 Garment, Pull-over. G. K. Manus. 2,425,480; Aug. 12.  
 Garment rack. A. Pasco. 2,431,196; Nov. 18.  
 Garment streicher. A. C. McKenzie and R. H. and R. J. Jones. 2,420,051; May 6.  
 Garment stripping machine. I. Primus. 2,433,294; Dec. 23.  
 Garment stripping mechanism. I. Primus. 2,433,293; Dec. 23.  
 Garment support. R. S. Pankowski. 2,424,048; July 15.  
 Garment, Supporter. R. M. Hoey. 2,424,462; July 22.  
 Garment sustaining means. J. J. Meyerson and H. Buchsbaum. 2,430,070; Nov. 4.  
 Garment trimming machine. H. Lehde. 2,422,914; June 24.  
 Garment unloading device. J. P. Jorgenson. 2,425,618; Aug. 12.  
 Garment with adjustable cup sizes. A. Goldsholl. 2,420,774; May 20.  
 Garments by perspiration, Method to prevent the destruction of. M. Staw. 2,414,616; Jan. 21.  
 Garments, Method and apparatus for tagging. E. F. Meyer. 2,421,348; May 27.  
 Garter. E. V. Le Blanc. 2,425,479; Aug. 12.  
 Garter. J. H. Mackall. 2,413,984; Jan. 7.  
 Garter. F. J. Veitch. 2,417,332; Mar. 11.  
 Garter, Self-adjusting. N. Morton. 2,424,251; July 22.  
 Garter, Self-adjusting Man's. M. M. Halliss. 2,418,768; Apr. 8.  
 Garter, Woman's. F. I. Cook. 2,433,262; Dec. 23.  
 Gas analysis. L. Horvitz. 2,414,876; Jan. 28.  
 Gas analysis, Ionic. S. S. West. 2,427,484; Sept. 16.  
 Gas analyzer. C. Johnson. 2,420,430; May 13.  
 Gas, Analyzing. F. W. Crawford. 2,427,261; Sept. 9.  
 Gas, Apparatus and method for producing inert. L. K. Cecil, R. J. Stengl and F. B. Bedwell. 2,418,162; Apr. 1.  
 Gas burner. P. S. Harper and G. F. Turner. Re. 22,877; May 13.  
 Gas, Combined steam and combustion. B. F. Newcomer. 2,416,942; Mar. 4.  
 Gas conduit arrangement for internal-combustion turbine plants. K. Baumann. 2,433,416; Dec. 30.  
 Gas defrosting. Hot. A. B. Newton. 2,433,574; Dec. 30.  
 Gas determinator, Molding material. H. W. Dietert and R. L. Doelman. 2,414,364; Jan. 14.  
 Gas engine safety cap. M. R. Emery. 2,423,181; July 1.  
 Gas expanded rubber, Single stage production of. A. Cooper. 2,421,831; June 10.  
 Gas filled cable. K. S. Wyatt. 2,425,851; Aug. 19.  
 Gas-fired unit heater. H. Cohn. 2,417,103; Mar. 11.  
 Gas fuel, Method of and apparatus for heating liquefied. O. R. Anderson. 2,418,446; Apr. 8.  
 Gas heated embossing press. H. Lish. 2,419,271; Apr. 22.  
 Gas heated soldering iron. J. Attias. 2,418,004; Mar. 25.  
 Gas impervious fabric. O. W. Loudenslager and J. E. Wilson. 2,431,056; Nov. 18.  
 Gas masks, Making. S. P. Lovell and W. H. Lehmberg. 2,415,391; Feb. 4.  
 Gas, Method and apparatus for treating. F. S. Young. 2,428,643; Oct. 7.  
 Gas mixtures, Process and apparatus for separating. E. F. Yendall. 2,423,543; July 8.  
 Gas odorizing. C. E. Gill. 2,430,050; Nov. 4.  
 Gas pressure reducing means. L. C. Clair. 2,415,992; Feb. 18.  
 Gas purification apparatus and method. H. A. Gollmar. 2,422,781; June 24.  
 Gas purification method. J. H. Carpenter and C. N. Griffiths. 2,430,861; Nov. 18.  
 Gas reaction furnace. F. Daniels, W. G. Hendrickson, and F. M. Wolf. 2,421,744; June 10.  
 Gas safety shutoff, Automatic. R. E. Newell. 2,426,786; Sept. 2.  
 Gas saver, Turbo. A. Barabino. 2,415,668; Feb. 11.  
 Gas scrubber. R. R. Harmon. 2,420,242; May 6.  
 Gas separator. J. A. Campbell. 2,422,527; June 17.  
 Gas turbine plant. W. Traupel. Re. 22,844; Feb. 18.  
 Gas turbine, Reversible. C. R. Waller. 2,421,445; June 3.  
 Gas valve. A. Kalitinsky. 2,421,839; June 10.  
 Gas washer. N. C. Christensen. 2,414,718; Jan. 21.  
 Gaseous electric discharge lamp. H. Haynes and L. S. Ickis, Jr. 2,424,457; July 22.  
 Gaseous electric lamp. C. G. Smith. 2,430,482; Nov. 11.  
 Gaseous material, Catalytically reacting. C. W. Stratford and D. H. Putney. 2,419,097; Apr. 15.  
 Gaseous media by interchange of heat with cooling gases, Cooling. D. A. Rhoades. 2,433,397; Dec. 30.  
 Gaseous mixtures, Separation of the constituents. W. Dennis. 2,413,752; Jan. 7.  
 Gaseous reactions in the presence of solid particles, Method and apparatus for conducting. E. Utterback. 2,425,969; Aug. 19.  
 Gaseous spark tube. P. G. Chevigny. 2,414,450; Jan. 21.  
 Gases, Analysis of nitrous. R. H. Park and J. K. Dixon. 2,417,321; Mar. 11.  
 Gases and solids in fluidized systems, Contacting. C. E. Jahnig. 2,429,721; Oct. 28.  
 Gases and vapors absorbed in materials, Method and apparatus for analyzing. C. T. Langford, D. H. McKeller, and H. T. Davidson. 2,429,555; Oct. 21.  
 Gases and vapors with cyclically moving catalyst, Contacting. C. W. Stratford, J. A. Altshuler, and D. H. Putney. 2,419,098; Apr. 15.  
 Gases at low pressures, Handling and utilizing large volumes of. F. C. Cary. 2,426,669; Sept. 2.  
 Gases containing hydrogen and carbon monoxide, Production of. M. M. Marisc. 2,430,432; Nov. 4.  
 Gases, Detection of toxic. W. F. Fagen. 2,425,059; Aug. 5.  
 Gases for steam generation, Utilizing heat of waste. D. Dalin and G. Hagby. 2,433,547; Dec. 30.  
 Gases from solid particles, Separation of. E. J. Gohr and R. W. Richardson. 2,429,751; Oct. 28.  
 Gases in a paraffin isomerization process, Preventing build-up of light. J. K. Roberts. 2,433,482; Dec. 30.  
 Gases or liquids, Cooling of. M. Berlowitz. 2,414,135; Jan. 14.  
 Gases, Processes and apparatus for treatment of. J. C. Haun and R. E. and H. H. Richmond. 2,424,614; July 29.



- Gases with particle form solid materials, Method and apparatus for contacting. L. P. Evans. 2,423,013; June 24.
- Gases with solid contact materials, Method and apparatus for contacting. J. A. Crowley, Jr. 2,430,669; Nov. 11.
- Gasifier and burner. G. L. Reichhelm. 2,414,329; Jan. 14.
- Gassing and vacuumizing apparatus for dehydrated products, Bell type. H. R. Helm. 2,423,975; July 15.
- Gasket. H. W. Gould. 2,423,771; July 8.
- Gasket and construction. A. W. L. Hartbauer. 2,418,072; Mar. 25.
- Gasket, Closet. G. H. Wieland. 2,427,431; Sept. 16.
- Gasket for refrigerated systems, Antifreeze. W. McK. Baird. 2,414,009; Jan. 7.
- Gasket locking means. G. C. Hillenbrand. 2,415,948; Feb. 18.
- Gasket material and making the same. G. E. Ehle. 2,416,295; Feb. 25.
- Gasket, self-sealing ring-joint. F. W. Goetze. 2,422,009; June 10.
- Gasoline and diesel fuel by catalytic cracking and solvent extraction, Production of. G. M. Good, H. H. Voge, and B. S. Greensfelder. 2,429,875; Oct. 28.
- Gasoline burning hot-air heater. H. B. Holthouse. 2,432,314; Dec. 9.
- Gasoline conserving and power increasing attachment. J. C. and N. O. Wichmann. 2,415,619; Feb. 11.
- Gasoline filter. E. F. Webb. 2,424,211; July 15.
- Gasoline, Making an improved. W. J. Sweeney. 2,418,993; Apr. 15.
- Gasoline of high antiknocking characteristics, Producing. F. C. Fahnestock. 2,426,495; Aug. 26.
- Gasoline, Producing aviation. C. T. Harding. 2,429,718; Oct. 28.
- Gasoline, Production of an aromatic. R. M. Shepardson. 2,431,515; Nov. 25.
- Gasoline, Production of aviation. R. H. Newton. 2,424,997; Aug. 5.
- Gasoline using adsorptive catalysts, Manufacture of. J. W. Teter. 2,419,427; Apr. 22.
- Gasoline vaporizer. O. Allen. 2,430,852; Nov. 18.
- Gasolines, Catalytic reforming of mixed. W. J. Mattox. 2,427,800; Sept. 23.
- Gate: See—
- Film gate. Starting gate.
- Side packing floating ram gate. Vehicle-operated gate.
- Gate. E. J. Bopp. 2,417,540; Mar. 18.
- Gate and fastener therefor, Tail. H. G. Conner. 2,429,805; Oct. 28.
- Gate and interlock for elevators. Le R. H. Kiesling. 2,433,763; Dec. 30.
- Gate construction and operating unit therefor. R. Bransky. 2,430,325; Nov. 4.
- Gate, Farm. S. Swanson. 2,426,380; Aug. 26.
- Gate for amphibian vehicles, End. B. A. Swennes. 2,432,259; Dec. 9.
- Gate for cameras, Film. F. E. Biddle. 2,428,348; Oct. 7.
- Gate for centrifugal casting molds. G. A. Rubissow. 2,417,663; Mar. 18.
- Gate for irrigation ditches, Head. R. B. Blackmore. 2,415,332; Feb. 4.
- Gate for skip car charging chutes. C. R. Duke. 2,416,740; Mar. 4.
- Gate lock. J. M. Karwacki. 2,430,343; Nov. 4.
- Gate, Race starting. J. P. Whann and N. C. Harris. 2,418,807; Apr. 8.
- Gathering and loading machine, Material. F. Cartlidge. 2,418,573; Apr. 8.
- Gatherings, Producing. O. Haag. 2,418,347; Apr. 1.
- Gauge: See—
- Bore gauge. Liquid level gauge.
- Buttonhole gauge. Machinist's gauge.
- Concentric thread gauge. Mechanical pressure gauge.
- Conformator gauge. Photoelectric blast pressure gauge.
- Dial bore gauge. sure gauge.
- Dimension indicating gauge. Mortising gauge.
- Drill bit pressure gauge. Multiple bobbin gauge.
- Electrical resistance strain gauge. Pressure operated electric strain gauge.
- Fine wire strain gauge. Slip gauge.
- Fluid pressure gauge. Tailstock offset gauge.
- Fuel gauge. Tap and drill gauge.
- Gage. Thread checking comparator gauge.
- Head space gauge. Tire bulge gauge.
- Internal screw thread and diameter gauge. Tool setting height gauge.
- Knife gauge. Well pressure gauge.
- Gauge. J. C. Crowley. 2,427,199; Sept. 9.
- Gauge and measuring device for circular saws, Sliding cut-off. H. F. Malseed. 2,426,780; Sept. 2.
- Gauge for green corn cutter. C. E. Kerr. 2,424,241; July 22.
- Gauge for machine tools, Measuring. W. E. Burton. 2,419,818; Apr. 29.
- Gauge for measuring ball-bearing inner race grooves, Electric. J. J. Neff. 2,419,461; Apr. 22.
- Gauge for measuring chest expansion. C. McCann. 2,428,980; Oct. 14.
- Gauge for measuring the radial freedom of anti-friction bearings in their races, Electronic. J. J. Neff. 2,419,280; Apr. 22.
- Gauge for screw-thread rolling. S. E. Weinthal and E. T. Britcher. 2,433,078; Dec. 23.
- Gauge for setting box tool blades. A. A. Edenberg. 2,415,474; Feb. 11.
- Gauge for testing tapers. O. J. Minuto. 2,413,841; Jan. 7.
- Gauge for the rim or finishing portions of jars or the like. H. W. Ingle. 2,415,693; Feb. 11.
- Gauge for watch strap ends or the like. M. L. Hoffman. 2,415,821; Feb. 18.
- Gauge line cleaning device. J. L. and H. Moore. 2,424,046; July 15.
- Gauging and sorting machine, Screw-feed. S. I. Snook, L. Naveken, and C. G. Kehoe. 2,415,970; Feb. 18.
- Gauging apparatus, Multiple dimension. A. H. F. Bowness. 2,433,421; Dec. 30.
- Gauging device. W. F. Aller. 2,431,014; Nov. 18.
- Gauging device. A. R. Warner. 2,433,585; Dec. 30.
- Gauging device. A. W. Wiseman and J. W. Welker. 2,431,099; Nov. 18.
- Gauging device for determining dimensions of rotary members of pumps. K. H. Mustonen. 2,422,034; June 10.
- Gauging device for use in positioning, marking, and holding timber and for guiding the bit whilst dowel holes are bored. S. Wright. 2,428,730; Oct. 7.
- Gauging device, Pneumatic. L. S. Subber. 2,431,087; Nov. 18.
- Gauging device, Threaded workpiece. W. F. Aller. 2,431,013; Nov. 18.
- Gear: See—
- Aircraft landing gear. Power steering gear.
- Draft and buffing gear. Retractable landing gear.
- Draft gear. Retractable wing and landing gear.
- Head gear. Shock absorbing landing gear.
- Hydraulic steering gear. Synchronized control gear.
- Landing gear. Variable ratio steering gear.
- Liquid control gear. Vehicle running gear.
- Marine reversing gear.
- Planetary reverse gear.
- Power transmission gear.
- Gear control and indicating arrangement, Landing. H. G. Conway. 2,420,066; May 6.
- Gear control, Steering. J. B. Brown. 2,432,721; Dec. 16.
- Gear cutter. E. C. Head. Re. 22,891; June 24.
- Gear cutting machine. F. W. Jury. 2,426,774; Sept. 2.
- Gear cutting machine. C. C. Rutbell and J. Lusht. 2,432,809; Dec. 16.
- Gear drive. E. F. Small. 2,422,933; June 24.
- Gear drive for window regulators and the like. L. S. Greenmun. 2,422,830; June 24.
- Gear drive mechanism. C. C. Miller and R. H. Prewitt. 2,428,982; Oct. 14.
- Gear driven socket wrench. E. S. Stewart. 2,429,569; Oct. 21.
- Gear element. N. Noreyko. 2,421,463; June 3.
- Gear for amphibian airplanes, Retractable landing. E. E. Wallace. 2,430,898; Nov. 18.
- Gear for baby carriages and the like, Running. D. W. Siebert. 2,433,069; Dec. 23.
- Gear for landing on rails, Aircraft landing. E. L. Guerant. 2,414,039; Jan. 7.
- Gear for trailers and the like, Landing. P. Haig, M. Schillo, and J. Tompkins. 2,431,245; Nov. 18.
- Gear for trailers, Landing. C. G. Seyferth. 2,417,619; Mar. 18.
- Gear for trailers, Steering. J. M. Belo. 2,417,287; Mar. 11.
- Gear for transportation vehicles, Tandem axle running. J. P. Fellabaum. 2,433,268; Dec. 23.
- Gear grinding machine. C. T. Galloway. 2,424,271; July 22.
- Gear hobbing machine, Automatic worm. H. Pelphrey. 2,419,726; Apr. 29.
- Gear lock for aircraft, Retractable landing. S. Johnson. 2,423,501; July 8.
- Gear mechanism, Locomotive power reverse. M. T. Forker, Jr. 2,428,069; Sept. 30.
- Gear of internal-combustion engines, Valve. A. Boorer. 2,416,512; Feb. 25.
- Gear of the combination or Walschaert type, Steam engine valve. M. F. Reilly. 2,427,810; Sept. 23.
- Gear of the suspended eccentric rod type, Engine shaft actuated locomotive valve. S. D. Dekle. 2,416,982; Mar. 4.
- Gear or clutch disk, Self adjusting. J. R. Battaline. 2,416,083; Feb. 18.
- Gear planing machine. E. Laesser. 2,432,020; Dec. 2.
- Gear pump. H. H. Haight. 2,433,360; Dec. 30.
- Gear pumping mechanism. F. E. Fleischer. 2,416,987; Mar. 4.
- Gear rolling machine. H. Finzel. 2,423,932; July 15.
- Gearshift for bicycles and the like. A. A. Letourneur. 2,428,166; Sept. 30.
- Gearshift mechanism, Dual transmission. J. Boyer. 2,428,647; Oct. 7.
- Gear shifting mechanism. B. B. Bachman and C. E. Fogg. 2,432,712; Dec. 16.
- Gear shifting mechanism. P. Grant. 2,430,169; Nov. 4.
- Gear shifting mechanism. E. G. Kesling. Re. 22,892; June 24.
- Gear shifting mechanism. C. D. Peterson and E. J. Barth. 2,425,204; Aug. 5.
- Gear testing apparatus. L. W. Falk. 2,433,510; Dec. 30.
- Gear treating machine. A. Mackmann and W. E. Walsh. 2,433,468; Dec. 30.



- Gear with high frequency current, Heating. W. M. Roberds. 2,426,053; Aug. 19.
- Geared speed reducer with means for adjusting backlash. W. W. Halbrook. 2,424,564; July 29.
- Gearing and lever, Control. R. Wildermann. 2,431,290; Nov. 18.
- Gearing, Ball-and-socket. D. R. Ligh. 2,430,129; Nov. 4.
- Gearing, Multiplex bevel. K. F. J. Kirsten. 2,418,555; Apr. 8.
- Gearing, Mutilated. A. H. Davis, Jr. 2,418,701; Apr. 8.
- Gearing, Recoil. C. E. Balleisen and L. B. Hedge. 2,429,598; Oct. 28.
- Gearing, Reversible. J. N. Lavery. 2,425,815; Aug. 19.
- Gearing, Sprocket chain. E. T. Nord. 2,428,940; Oct. 14.
- Gears, Lapping. E. R. Gasser. 2,423,593; July 8.
- Gears, Manufacturing spiral bevel. G. E. Soper. 2,432,976; Dec. 16.
- Gears, Varying leverage. E. Wildhaber. 2,422,326; June 17.
- Geiger-Mueller tube. E. der Mateosian and M. McKeown. 2,427,663; Sept. 23.
- Gel composition, Pigmented. H. A. Toulmin, Jr. 2,428,896; Oct. 14.
- Gel-forming algin composition and method. J. I. Gates. 2,420,308; May 13.
- Gel manufacturing apparatus. W. H. Gabeler. 2,424,232; July 22.
- Gel-point indicator. H. I. Davis and D. E. Farwell. 2,423,687; July 8.
- Gelatin layers, Production of. O. Stein. 2,417,713; Mar. 18.
- Gelatin preparation. A. A. Epstein. 2,413,815; Jan. 7.
- Gelatin printing plate process. V. C. Ernst. 2,430,498; Nov. 11.
- Gelatin, Purification of. J. A. H. Hart and E. W. Lee. 2,423,773; July 8.
- Gelatine, Preparing blasting. H. W. Botts. 2,421,536; June 3.
- Gelatine vehicle. H. A. Abramson. 2,415,719; Feb. 11.
- Gels, Making nonrigid. D. R. Thompson. 2,421,093; May 27.
- Gem composition and method, Synthetic. D. Rosenthal. 2,425,954; Aug. 19.
- Gem grinding devices. J. H. Spira. 2,420,502; May 13.
- Generating mechanism, Profile. J. H. Barnes. 2,423,286; July 1.
- Generating plant for the propulsion of vehicles, Electric. O. Schlapfer. 2,424,121; July 15.
- Generator: See—
- Alternating current generator.
  - Alternating generator.
  - Balanced ultra-high frequency generator.
  - Bicycle generator.
  - Cathode-ray steam generator.
  - Composite television signal generator.
  - Direct-current generator.
  - Earth inductor generator.
  - Electric generator.
  - Electric impulse generator.
  - Electric steam generator.
  - Electrical oscillation generator.
  - Fog generator.
  - Harmonic generator.
  - High-frequency generator.
  - Impulse generator.
  - Infrared generator.
  - Keyed pulse generator.
  - Linear saw-tooth generator.
  - Motor-generator.
  - Multicomponent wave generator.
  - Noise generator.
  - Oil smoke generator.
  - Optical time base generator.
  - Oscillation generator.
  - Pulse generator.
  - Pure sinusoidal wave generator.
  - Radiant steam generator.
  - Radio pulse generator.
  - Reactance tube controlled generator.
  - Reflex harmonic generator.
  - Self-regulating high-frequency generator.
  - Self-synchronized saw-tooth generator.
  - Signal generator.
  - Smoke generator.
  - Steam generator.
  - Television synchronizing signal generator.
  - Ultra high frequency oscillation generator.
  - Unidirectional voltage generator.
  - Vapor generator.
  - Wide range variable frequency generator.
- Generator. R. A. Baudry and H. E. Criner. 2,424,299; July 22.
- Generator and amplifier, Electric oscillation. R. M. Barnard and A. Cooper. 2,417,805; Mar. 25.
- Generator arrangement for absorption refrigerating systems. R. S. Gaugler. 2,422,401; June 17.
- Generator attachment. C. R. Brown. 2,428,548; Oct. 7.
- Generator attachment for tractors. N. H. Montgomery. 2,433,573; Dec. 30.
- Generator fault protection. D. W. Exner. 2,426,005; Aug. 19.
- Generator for low frequencies, Oscillation. B. S. Vilkomerson. 2,415,773; Feb. 11.
- Generator for polar scanning of cathode ray tubes, Deflection signal. L. J. Bobb. 2,421,312; May 27.
- Generator including a cathode-ray tube, Oscillation. M. J. O. Strutt and A. van der Ziel. 2,418,735; Apr. 8.
- Generator light. M. McMath. 2,424,700; July 29.
- Generator mechanism, Signalling. R. K. Hellman. 2,420,638; May 13.
- Generator or motor field structure. M. Barlick. 2,429,180; Oct. 14.
- Generator protector. L. W. Buell. 2,427,440; Sept. 16.
- Generator system, Pulse. T. L. Gottier. 2,419,772; Apr. 29.
- Generator testing stand. A. Burrows. 2,418,332; Apr. 1.
- Generator voltage regulation. S. L. Lindbeck. 2,426,035; Aug. 19.
- Generator with radiator, Spark gap oscillation. H. Benioff. 2,422,176; June 17.
- Geneva movement, Magnetic repulsion. L. I. Mendelsohn. 2,420,607; May 13.
- Geophone polarity indicator. L. W. Gardner. 2,423,970; July 15.
- Geophysical prospecting. R. Maillet. 2,420,672; May 20.
- Geophysical records, Apparatus and method for making and analyzing. F. Rieber. 2,427,421; Sept. 16.
- Germicidal product and producing same. F. J. Sowa. 2,423,261; July 1.
- Germicidal solutions of phenyl mercury compounds. G. Rampel. 2,418,986; Apr. 15.
- Germicides and making same, Phenolic type. A. J. Salle and H. L. Guest. 2,420,099; May 6.
- Getter apparatus. B. F. Steiger. 2,426,247; Aug. 26.
- Gin, Milkweed. B. Berkman, A. R. Bacon, and C. Weber. 2,426,813; Sept. 2.
- Girdle. M. R. Williams. 2,418,242; Apr. 1.
- Glacé fruit and making same, Simulated. W. Schloessinger and A. M. Zenzes. 2,418,558; Apr. 8.
- Gland Packing. M. A. Gleeson. 2,416,917; Mar. 4.
- Gland packing. P. E. Lyddon. 2,426,461; Aug. 26.
- Glare shield attachment. L. Office. 2,432,674; Dec. 16.
- Glass, Alabaster. W. H. Armistead. 2,417,898; Mar. 25.
- Glass and making same, Colored fibrous. J. W. Perloff. 2,433,292; Dec. 23.
- Glass and manufacture thereof. H. A. Truby. 2,419,302; Apr. 22.
- Glass annealing. E. D. Tillyer. 2,418,489; Apr. 8.
- Glass article. R. H. Dalton. 2,422,472; June 17.
- Glass articles, Molding. R. P. Cassell. 2,419,763-4; Apr. 29.
- Glass articles, Tempering of fabricated. G. Heppell and W. Francoeur. 2,429,129; Oct. 14.
- Glass articles with luminous material, Coating tubular. A. J. Donovan. 2,421,550; June 3.
- Glass, Beryllium boro-phosphate. K.-H. Sun and M. L. Huggins. 2,415,661; Feb. 11.
- Glass bodies, Making hollow sealed. G. W. Roessler and R. A. Chilcote. 2,433,399; Dec. 30.
- Glass bottle stoppers, Grinding. C. B. Garwood. 2,427,849; Sept. 23.
- Glass composition. J. E. Stanworth. 2,429,432; Oct. 21.
- Glass composition and making same. E. D. Tillyer. 2,423,128; July 1.
- Glass composition, Water-soluble. R. E. Hall and C. J. Munter. 2,426,394; Aug. 26.
- Glass-covered electric conductors, Treatment of. A. V. Folco. 2,415,683; Feb. 11.
- Glass cutter. L. Lefebvre. 2,430,349; Nov. 4.
- Glass, Drinking. W. H. Marshall. 2,431,059; Nov. 18.
- Glass film on metal, Forming. S. F. Essig. 2,424,353; July 22.
- Glass, Fluogermanate. K. Sun. 2,425,403; Aug. 12.
- Glass forming apparatus, Sheet. D. N. Brown. 2,422,466; June 17.
- Glass having low-power factor. W. H. Armistead. 2,414,504; Jan. 21.
- Glass having low power factor. W. H. Armistead, Jr. 2,431,980; Dec. 2.
- Glass heating and working. E. M. Guyer. 2,428,969; Oct. 14.
- Glass, Infrared transmitting. H. P. Hood. 2,416,392; Feb. 25.
- Glass, Laminated safety. J. D. Ryan and F. B. Shaw. 2,425,568; Aug. 12.
- Glass-lifting or carrying device. S. Brewster and W. Miller. 2,420,811; May 20.
- Glass, Low reflection. F. H. Nicoll. 2,415,703; Feb. 11.
- Glass, Optical. R. E. Bastick and W. M. Hampton. 2,431,983; Dec. 2.
- Glass or like materials, Heat-treating. A. E. Spinasse. 2,417,094; Mar. 11.
- Glass press mold turning device. A. H. Forgar. 2,416,743; Mar. 4.
- Glass sealing device. O. G. Honzl. 2,413,766; Jan. 7.
- Glass, Selenium-containing. A. E. Pavlish and C. R. Austin. 2,414,413; Jan. 14.
- Glass, Selenium ruby. J. M. Youel. 2,418,684; Apr. 8.
- Glass sheets, Tempering. B. Long. 2,413,722; Jan. 7.
- Glass surfaces and composition, Washing. W. F. Wegst, L. R. Bacon, T. H. Vaughn, and D. J. Crawford. 2,425,907; Aug. 19.
- Glass surfaces with completely saponified cellulose ester textile material, Cleaning highly polished. W. Whitehead. 2,428,443; Oct. 7.
- Glass to metal seal. H. J. McCarthy. 2,422,628; June 17.
- Glass to reduce the proportion of incident light reflected thereby, Treatment of the surface of. A. R. Wood. 2,417,147; Mar. 11.
- Glass with copper halide vapors, Staining. H. S. Williams. 2,428,600; Oct. 7.
- Glass wool plate element for storage batteries. M. A. Powers. 2,428,470; Oct. 7.
- Glasses, Borosilicate. J. E. Stanworth. 2,426,472; Aug. 26.
- Glassware, Making. T. H. Sloan. 2,417,328; Mar. 11.
- Glassware, Manufacture of. E. Danner. 2,420,934; May 20.



- Glassware, Manufacture of. J. W. Greenbowe, A. H. Laidig, and W. F. Kelly, Jr. 2,433,116; Dec. 23.
- Glazes and enamels, Vitreous. L. D. Gittings. 2,423,971; July 15.
- Glazing unit, Multiple. C. D. Haven. 2,419,400; Apr. 22.
- Gladin suspensions and films. J. H. Obey. 2,430,885; Nov. 18.
- Glide path system. L. Himmel. 2,419,551; Apr. 20.
- Glider. D. S. Fahrney. 2,422,662; June 24.
- Glider pickup device. R. B. Cotton. 2,432,508-9; Dec. 16.
- Gliding attachment for bombs, Controllable. R. Fink, G. V. Holloman, and C. L. Paulus. 2,423,090; July 1.
- Globe, Navigational. F. H. Hagner. 2,429,754; Oct. 28.
- Globe structure, Illuminated. R. R. Dupler. 2,433,747; Dec. 30.
- Globe, Terrestrial. H. V. Johannsen. 2,422,101; June 10.
- Gloss in printing, Control of. H. C. Fisher. 2,419,206; Apr. 22.
- Glove. A. Charney. 2,425,784; Aug. 19.
- Glove and blank for making the same. W. O. Wells, Jr. 2,427,170; Sept. 9.
- Glove and making same, Knitted. E. Simmat. 2,418,957; Apr. 15.
- Glove and palm therefor. R. Seidel. 2,425,129; Aug. 5.
- Glove, Baseball. B. B. Stobbe. 2,417,996; Mar. 25.
- Glove, Baseball. A. J. Turner. 2,414,004; Jan. 7.
- Glove, Boxing. A. Hilton. 2,416,444; Feb. 25.
- Glove construction. S. Anderson. 2,433,327; Dec. 30.
- Glove, Convertible. W. Jones. 2,418,887; Apr. 15.
- Glove, Sportsman's. A. D. McDougall. 2,432,325; Dec. 9.
- Glove with change pocket. K. E. Dodge. 2,421,412; June 3.
- Glow and slow acting tube. J. H. Homrighous. 2,425,877; Aug. 19.
- Glucose bisulfite compounds of alkoxy amino pyridine. H. L. Friedman and L. D. Braitberg. 2,426,011; Aug. 19.
- Glucosidamino compounds of alkoxy pyridine. H. L. Friedman and L. D. Braitberg. 2,426,012; Aug. 19.
- Glucosides as plasticizers for water-soluble animal and vegetable adhesives. H. H. Young. 2,422,328; June 17.
- Glue and making the same, Vegetable. G. G. Pierson. 2,413,885; Jan. 7.
- Glue, Vegetable. G. G. Pierson. 2,413,886; Jan. 7.
- Glue, Vegetable. G. G. Pierson. 2,419,160; Apr. 15.
- Glutamic acid, Manufacture of. F. A. Hoglan. 2,433,219; Dec. 23.
- Gluten and products thereof, Recovery of. J. H. Obey. 2,431,417; Nov. 25.
- Glyceride oils and recovery of by-products, Refining of. M. Mattikow. 2,415,301; Feb. 4.
- Glycerides, Reconstitution of. J. F. Murphy and E. K. Holt. 2,418,898; Apr. 15.
- Glycerine from fermented liquors, Recovery of. R. A. Walmsley. 2,422,453; June 17.
- Glycerine, Manufacturing of. A. L. Schade and E. Färber. 2,414,838; Jan. 28.
- Glycerol and yeast by fermentation, Production of. A. L. Schade. 2,428,766; Oct. 7.
- Glycerol by fermentation, Production of. A. C. Neish, G. A. Ledingham, and A. C. Blackwood. 2,432,032; Dec. 2.
- Glycerol production, Fermentative. E. I. Fulmer, L. A. Underkoffler, and R. J. Hickey. 2,416,745; Mar. 4.
- Glycine-calcium carbonate antacid. H. A. Abramson. 2,429,596; Oct. 28.
- Glycol alginates, Manufacture of. A. B. Steiner. 2,426,125; Aug. 19.
- Glycol diethers. R. W. McNamee and L. G. MacDowell. 2,425,042; Aug. 5.
- Glycol ethers, Synthesis of. W. F. Gresham and R. E. Brooks. 2,429,878; Oct. 28.
- Glycol with a copolymer of an alkyl acrylate and maleic anhydride, Making an elastic polymer by milling and heating. F. C. Atwood. 2,418,688; Apr. 8.
- Glycols, Unsaturated bicyclic. H. A. Bruson, W. D. Niederhauser, and H. Iserson. 2,417,100; Mar. 11.
- Glyoxal sulphate, Preparing. E. Wolhuis and J. C. Lawler. 2,415,397; Feb. 4.
- Gocart. P. M. Ressinger. 2,419,656; Apr. 29.
- Gocart receptacle. A. J. Flynn, Jr. 2,419,680; Apr. 29.
- Go-devil device for locating obstructions in pipe lines. C. H. Fay. 2,428,326; Sept. 30.
- Goggle. E. M. Splaine. 2,420,106; May 6.
- Goggle, Variable density. D. P. Bernheim and E. M. Splaine. 2,422,287; June 17.
- Goggles. W. H. Lehmberg. 2,430,881; Nov. 18.
- Golf ball, Captive. L. Bédard. 2,432,714; Dec. 16.
- Golf club. L. R. Fetterolf. 2,429,351; Oct. 21.
- Golf club. J. J. Jakosky. 2,425,808; Aug. 19.
- Golf club. C. Sears. 2,432,450; Dec. 9.
- Golf club bag. I. O. Bauer. 2,422,218; June 17.
- Golf club carrier. G. J. Spohrer. 2,419,175; Apr. 15.
- Golf club carrier. G. H. Todd. 2,415,314; Feb. 4.
- Golf club cover. G. F. Lauretti. 2,422,245; June 17.
- Golf club head. R. A. Link. 2,414,234; Jan. 14.
- Governor. E. Grieshaber and W. J. Johnson, Jr. 2,421,497; June 3.
- Governor, Engine. M. Mallory. 2,415,508-9; Feb. 11.
- Governor, Engine. M. Mallory. 2,416,110; Feb. 18.
- Governor, Engine. M. Mallory. 2,431,182; Nov. 18.
- Governor, Engine. M. Mallory. 2,432,166; Dec. 9.
- Governor, Engine speed. M. Mallory. 2,431,816; Dec. 2.
- Governor for pumps, Pressure. R. J. Ifield. 2,424,035; July 15.
- Governor for variable pitch propeller systems. A. G. Forsyth. 2,421,873; June 10.
- Governor, Liquid fuel pump. E. A. Watson and R. J. Ifield. 2,429,005; Oct. 14.
- Governor, Motor. G. M. Deming. 2,420,360; May 13.
- Governor, Rotor. R. F. Onsrud. 2,426,045; Aug. 19.
- Governor, Speed. P. B. Shaffer. 2,416,122; Feb. 18.
- Governor, Velocity. R. Reger. 2,424,503; July 22.
- Grab, Automatic. A. T. Deily. 2,425,421; Aug. 12.
- Grader, Egg. M. B. Wrobley. 2,415,549; Feb. 11.
- Grader, String bean. C. E. Kerr. 2,416,008; Feb. 18.
- Grader with adjustable grading apertures, Belt type fruit. E. Metzger. 2,429,560; Oct. 21.
- Grading table with gauging slots, Automatic. G. M. Smith. 2,426,953; Sept. 2.
- Gradiometer, Integrating. E. M. McNatt. Re. 22,919; Sept. 23.
- Grain drill. T. W. Paul. 2,416,403; Feb. 25.
- Grain seeding controlling device. D. C. Murphy. 2,432,437; Dec. 9.
- Granular material, Handling of. H. R. Davis. 2,429,402; Oct. 21.
- Granular materials, Injection molding. W. R. Tucker. Re. 22,899; July 15.
- Granular materials into a head of pressure, Feeding. J. B. Rogers. 2,428,995; Oct. 14.
- Granular materials, Packaging. J. M. Wheaton and J. Hohl. 2,423,358; July 1.
- Granules and producing the same, Roofing. M. E. Buzzell and G. W. Swenson. 2,417,058; Mar. 11.
- Graphic privacy system. J. V. L. Hogan and H. C. Kessler. 2,414,101; Jan. 14.
- Graphite outgassing. J. E. White. 2,424,294; July 22.
- Graphitic carbon, Determination of. B. F. Scribner. 2,241,467; June 3.
- Graphitic material, and producing the same, Metallic impregnated. R. H. and D. Steinberg. 2,415,196; Feb. 4.
- Grapple. W. E. Winings. 2,415,547; Feb. 11.
- Grapple. J. Yett. 2,429,444; Oct. 21.
- Grappelling hook or anchor, Releasing. F. E. Long. 2,424,040; July 15.
- Grass and weed cutter. N. Brooke. 2,431,106; Nov. 18.
- Grass drying apparatus. J. E. Newman. 2,418,089; Mar. 25.
- Grate, Fireplace. T. Flaacke. 2,414,033; Jan. 7.
- Grate or burner. F. P. D. Scott. 2,414,397; Jan. 14.
- Grate, Reciprocating bar. L. F. Gough. 2,428,874; Oct. 14.
- Grate, Sectional. E. A. Kuntz. 2,425,101; Aug. 5.
- Grate with water cooled bars. E. Singy. 2,418,732; Apr. 8.
- Grating. E. B. Flint. 2,429,677; Oct. 28.
- Grating. E. L. Tarof. 2,425,054; Aug. 5.
- Grating structure, Continuous. R. J. Barry and C. H. Lewis. 2,421,980; June 10.
- Gratings having interlocked bars, Making. E. W. Utzler. 2,420,112; May 6.
- Graveling of wells. J. E. Garol. 2,418,343; Apr. 1.
- Gravity classification and screening of ore, Combined. G. B. Walker. 2,429,436; Oct. 21.
- Gravity flashlight switch. A. E. Pringle. 2,426,373; Aug. 26.
- Gravure printing processes and devices. K. Wolfson. 2,431,359; Nov. 25.
- Grease, Manufacture of. H. G. Houlton. 2,417,495; Mar. 18.
- Grease, Refining crude wool. E. Snyder. 2,417,329; Mar. 11.
- Grease-sealed underwater pulley block. P. Anderson. 2,431,446; Nov. 25.
- Grease, Soda base. J. D. Morgan and R. E. Lowe. 2,428,123; Sept. 30.
- Greases, Aluminum-base. F. J. Licata. 2,431,760; Dec. 2.
- Greases, Complex basic soap. L. W. McLennan. 2,417,429; Mar. 18.
- Greases, Manufacture of. B. H. Thurman. 2,433,636; Dec. 30.
- Greasing device, Bread pan. F. Bauer. 2,431,725; Dec. 2.
- Greasing device for antifricition bearings. R. W. Shartle. 2,427,233; Sept. 9.
- Grenade adapter. W. M. Fox. 2,420,661; May 20.
- Grenade adapter. C. Panter, J. H. Borden, P. L. Christensen, and W. W. Holler. 2,423,993; July 15.
- Grenade device, Tree suspension. C. R. Weinert. 2,419,430; Apr. 22.
- Grenade, Hand. F. Short. 2,421,762; June 10.
- Grenade launcher. C. H. Coates and R. S. Miller. 2,416,287; Feb. 25.
- Grid, Burner. H. E. Mills. 2,422,918; June 24.
- Grid structure for electron discharge tubes. L. K. Parker. 2,421,161; May 27.
- Grid winding machine. V. H. Van Sant. 2,425,015; Aug. 5.
- Grids, Making. D. F. Drieschman, G. Shepherd, M. Rabinowitz, A. M. Newhall, Jr., and H. E. Sorg. 2,422,827; June 24.
- Grignard reaction process, Continuous. C. E. Arntzen. 2,414,505; Jan. 21.
- Grill, Collapsible. J. W. Speaker. 2,414,490; Jan. 21.
- Grinder, Abrasive belt swing. H. R. Herchenrider. 2,429,621; Oct. 28.
- Grinder and polisher, Internal. H. H. Talboys. 2,419,665; Apr. 29.
- Grinder, Contour. A. K. Peterson. 2,428,891; Oct. 14.



- Grinder, Contour cutter. O. M. Braaten. 2,419,529; Apr. 29.
- Grinder, Cutter. O. M. Braaten. 2,425,859; Aug. 19.
- Grinder, Drill. R. B. Hanford. 2,429,057; Oct. 14.
- Grinder, Drill. J. V. H. Whipple. 2,426,478; Aug. 26.
- Grinder, Drill. C. A. Wiken and H. V. Boehnke. 2,415,121; Feb. 4.
- Grinder for fine die drilling machines, Needle. F. Crossman and E. A. Southam. 2,417,810; Mar. 25.
- Grinder for gate valve inserts. L. C. Culp. 2,417,737; Mar. 18.
- Grinder, Garbage. L. B. Green. 2,428,420; Oct. 7.
- Grinder, Lawn mower. C. Anderson. 2,432,851; Dec. 16.
- Grinder of the vertical axis rotary hammer type, Garbage. G. R. Coss and K. M. Hammett. 2,421,014; May 27.
- Grinder, Saw-tooth. M. H. Wilbert. 2,429,300; Oct. 21.
- Grinder, Valve. A. B. Riegel. 2,425,898; Aug. 19.
- Grinder, Valve-seat. P. E. Wilcox. 2,416,247; Feb. 18.
- Grinding and polishing gem facets. G. H. Rakowitzky. 2,429,961; Oct. 25.
- Grinding and polishing surfaces, Method and apparatus for. B. E. Luboshez. 2,415,646; Feb. 11.
- Grinding apparatus. A. B. Cardone, W. J. Gorman, and F. A. Rarick. 2,423,826; July 15.
- Grinding apparatus. J. A. Elmes. 2,431,795; Dec. 2.
- Grinding apparatus. L. L. Nieman. 2,414,056; Jan. 7.
- Grinding attachment for grinding the end face of pipes. A. L. Forbes, Jr. 2,414,781; Jan. 21.
- Grinding device, Crystal. A. Spina. 2,419,739; Apr. 29.
- Grinding machine. H. E. Balsiger and J. A. Boller. 2,419,940; May 6.
- Grinding machine. R. L. Bazley. 2,417,729; Mar. 18.
- Grinding machine. R. L. Bazley. 2,425,982; Aug. 19.
- Grinding machine. R. D. Gardner and J. Bohm. 2,424,448; July 22.
- Grinding machine. J. J. Keller and K. Lober. 2,432,765; Dec. 16.
- Grinding machine. T. H. Ljunggren. 2,429,830; Oct. 28.
- Grinding machine. W. G. Wessman. 2,414,182; Jan. 14.
- Grinding machine. C. A. Wiken and E. A. Reibig. 2,429,250; Oct. 21.
- Grinding machine. S. E. Woodbury. 2,420,024; May 6.
- Grinding machine and the like, Tool. J. V. Nelson. 2,423,790; July 8.
- Grinding machine attachment. W. E. Parks, H. Hecken-dorf, and E. J. Holzberger, Jr. 2,429,893; Oct. 28.
- Grinding machine, Automatic. R. Erwin, E. Troutman, and L. W. Lindquist. 2,425,234; Aug. 5.
- Grinding machine, Centerless. C. W. Hopkins and E. M. Eigenbrode. 2,427,283; Sept. 9.
- Grinding machine, Centerless. A. T. Peterson. 2,425,897; Aug. 19.
- Grinding machine, Centerless. A. Scrivener. 2,427,024; Sept. 9.
- Grinding machine, Crank shaft. F. M. Leusch. 2,431,054; Nov. 18.
- Grinding machine, Indexing universal. A. B. Bolender. 2,423,367; July 1.
- Grinding machine, Internal. L. R. Heim. 2,430,423; Nov. 4.
- Grinding machine, Screw thread. A. Rickenmann. 2,423,405; July 1.
- Grinding machine, Taper. M. H. Arms. 2,431,671; Dec. 2.
- Grinding machine, Thread. F. Turrettini. 2,423,422; July 1.
- Grinding, Method of and machine for. C. B. De Vlieg. 2,422,475; June 17.
- Grinding or polishing machine. J. J. Barna. 2,431,907; Dec. 2.
- Grinding wheel dressing tool. R. R. Bavosi. 2,425,453; Aug. 12.
- Grinding wheel truing apparatus. O. E. Hill. 2,415,010; Jan. 28.
- Grip attachment for containers. Jar. A. G. Blocker. 2,428,260; Sept. 30.
- Grip extension for handles. J. M. Roachell. 2,429,731; Oct. 28.
- Grip for air hammers and the like, Cushion. C. B. Johnson. 2,425,245; Aug. 5.
- Grip for shovels, Auxiliary hand. J. H. Catlin. 2,430,802; Nov. 11.
- Grip for tensile testing. R. R. Dillon. 2,419,711; Apr. 29.
- Gripper with removable pad, Stock. 2,421,563; June 3.
- Grit separator. W. H. Green and H. W. Gillard. 2,425,932; Aug. 19.
- Grommet and eyelet setting apparatus. S. L. Gookin. 2,422,405; June 17.
- Ground boring device. A. I. Sundbergh. 2,416,501; Feb. 25.
- Ground clamp. H. H. Merriman. 2,420,895; May 20.
- Ground speed indicator. E. I. Anderson and A. Barco. 2,422,064; June 10.
- Group control of plural alternating current motors. J. B. Reeves and E. W. Seeger. 2,418,806; Apr. 8.
- Group signaling, Hub-type telegraph repeater concentra-tion. A. R. Bonorden, P. V. Koos, J. A. Kreeck, W. V. K. Large, and T. A. Marshall. 2,413,688; Jan. 7.
- Growth promoting substances. W. W. Moyer. 2,416,198; Feb. 18.
- Guanides and their preparation. D. W. Kaiser and J. T. Thurston. 2,418,944; Apr. 15.
- Guanides, Preparation of. D. W. Kaiser. 2,431,644; Nov. 25.
- Guanidine derivative and preparing the same. S. Kush-ner and L. Brancone. 2,425,376; Aug. 12.
- Guanidine nitrate, Preparation of. G. F. Wright. 2,431,301; Nov. 18.
- Guanylurea with alkylene oxides, Condensation products of. W. P. Ericks. 2,423,643; July 8.
- Guard: See—
- Window guard.
- Guard, Adjustable screen door. C. R. Nagel. 2,431,416; Nov. 25.
- Guard and ear protector, Hearing. J. Y. Dunbar and J. S. Knight. 2,427,664; Sept. 23.
- Guard and holder, Pen and pencil. S. Greenberg. 2,415,208; Feb. 4.
- Guard and reflector, Pants. R. L. Coffin. 2,413,748; Jan. 7.
- Guard attachment, Stepladder. G. Brimboeuf. 2,423,477; July 8.
- Guard, Collision. W. A. Mee. 2,420,894; May 20.
- Guard, Derailment safety. G. McCormick and B. M. Brown. 2,431,062; Nov. 18.
- Guard device for circular-saw table sawing machine. L. F. Kramer. 2,425,331; Aug. 12.
- Guard, Dust. D. D. Bryant. 2,429,867; Oct. 28.
- Guard for electrical protective devices, Bird. C. A. Fox. 2,414,732; Jan. 21.
- Guard for flush wall outlets. G. C. Monaco. 2,415,602; Feb. 11.
- Guard for heel strippers. G. Hunt. 2,419,644; Apr. 29.
- Guard for journal boxes, Dust. E. Armstrong. 2,414,921; Jan. 28.
- Guard for machine tools, Automatic way. R. L. Rouge-mont. 2,430,827; Nov. 11.
- Guard for office furniture, Clothing. M. R. Wiley. 2,417,961; Mar. 25.
- Guard for roofing gutters. H. Audino. 2,423,923; July 15.
- Guard for ships' cables and lines, Rat. R. L. Johnstone and R. F. Downer. 2,421,151; May 27.
- Guard for typewriters, Wind. H. H. Langsdorf. 2,415,641; Feb. 11.
- Guard, Machine tool way. J. B. Armitage. 2,417,671; Mar. 18.
- Guard, Mower. A. G. Mills. 2,433,704; Dec. 30.
- Guard, Mower. H. C. Ronfeldt. 2,431,509; Nov. 25.
- Guard, Needle latch. O. Fregeolle. 2,417,479; Mar. 18.
- Guard, Phonograph needle. C. B. Dale. 2,417,814; Mar. 25.
- Guard, Pilot burner. A. C. Schickler. 2,430,688; Nov. 11.
- Guard, Sickle. C. J. Scranton. 2,431,663; Nov. 25.
- Guard, Sleeve. H. St. Pierre. 2,430,745; Nov. 11.
- Guard structure, Way. J. B. Armitage. 2,417,672; Mar. 18.
- Guard, Surgical cutter. R. J. Hicks. 2,429,356; Oct. 21.
- Guard, Thumb. E. Palutke. 2,429,563; Oct. 21.
- Guard, Tractor track. A. E. Webb. 2,418,610; Apr. 8.
- Guard, Typewriter erasing. M. Golomb. 2,427,852; Sept. 23.
- Guard, Wheel. A. Taurman and L. H. Hyneman. 2,414,676; Jan. 21.
- Guidance system for surface vessels, Electrical. E. N. Dingley, Jr. 2,428,360; Oct. 7.
- Guide and label, Combination. R. M. Miller. 2,430,525; Nov. 11.
- Guide device for vehicle doors. J. B. Parsons. 2,416,118; Feb. 18.
- Guide device for vehicles, Conduit. J. B. Parsons. 2,425,823; Aug. 19.
- Guide for conveyor systems, Adjustable. A. M. Masich. 2,425,158; Aug. 5.
- Guide for knitting machines, Thread. R. C. Amidon. 2,418,445; Apr. 8.
- Guide for track shoes or links. W. O. Bechman. 2,416,564; Feb. 25.
- Guide for water closet flush valves, Lift wire. G. G. Reiwald. 2,425,163; Aug. 5.
- Guide for yarn winders, Control. S. A. Straw. 2,426,473; Aug. 26.
- Guide, Lettering. F. P. Kuhl. 2,430,230; Nov. 4.
- Guide means for vehicle windows. B. S. Floraday. 2,429,156; Oct. 14.
- Guide, Micrometer lapping. E. D. Wilcox and R. E. Hunt. 2,431,598; Nov. 25.
- Guide, Mortising. E. B. Dixon. 2,426,003; Aug. 19.
- Guide-mounting arrangement. J. A. Miles, F. F. Long, and W. C. Giles. 2,428,288; Sept. 30.
- Guide roller assembly for motion-picture projectors. R. J. Miller. 2,423,334; July 1.
- Guide, Ruling. J. W. Wilt. 2,415,926; Feb. 18.
- Guide, Sewing machine strip. E. E. Murphy. 2,428,431; Oct. 7.
- Guide, Shuttle feeler. C. D. Brown. 2,424,019; July 15.
- Guide, Thread. P. T. Jones. 2,431,695; Dec. 2.
- Guide, Tool. O. J. Cannarilli and F. T. Klumpp. 2,428,201; Sept. 30.
- Guider, Cloth. J. D. Robertson. 2,417,447; Mar. 18.
- Guider, Cloth. J. D. Robertson. 2,422,369; June 17.
- Guides for attachment to guide bars of warp knitting machines, Warp. F. Lambach. 2,429,231; Oct. 21.
- Guiding means for material handling apparatus, Cable. W. Ruddock. 2,413,756; Jan. 7.
- Guiding system for aircraft, Altitude. R. C. Newhouse. 2,416,842; Feb. 25.
- Gum brace. J. A. Thiemann. 2,431,521; Nov. 25.



- Gum compositions, Chewing. H. Bennett. 2,429,664; Oct. 28.
- Gum massager. G. C. Shipley. 2,418,485; Apr. 8.
- Gummed paper tape machine. H. F. Gilliam. 2,432,880; Dec. 16.
- Gun adjustment, Electronic. F. E. Runge. 2,418,317; Apr. 1.
- Gun, Air-cooled. B. Walker. 2,427,374; Sept. 16.
- Gun and supply system for same, Cement or refractory material. S. B. Maurer. 2,419,410; Apr. 22.
- Gun barrel straightness testing apparatus. F. G. du Pont. 2,422,294; June 17.
- Gun carriage. R. W. Allen. 2,415,024; Jan. 28.
- Gun-carrying vehicle. E. P. Lamb. 2,420,179; May 6.
- Gun charger installation. D. M. Richey. 2,431,079; Nov. 18.
- Gun, Cleaning. M. C. Thompson. 2,420,109; May 6.
- Gun compensator, Automatic. G. W. Pontius, III, and A. P. Wilson. 2,426,744; Sept. 2.
- Gun control and tracking system, Stabilized. R. C. Knowles, W. T. White, and H. Harris, Jr. 2,414,108; Jan. 14.
- Gun control for tanks, Automatic. A. R. Stone. 2,423,856; July 15.
- Gun drill. J. Fleischer. 2,418,021; Mar. 25.
- Gunfire control. E. Bruce. 2,418,158; Apr. 1.
- Gun firing system. A. P. Davis and G. Agins. 2,415,126; Feb. 4.
- Gun, Fist. S. M. Haight. 2,423,448; July 8.
- Gun, High-pressure spray. W. K. Burkholder. 2,431,730; Dec. 2.
- Gun-loading mechanism. B. Jorgensen. 2,425,425; Aug. 12.
- Gun mount. W. H. D. D'Ardenne, W. J. Meinel, W. de Vore, and R. W. Wolf. 2,415,340; Feb. 4.
- Gun mount, Mobile. J. M. J. Riboud. 2,425,563; Aug. 12.
- Gun mount, Power-operated. J. C. Trotter. 2,430,747; Nov. 11.
- Gun mount, Shock absorbing. C. G. Trimbach. 2,421,858; June 10.
- Gun package, Machine. C. E. Waring and F. W. Gerard. 2,428,861; Oct. 14.
- Gun perforator. C. J. McWhorter. 2,426,517; Aug. 26.
- Gun perforator. J. G. Smylie. 2,418,486; Apr. 8.
- Gun perforator for oil well casings. W. Lampel and R. Hörndlein. 2,419,841; Apr. 29.
- Gun platform. M. Maeser. 2,421,794; June 10.
- Gun, Portable welding. A. J. Palese. 2,430,684; Nov. 11.
- Gun positioning means, Electron. R. O'Larte and K. Speck. 2,432,037; Dec. 2.
- Gun positioning system. J. F. Joy. 2,425,329; Aug. 12.
- Gun sight. P. G. Bennett. 2,426,812; Sept. 2.
- Gun sight. C. B. Ferrel. 2,423,141; July 1.
- Gun sight, Computing. A. Essex. 2,428,870; Oct. 14.
- Gun sight having fixed oculars and objectives movable with the gun, Stereoscopic. S. J. Zarodny. 2,422,710; June 24.
- Gun sight, Luminous. J. C. Karnes. 2,430,469; Nov. 11.
- Gun, Spray. A. F. Jenkins. 2,416,923; Mar. 4.
- Gun, Spray. H. C. Stockdale. 2,416,719; Mar. 4.
- Gun storage container. T. L. Taylor and C. F. Bell. 2,417,331; Mar. 11.
- Gun structure for cathode-ray tubes. S. J. Koch and R. E. Rutherford. 2,429,824; Oct. 28.
- Gun, Stud welding. H. S. Remmer. 2,416,954; Mar. 4.
- Gun support. M. Theis. 2,423,531; July 8.
- Gun training mechanism, Multiple. R. J. Woods. 2,414,914; Jan. 28.
- Gun turret. G. W. Pontius III. 2,414,608; Jan. 21.
- Gun turret. G. W. Pontius, III. 2,415,967; Feb. 18.
- Gun turret swivel. F. N. Dickerman. 2,424,650; July 29.
- Gun, Vaccinating. F. J. Swanson. 2,417,140; Mar. 11.
- Gun valve mechanism, Air. C. A. DeGiers. 2,417,546; Mar. 18.
- Gun with a fluid pressure follower, Grease. E. W. Davis. 2,433,506; Dec. 30.
- Gypsum compositions capable of setting at elevated temperatures. W. A. Whittier. 2,416,035; Feb. 18.
- Gypsum products and making, Water-resistant. T. P. Camp. 2,432,963; Dec. 16.
- Gyratory screen, rubber mounted spring support. W. P. Cottrell. 2,415,993; Feb. 18.
- Gyro compass instrument. L. F. Carter. 2,431,304; Nov. 25.
- Gyro devices, Stabilizing. F. P. Strother. 2,417,573; Mar. 18.
- Gyro erection controller, Vertical. M. C. Moore and H. Bridgman. 2,420,674; May 20.
- Gyro, Vertical-seeking. E. J. Poitras and J. D. Tear. 2,427,158; Sept. 9.
- Gyrocasting apparatus. G. A. Rubissow. 2,433,065; Dec. 23.
- Gyrocompass. R. Haskins, Jr. 2,419,948; May 6.
- Gyrocompass amplifier circuit. J. R. Lillenthal. 2,422,687; June 24.
- Gyroscope. R. S. Curry, Jr. 2,429,612; Oct. 28.
- Gyroscope. G. L. M. Herondelle. 2,426,213; Aug. 26.
- Gyroscope. V. H. Meyer and J. C. Cantley. 2,415,899; Feb. 18.
- Gyroscope caging device. T. O. Summers, Jr. 2,422,267; June 17.
- Gyroscope construction. G. L. Borell. 2,428,925; Oct. 14.
- Gyroscope control. F. Fischer. 2,419,063; Apr. 15.
- Gyroscope controlled antenna stabilizer. C. R. Hanna and L. B. Lynn. 2,425,737; Aug. 19.
- Gyroscope sighting system having a fixed line of sight. A. M. Fedde. 2,432,613; Dec. 16.
- Gyroscope, Slave directional. H. H. Thompson. 2,421,042; May 27.
- Gyroscopic apparatus. B. G. Carlson. 2,427,549; Sept. 16.
- Gyroscopic attitude indicating instrument. T. O. Summers, Jr. 2,423,269; July 1.
- Gyroscopic attitude indicator. H. C. Wendt. 2,417,720; Mar. 18.
- Gyroscopic control apparatus. T. O. Summers, Jr. 2,423,270; July 1.
- Gyroscope controller. E. P. Turner. 2,428,345; Sept. 30.
- Gyroscope device. F. V. Johnson. 2,417,689; Mar. 18.
- Gyroscope horizon. F. D. Braddon. 2,425,300; Aug. 12.
- Gyroscope stabilizer. B. E. Luboshez. 2,432,430; Dec. 9.
- Gyroscopically controlled motor vehicle. W. B. Wheeler. 2,415,056; Jan. 28.
- H F Alkylation. H. P. Caldwell, Jr. 2,432,281; Dec. 9.
- HF alkylation of isoparaffins by means of olefins, Multi-stage. J. B. Kirkpatrick, C. H. Schlesman, and A. A. O'Kelly. 2,430,228; Nov. 4.
- Hair curler. G. A. Broyles. 2,422,716; June 24.
- Hair curler. M. M. Talbot. 2,423,420; July 1.
- Hair curling device. W. and E. A. Pohl. 2,432,585; Dec. 16.
- Hair cutting appliance. G. C. Mitchell. 2,431,270; Nov. 18.
- Hairdressing dispenser. W. W. Brown. 2,413,682; Jan. 7.
- Hair drier. C. W. Lanter. 2,428,630; Oct. 7.
- Hair drier. J. J. Polite. 2,424,502; July 22.
- Hair drier. L. D. C. Woodyard, G. P. Tyler, and J. G. Kafer. 2,430,751; Nov. 11.
- Hair drying means provided with silica gel. E. J. Culligan and G. H. Klumb. 2,420,358; May 13.
- Hair, Method and apparatus for waving. M. del Zoppo. 2,426,343; Aug. 26.
- Hairnet and making same. H. F. Goldsmith. 2,428,071; Sept. 30.
- Hairpin. F. W. Schrader. 2,423,160; July 1.
- Hairpin dispenser. H. M. Howard. 2,421,202; May 27.
- Hairpin dispenser. B. A. Muller-Molnar. 2,423,788; July 8.
- Hairspring assembly. R. H. Whitehead. 2,419,103; Apr. 15.
- Hairspring to an arbor, Securing a. C. C. Fawcett. 2,424,250; July 22.
- Hair straightening and drying device. M. D. Howe. 2,419,777; Apr. 29.
- Hair-waving rod. R. F. Burch, Sr. 2,421,008; May 27.
- Halide catalysis of hydrocarbons, Metal. J. M. Mavity. 2,418,419; Apr. 1.
- Halide emulsions containing water-insoluble hydrazine derivatives, Silver. R. E. Stauffer and W. F. Smith. 2,419,974; May 6.
- Halide-hydrocarbon complex catalyst, Preparation of metallic. G. F. Gruenke. 2,418,346; Apr. 1.
- Halides from sludges thereof, Recovery of aluminum. M. J. Murray. 2,431,768; Dec. 2.
- Halogen containing linear polymers, Curing. R. V. Lindsey, Jr., and S. L. Scott. 2,416,878; Mar. 4.
- Halogen substituted acrylonitriles as insecticides. H. S. Davis. 2,433,742; Dec. 30.
- Halogen substituted aminoarylsulphonic acid derivatives, Preparation of. H. Martin, H. H. Zaeslin, R. Hirt, and A. Staub. 2,424,477; July 22.
- Halogen-yielding compositions. P. L. F. Magill. 2,430,233; Nov. 4.
- Halogenated compounds, Production of. W. H. Peterson and K. D. Detling. 2,419,500; Apr. 22.
- Halogenated phenacylpyridines and preparing the same. J. A. Smith, Jr. 2,414,398; Jan. 14.
- Halogens, Recovery of. E. Gorin. 2,418,931; Apr. 15.
- Halohydrin reacted aromatic amine polymer. S. S. Kistler. 2,416,262; Feb. 18.
- Haloprenes, Production of. G. W. Hearne and D. S. La France. 2,430,016; Nov. 4.
- Halosulphurized cardanol ethers. F. P. Otto. 2,414,057; Jan. 7.
- Halter. H. Masbruch. 2,422,308; June 17.
- Halter or brassière. M. Kay. 2,430,877; Nov. 18.
- Halving and reaming machine for extracting juice from citrus fruit. M. G. Healy. 2,428,157; Sept. 30.
- Hammer. K. Bruchsaler. 2,420,120; May 6.
- Hammer. O. J. Fortin. 2,427,399; Sept. 16.
- Hammer, Automatic stamping. E. C. Deitrich. 2,418,165; Apr. 1.
- Hammer, Chipping. E. M. McMurtry. 2,429,728; Oct. 28.
- Hammer, (fluid operated), Forging. H. Terhune. 2,429,780; Oct. 28.
- Hammer-lock union. A. S. Volpin. 2,417,025; Mar. 4.
- Hammer, Pneumatic nailing. H. J. Alter. 2,421,474; June 3.
- Hammer, Tack. H. H. Johnson. 2,433,223; Dec. 23.
- Hammer, Tack. A. M. Taylor. 2,425,494; Aug. 12.
- Hamper and wash bowl, Combined clothes. W. S. Brooks. 2,425,083; Aug. 5.
- Ham press. C. Butz. 2,425,727; Aug. 19.
- Hams, Boning. P. J. Staab. 2,419,424; Apr. 22.
- Hand abrader. A. W. Jensen. 2,420,397; May 13.



- Hand, Artificial. A. H. Stone. 2,429,001; Oct. 14.  
 Handbag. W. B. Crane. 2,416,822; Mar. 4.  
 Handbag. R. L. Dumbruski. 2,427,201; Sept. 9.  
 Handbag. R. E. Fisler. 2,432,001; Dec. 2.  
 Handbag. T. W. Hines. 2,428,159; Sept. 30.  
 Handbag carrier. S. Cannella. 2,428,906; Oct. 14.  
 Handbag, Decorated. R. Jackler and D. H. Goldberg. 2,428,972; Oct. 14.  
 Handbag, Multiple compartment. J. G. Vasquez. 2,429,856; Oct. 28.  
 Handbag of plastic. W. J. Reilly. 2,429,962; Oct. 28.  
 Handbag, Semi-self-closing. E. L. Edwards. 2,431,030; Nov. 18.  
 Hand brake. G. E. Dath. 2,427,389; Sept. 16.  
 Hand brake. G. E. Dath. 2,430,495; Nov. 11.  
 Hand brake arrangement. P. W. Gaenssle. 2,416,871; Mar. 4.  
 Hand carding tool. J. W. Weber and C. R. Davies. 2,419,748; Apr. 29.  
 Hand loom. H. R. Dillon. 2,424,880; July 29.  
 Hand loom. M. L. Eckert. 2,427,093; Sept. 9.  
 Hand motor. P. J. Herold. 2,421,455; June 3.  
 Handset telephone mounting. H. F. Obergfell. 2,428,091; Sept. 30.  
 Handle: See—  
   Carrier handle. Fishing rod handle.  
   Container handle. Folding handle.  
   Decorative knife handle. Pan handle.  
   Detachable handle. Tool handle.  
   Door handle. Welder handle.  
 Handle. E. H. Sieling. 2,424,125; July 15.  
 Handle accessory for containers. S. N. Lebold. 2,419,842; Apr. 29.  
 Handle and hanger, Combined. C. Wulstein. 2,420,277; May 6.  
 Handle and lock, Deck lid. F. Humer. 2,423,937; July 15.  
 Handle and screw top, Oil can. A. A. Miller. 2,431,881; Dec. 2.  
 Handle bar for bicycles, Folding. F. W. Schwinn. 2,414,275; Jan. 14.  
 Handle construction. H. Kidd. 2,426,830; Sept. 2.  
 Handle, Fishing rod. F. H. C. Dorner. 2,422,084; June 10.  
 Handle for a rubbing machine, Extension. S. A. Crosby. 2,428,204; Sept. 30.  
 Handle for chain saws, Quick-detachable head, guard, and helper's. M. L. Forrest. 2,432,567; Dec. 16.  
 Handle for coffee makers. P. Schlumbohm. 2,414,902; Jan. 28.  
 Handle for cook pots. H. Eckhoff. 2,425,604; Aug. 12.  
 Handle for fishing rods. J. Carlson. 2,433,197; Dec. 23.  
 Handle for flask-necks. P. Schlumbohm. 2,414,901; Jan. 28.  
 Handle for paper bags, Detachable. H. P. Botts. 2,417,465; Mar. 18.  
 Handle for reversible cooking utensils, Detachable. C. A. Ovenshire. 2,432,792; Dec. 16.  
 Handle for suction cleaners. F. S. Howard. 2,419,554; Apr. 29.  
 Handle for suitcases or other articles, Detachable. A. J. Gretschel. 2,416,621; Feb. 25.  
 Handle for thermostats, Adjustable. G. E. Hanner. 2,414,040; Jan. 7.  
 Handle for utensils, Detachable. C. Fiorenza. 2,431,387; Nov. 25.  
 Handle, latch and latch operator, Door. G. V. Jakeway. 2,433,278; Dec. 23.  
 Handle lock. H. W. Rasmussen. 2,427,622; Sept. 16.  
 Handle or holder, Razor blade. N. S. Olesen. 2,413,926; Jan. 7.  
 Handle securing means for drills, Plastic. W. G. Mitchell. 2,430,527; Nov. 11.  
 Handled implement hanger. O. A. Menzel. 2,413,839; Jan. 7.  
 Handling apparatus, Bullet. R. W. Vergobbi. 2,428,103; Sept. 30.  
 Handling apparatus, Material. H. H. Merwin. 2,421,347; May 27.  
 Handling of fish meal and the like. J. J. Dorsey. 2,420,393; May 13.  
 Hangar door operating mechanism. E. R. Weaver. 2,425,016; Aug. 5.  
 Hanger: See—  
   Adjustable clothes hanger. Folding garment hanger.  
   Adjustable skirt hanger. Garment hanger.  
   Automobile hanger. Handled implement hanger.  
   Brake beam safety hanger. Hip boot hanger.  
   Cable hanger. Journal box bucket hanger  
   Clothes closet hanger. Laundry hanger.  
   Clothes hanger. Liner hanger.  
   Coat hanger. Multiple garment hanger.  
   Collapsible clothing hanger. Pants hanger.  
   Combination clothes hanger. Pipe hanger.  
   Combination garment hanger. Skirt and trouser hanger.  
   Drape hanger. Trouser hanger.  
   Film hanger. Window screen hanger.  
   Finger grip expandable garment hanger.  
 Hanger. J. A. Carpenter. 2,419,675; Apr. 29.  
 Hanger. A. Graeber. 2,419,638; Apr. 29.  
 Hanger. J. A. McCarthy. 2,417,397; Mar. 11.  
 Hanger. R. H. Webster. 2,432,957; Dec. 16.  
 Hanger and stretcher, Trouser. M. A. Oxley. 2,418,314; Apr. 1.  
 Hanger device. L. D. Golden. 2,419,398; Apr. 22.  
 Hanger for an eaves trough. L. J. Alig. 2,431,012; Nov. 18.  
 Hanger for cables and the like. R. E. Eggert and L. C. Brose. 2,417,244; Mar. 11.  
 Hanger for chairs, Coat. F. C. Duval. 2,417,866; Mar. 25.  
 Hanger for lighting fixture. F. W. Watkins. 2,421,447; June 3.  
 Hardware and screen cloth machine. N. S. Harter. 2,421,261; May 27.  
 Harmonic generator. A. E. Anderson. 2,423,078; July 1.  
 Harmonica. F. Sonnen. 2,420,450; May 13.  
 Harness for microphones, Face. H. C. Hornickel. 2,418,120; Apr. 1.  
 Harness for parachute delivery of ammunition boxes. H. Wilson and W. P. Yarborough. 2,416,602; Feb. 25.  
 Harness, Loom. J. J. Kaufmann. 2,426,456; Aug. 26.  
 Harness, Making ignition. H. M. Wilkoff. 2,433,081; Dec. 23.  
 Harness, Parachute. J. Kalnitz. 2,417,168; Mar. 11.  
 Harness, Pole climbing. J. E. Hare. 2,428,075; Sept. 30.  
 Harness, Rescue. V. L. Beehler. 2,413,903; Jan. 7.  
 Harness, Snowshoe. J. A. L. Nadeau. 2,420,261; May 6.  
 Harrow and bearing therefor, Disk. C. H. White. 2,421,306; May 27.  
 Harrow, Disk. W. F. McMahon. 2,420,437; May 13.  
 Harrow, Offset disk. R. H. Mitchell. 2,433,816; Dec. 30.  
 Harrow with transport means, Disk. J. F. Brundage. 2,421,772; June 10.  
 Harrow with yielding bars. T. A. Barrentine. 2,429,013; Oct. 14.  
 Harvester. G. B. Hill. 2,431,477; Nov. 25.  
 Harvester, Beet. L. Andrus. 2,421,534; June 3.  
 Harvester, Beet. J. B. Bingham, T. H. Herberg and O. A. Holkesvig. 2,429,743; Oct. 28.  
 Harvester, Beet. C. Christiansen. 2,418,575; Apr. 8.  
 Harvester, Beet. R. C. Zuckerman. 2,428,904; Oct. 14.  
 Harvester, Corn. I. E. Dorschner. 2,420,470; May 13.  
 Harvester for cutting standing corn stalks and removing ears therefrom. A. E. W. Johnson. 2,427,861; Sept. 23.  
 Harvester, Peanut. F. T. Blaydes. 2,417,905; Mar. 25.  
 Harvester, Peanut. C. L. Carelock. 2,424,148; July 15.  
 Harvester support mechanism. H. D. Hume. 2,413,873; Jan. 7.  
 Harvester-thresher. C. J. Scranton and R. L. Worrell. 2,433,162; Dec. 23.  
 Harvester-thresher, Combination. W. F. MacGregor. 2,430,298; Nov. 4.  
 Harvester with toppler and top conveyor, Beet. C. W. Walz, C. T. Rasmussen, and H. F. Clausen. 2,433,799; Dec. 30.  
 Harvester with toppler, Beet. W. G. Briggs. 2,430,665; Nov. 11.  
 Harvester with vine lifter, Potato. H. E. Miller. 2,416,937; Mar. 4.  
 Harvesting mechanism. C. C. Jackson. 2,417,500; Mar. 18.  
 Harvesting, topping, trimming, and cleaning machine, Beet. F. Braun. 2,422,524; June 17.  
 Hasp-type fastener. B. R. Thiele. 2,430,311; Nov. 4.  
 Hat. C. E. Dowdakin. 2,427,391; Sept. 16.  
 Hat. H. S. Lazarus. 2,428,937; Oct. 14.  
 Hat. H. F. Ryniker. 2,417,616; Mar. 18.  
 Hat. R. Severin. 2,421,654; June 3.  
 Hat blocking machine structure. B. D. Wells. 2,424,525; July 22.  
 Hat protector. S. P. Oppenheimer. 2,424,414; July 22.  
 Hat rest. E. A. Amen. 2,416,464; Feb. 25.  
 Hat, Safety. H. B. Lewis. 2,415,214; Feb. 4.  
 Hat, Safety. H. B. Lewis. 2,416,529; Feb. 25.  
 Hat shaping form, Adjustable. V. R. Pascale. 2,432,930; Dec. 16.  
 Hatch construction for railway car roofs. J. S. Swann. 2,421,660; June 3.  
 Hatch cover. D. Hess. 2,423,384; July 1.  
 Hattling fur treatment. J. F. Melody. 2,429,476; Oct. 21.  
 Hauling device. L. Jones. 2,424,694; July 29.  
 Hauling vehicle. J. T. Rogers. 2,425,953; Aug. 19.  
 Haversack. D. P. Ryan. 2,423,853; July 15.  
 Hay sling. L. F. O'Brien. 2,431,194; Nov. 18.  
 Hay stacker. H. I. Ostlund. 2,423,946; July 15.  
 Haystacker attachment for tractors. A. R. Henry. 2,426,687; Sept. 2.  
 Hay unloader with extended side wall base and reciprocable bottom forming member. P. Arvidson. 2,432,852; Dec. 16.  
 Hay unloading apparatus. M. O. Souza. 2,423,732; July 8.  
 Head arrangement for magnetic recorders, Magnetizing and erasing. M. Camras. 2,418,542; Apr. 8.  
 Headband for industrial headgear, Adjustable. W. I. Staaf. 2,419,661; Apr. 29.  
 Head for abrasives, Expanding. O. S. De Haven. 2,432,731; Dec. 16.  
 Head for magnetic telegraphones, Reproducing. W. E. Newman. 2,423,339; July 1.  
 Head for shuffleboard cues. E. J. von Pein. 2,433,496; Dec. 30.  
 Headgear. E. Cairns. 2,431,678; Dec. 2.  
 Headgear. W. R. P. Delano. 2,418,069; Mar. 25.  
 Headgear, Protective. J. F. Dauster. 2,420,937; May 20.



- Headlamp construction. E. T. Gregorie and M. Regitko. 2,431,641; Nov. 25.
- Headlight adapter. D. M. Morgenstern. 2,423,153; July 1.
- Headlight control. Automobile. A. B. Friedman. 2,431,394; Nov. 25.
- Headlight system, Auxiliary. B. Tabacchi. 2,427,076; Sept. 9.
- Headlighting system for automotive vehicles, Polarized. C. J. T. Young. 2,433,503; Dec. 30.
- Headrest. C. G. Maxson. 2,429,472; Oct. 21.
- Headrest means. A. J. May and C. G. Maxson. 2,429,473; Oct. 21.
- Head space adjusting and locking means for removable firearms barrels. C. E. Simpson. 2,423,854; July 15.
- Head space gauge. A. E. Foster. 2,433,108; Dec. 23.
- Head with guide openings for braiding machines, Special. G. A. Stone. 2,419,741; Apr. 29.
- Header for electron tubes and the like and manufacture. B. S. Ellefson. 2,426,990; Sept. 9.
- Headers and tubes, Assembling. E. L. Garfield. 2,423,697; July 8.
- Hearing aid apparatus. R. E. Tresise and P. D. Kendall. 2,424,422; July 22.
- Hearing aid equipment for confessionals. N. V. Casson. 2,424,348; July 22.
- Heat and chemicals, Method of and apparatus for recovering. L. S. Wilcoxson. 2,416,462; Feb. 25.
- Heat and pressure applying device. J. Marziani. 2,414,157; Jan. 14.
- Heat detecting system. W. A. Tolson. 2,431,625; Nov. 25.
- Heat detection device. J. Evans. 2,426,494; Aug. 26.
- Heat dissipating means for electron microscopes. P. C. Smith. 2,418,321; Apr. 1.
- Heat economizer, Waste. J. S. Wallis and J. W. Throckmorton. 2,416,273; Feb. 18.
- Heat exchange apparatus. J. A. Churchill, J. F. Belalief, and C. T. Delaney. 2,423,175; July 1.
- Heat exchange apparatus, Fluid. T. C. Toomey and J. G. Brandt. 2,427,031; Sept. 9.
- Heat exchange apparatus in refrigeration systems. L. B. M. Buchanan. 2,421,773; June 10.
- Heat exchange apparatus, Plate. J. F. Belalief. 2,429,508; Oct. 21.
- Heat exchange assembly. G. R. Neumann, E. F. Farrell, and C. S. Davis, Jr. 2,420,757; May 20.
- Heat exchange cores, Bonding. L. F. M. Lee. 2,414,312; Jan. 14.
- Heat exchange element. C. B. Dalzell and E. Wyman. 2,421,245; May 27.
- Heat exchange element. N. Kramer. 2,426,107; Aug. 19.
- Heat exchange surface for air preheaters. P. H. Karlsson and J. Vickland. 2,432,198; Dec. 9.
- Heat exchange unit. R. H. Burgess. 2,431,228; Nov. 18.
- Heat exchanger. E. A. Bertram. 2,428,768; Oct. 14.
- Heat exchanger. J. W. Brown, Jr. 2,424,221; July 22.
- Heat exchanger. S. J. Budlane. 2,421,371; June 3.
- Heat exchanger. A. Y. Gunter and G. B. Farkas. 2,418,405; Apr. 1.
- Heat exchanger. W. C. Parrish. 2,418,191; Apr. 1.
- Heat exchanger. W. Radtke. 2,425,826; Aug. 19.
- Heat exchanger. W. F. Reichelderfer. 2,428,993; Oct. 14.
- Heat exchanger. G. A. Worn and E. A. Bertram. 2,432,362; Dec. 9.
- Heat exchanger. F. M. Young. 2,421,362; May 27.
- Heat exchanger, Checker brick. S. P. Kinney and L. M. Hartwick. 2,428,461; Oct. 7.
- Heat exchanger, Exhaust. H. B. Ellis. 2,428,066; Sept. 30.
- Heat exchanger, Fluid circulating. L. H. Coykendall and W. H. Rowand. 2,420,655; May 20.
- Heat exchangers having flattened tubes, Assembling. J. G. Rosales. 2,417,661; Mar. 18.
- Heat exchangers, Making. H. T. Booth. 2,415,865; Feb. 18.
- Heat exchangers, Operating sectionable. F. N. Hays. 2,429,880; Oct. 28.
- Heat guard, Welder's. W. R. Dent. 2,424,437; July 22.
- Heat indicator. A. Bak. 2,426,077; Aug. 19.
- Heat insulated receptacle. W. H. Bucknell. 2,424,434; July 22.
- Heat material in contact mass catalysis, Inert. E. J. Houdry. 2,423,835; July 15.
- Heat pump. E. N. Kemler. 2,432,316; Dec. 9.
- Heat-resistant composition. W. A. MacFarland and C. H. Cutter. 2,430,404; Nov. 4.
- Heat responsive device having separate minimum flame and normal flame responsive elements. L. W. Burch. 2,418,867; Apr. 15.
- Heat responsive indicator. R. D. Kell and W. A. Tolson. 2,422,971; June 24.
- Heat screen. H. D. Sterick and L. C. Strickland. 2,432,047; Dec. 2.
- Heat sealing. A. B. Haslacher. 2,423,237; July 1.
- Heat-sealing element. J. Cozza. 2,441,373; June 3.
- Heat sealing moistureproofing coatings. J. A. Mitchell. 2,430,726; Nov. 11.
- Heat sealing with partially hydrolyzed polyvinyl acetate. G. O. Morrison and T. P. G. Shaw. 2,424,110; July 15.
- Heat storing and dissipating apparatus for furnaces. A. Di Filippo. 2,419,710; Apr. 29.
- Heat to ironing machines, Applying. F. W. Grantham. 2,422,481; June 17.
- Heat transfer device with liquid lifting capillary surface. W. L. O'Brien. 2,426,044; Aug. 19.
- Heat transfer fins, Self-draining. V. G. Dreier. 2,427,200; Sept. 9.
- Heat transfer unit. J. Askin. 2,427,336; Sept. 16.
- Heat transfer units, Making. H. F. Brinen. 2,433,731; Dec. 30.
- Heat-treating apparatus. G. J. Maxson. 2,413,987; Jan. 7.
- Heat treating apparatus. H. E. Somes. 2,421,525; June 3.
- Heat-treating apparatus. O. J. Vanek. 2,426,718; Sept. 2.
- Heat treating, Continuous. F. S. Denneen and W. C. Dunn. 2,414,362; Jan. 14.
- Heat treating, Differential. F. S. Denneen and W. C. Dunn. 2,430,005; Nov. 4.
- Heat-treating Electroplated material. J. S. Nachtman. 2,418,087; Mar. 25.
- Heat-treating furnace. Y. R. Cornelius. 2,416,908; Mar. 4.
- Heat treating furnace. H. E. Curll and P. K. Smith. 2,420,126; May 6.
- Heat-treating of collapsible hollow articles of rubber and the like, Apparatus and process for the. H. C. Dinmore, Jr., and R. K. Fraser. 2,418,166; Apr. 1.
- Heat-treatment of electroplated strip metal. J. S. Nachtman. 2,418,088; Mar. 25.
- Heater. See—
- Air-duct electric heater. Gas fired unit heater.
  - Air heater. Gasoline burning hot-air heater.
  - Altitude compensated internal - combustion air heater. Immersion heater.
  - Apertured reflector panel electric-heater. Internal-combustion airplane heater.
  - Boiler and hot-water heater. Internal-combustion heater.
  - Displacement electric water heater. Liquid heater.
  - Downdraft magazine heater. Low-voltage rivet heater.
  - Downflow forced draft air heater. Pebble heater.
  - Electric heater. Portable ring type heater.
  - Electric immersion heater. Railway track heater.
  - Electric laboratory heater. Ramified tubular gas heater.
  - Electric room heater. Self-operated forced air heater.
  - Electric tank water heater. Space heater.
  - Electric water heater. Storage battery electric heater.
  - Electrical contact heater. Vacuum car heater.
  - Electrically heated multiple-coil water heater. Wall - mounted ram - type aircraft heater.
  - Float type water heater. Water heater.
  - Fluid fuel internal-combustion air heater.
  - Forced draft hot-air heater.
- Heater. E. V. Bergstrom and E. Utterback. 2,432,503; Dec. 16.
- Heater. W. A. Bulger. 2,419,626; Apr. 29.
- Heater. D. K. Dean. 2,432,985; Dec. 23.
- Heater. H. H. Fleer. 2,414,147; Jan. 14.
- Heater. E. E. Hans. 2,422,831; June 24.
- Heater. B. Leonard. 2,419,575; Apr. 29.
- Heater and an apparatus and method for making the same, Flexible electric. D. B. MacKendrick. 2,423,196; July 1.
- Heater and battery charger, Combined electric resistance. P. G. Caldwell. 2,427,713; Sept. 23.
- Heater and grill, Combined space. G. Van Daam. 2,422,450; June 17.
- Heater and manufacturing it, Electrical. G. H. Morey. 2,419,848; Apr. 29.
- Heater and vaporizer, Electric. C. Libman and W. A. Gribble. 2,426,939; Sept. 2.
- Heater control. C. W. Klug. 2,241,565; June 3.
- Heater for cooking containers, Combustion tube. F. W. and C. L. Holderle. 2,431,753; Dec. 2.
- Heater for cooking utensils, Electric. J. H. Grayson. 2,430,715; Nov. 11.
- Heater for frost shields, Electric. W. F. Auger. 2,431,673; Dec. 2.
- Heater for heating air, Cast internal-combustion. H. J. DeN. McCollum. 2,417,315; Mar. 11.
- Heater for heating air, Self-operated, internal-combustion. H. J. DeN. McCollum. 2,414,830; Jan. 28.
- Heater for high temperature reactions and conversions. D. G. Brandt. 2,431,632; Nov. 25.
- Heater for internal-combustion engines, Electric fuel. G. H. Kruschke. 2,433,374; Dec. 30.
- Heater for livestock watering tanks, Electric. R. E. Brodie. 2,430,272; Nov. 4.
- Heater for use with portable tanks, Movable. J. L. Breese. 2,428,696; Oct. 7.
- Heater for water-cooled engines. J. A. Gaschnitz. 2,423,378; July 1.
- Heater having air temperature responsive ignition control, Air. H. J. D. McCollum. 2,418,182; Apr. 1.
- Heater having means for diverting and igniting a fuel air mixture. H. J. De N. McCollum. 2,417,604; Mar. 18.
- Heater having means to re-circulate cooled gases, Hot-air. H. J. D. McCollum. 2,424,765; July 29.
- Heater having thermostatic control and signal means, Electric. F. W. Riddington. 2,424,504; July 22.



- Heater of the fan type, Electric. H. E. Trent. 2,429,733; Oct. 28.
- Heater system. S. E. Heymann. 2,428,078; Sept. 30.
- Heater unit for toasters. R. E. Barclay. 2,414,082; Jan. 14.
- Heater with air-driven fuel pump, Aircraft. H. J. DeN. McCollum. 2,418,720; Apr. 8.
- Heater with muffler, Lightweight aircraft. S. E. Heymann. 2,429,514; Oct. 21.
- Heater with spiral type heat exchanger, Internal-combustion. W. C. Parrish. 2,432,929; Dec. 16.
- Heating and air-conditioning system. F. Schneible. 2,430,890; Nov. 18.
- Heating and humidifying apparatus, Air. T. H. Garvey and P. V. Scally. 2,424,927; July 29.
- Heating and steam generating unit, Water. G. McCann. 2,427,150; Sept. 9.
- Heating apparatus. A. Barnsteiner and E. H. Lockwood. 2,414,163; Jan. 14.
- Heating apparatus. R. C. Belgan. 2,429,916; Oct. 28.
- Heating apparatus. A. Donald and J. Jacobstein. 2,418,015; Mar. 25.
- Heating apparatus. H. C. Frentzel, Jr., and E. O. Errath. 2,420,875; May 20.
- Heating apparatus. G. E. Price. 2,414,667; Jan. 21.
- Heating apparatus. H. J. DeN. McCollum. 2,414,829; Jan. 28.
- Heating apparatus, Aircraft. H. J. D. McCollum. 2,427,221; Sept. 9.
- Heating apparatus, Convection. C. M. Hamblin. 2,423,974; July 15.
- Heating apparatus, Electrical. J. D. Griffin. 2,420,535; May 13.
- Heating apparatus for brazing fillets, Induction. S. S. Schneider and W. D. Kinsman. 2,427,747; Sept. 23.
- Heating apparatus, High-frequency electric field. T. F. Peterson. 2,423,902; July 15.
- Heating apparatus switch. E. K. Clark. 2,425,030; Aug. 5.
- Heating appliance. W. A. Jones. 2,415,182; Feb. 4.
- Heating device. E. Reich. 2,430,582; Nov. 11.
- Heating element and making same. L. Reichold. 2,432,800; Dec. 16.
- Heating element, Electrical. E. L. Wiegand. 2,428,899-900; Oct. 14.
- Heating element for sheet-metal shaping machines. J. H. Watson. 2,432,463; Dec. 9.
- Heating element, Low-temperature. W. B. Driver. 2,422,477; June 17.
- Heating flame regulation. E. W. Deck. 2,416,161; Feb. 18.
- Heating, Fluid. C. B. Bayer. 2,418,815; Apr. 15.
- Heating hydrocarbons by contact with a moving granular solid. E. V. Bergstrom. 2,432,962; Dec. 16.
- Heating means, Electrical. E. J. Ries. 2,431,620; Nov. 25.
- Heating means for gear teeth, Induction. A. O. Wood. 2,428,303; Sept. 30.
- Heating means for pressing machines. J. B. Sando. 2,430,621; Nov. 11.
- Heating, Method of and apparatus for high-frequency dielectric. G. F. Russell. 2,433,067; Dec. 23.
- Heating opposed metal parts by combined induced and conducted electric currents. F. N. Darmara. 2,426,985; Sept. 9.
- Heating pad. R. W. Ogle. 2,429,583; Oct. 21.
- Heating system. L. W. Burch. 2,422,526; June 17.
- Heating system. E. R. Gillespie. 2,425,797; Aug. 19.
- Heating system. H. J. DeN. McCollum. 2,414,828; Jan. 28.
- Heating system. U. Munschak. 2,433,476; Dec. 30.
- Heating system. J. A. Wildermuth. 2,414,623; Jan. 21.
- Heating system for hair waving, Exothermic. R. L. Evans and E. G. McDonough. 2,431,220; Nov. 18.
- Heating system for pressure fluid of fluid pressure operated pumps. W. L. Albert, Jr. 2,432,079; Dec. 9.
- Heating system with alternately energized coaxial conductors, Induction. L. L. Johnson. 2,430,640; Nov. 11.
- Heating unit comprising coaxially arranged conductors, Inductive. H. A. Strickland, Jr. 2,418,675; Apr. 8.
- Heating unit, Electric. M. M. Greer. 2,423,184; July 1.
- Heating unit, Electric. C. J. Weinhardt. 2,422,057; June 10.
- Heating unit, Electric range. V. G. Vaughan. 2,430,196; Nov. 4.
- Heating unit, Electric toaster. L. J. Koci. 2,419,355; Apr. 22.
- Heavy-media separation, Method and apparatus for. E. C. Bitzer. 2,428,777; Oct. 14.
- Hectograph blanket. I. Kramsky and M. J. Holik. 2,426,935; Sept. 2.
- Heel. D. W. Lauzon. 2,418,078; Mar. 25.
- Heel and making same, Shoe. A. Chodor. 2,421,923; June 10.
- Heel attaching machine. J. T. Lancaster. 2,430,061; Nov. 4.
- Heel cover turning machine. F. K. Pfeiffer and W. J. Grenier. 2,429,894; Oct. 28.
- Heel, Detachable shoe. T. Gilmour. 2,431,868; Dec. 2.
- Heel, Detachable shoe and boot. E. H. Levine. 2,421,792; June 10.
- Heel fashioning mechanism for straight knitting machines. E. M. Zesch. 2,432,108; Dec. 9.
- Heel for shoes, Orthopedic. C. A. Roberts. 2,417,127; Mar. 11.
- Heel insert and heel, Shoe. N. Chiodo. 2,420,770; May 20.
- Heel, Rubber. A. Monti. 2,418,896; Apr. 15.
- Heel seat fitting machine. J. W. Ashley. 2,423,136; July 1.
- Heel seat fitting machine. J. T. Lancaster. 2,423,149; July 1.
- Heel, Shoe. W. W. Brooks. 2,423,753; July 8.
- Heel, Shoe. J. H. Buechler. 2,419,670; Apr. 29.
- Heel support. N. Barnett. 2,414,707; Jan. 21.
- Heel, Walking. J. J. Ettinger. 2,427,951; Sept. 23.
- Heel with shank supporting extension, Rubber. H. H. Pifer. 2,432,680; Dec. 16.
- Heels, Rebuilding worn rubber. F. W. Phillips. 2,420,187; May 6.
- Height finder, Multistation. E. W. Chafee. 2,426,596; Sept. 2.
- Height increasing device for footwear. J. and A. H. Adler. 2,433,329; Dec. 30.
- Helical thread resistors, Making. J. L. Rector. 2,416,347; Feb. 25.
- Helicopter. H. B. Frasher. 2,415,999; Feb. 18.
- Helicopter. R. R. Hays. 2,420,823; May 20.
- Helicopter. C. G. Pullin. 2,429,646; Oct. 28.
- Helicopter. R. C. Sights. 2,422,441; June 17.
- Helicopter antitorque and steering control. J. C. Trotter. 2,427,982; Sept. 23.
- Helicopter antitorque propeller system. E. Bossi. 2,415,622; Feb. 11.
- Helicopter flying apparatus. C. H. Zimmerman. 2,417,896; Mar. 25.
- Helicopter having folding rotor. E. H. Page. 2,424,769; July 29.
- Helicopter having means for adjusting the center of gravity and the lift rotor axis thereof. M. Swaab. 2,428,475; Oct. 7.
- Helicopter-kite means, Captive. A. M. Young. 2,429,502; Oct. 21.
- Helicopter navigation light. E. R. Stewart. 2,423,528; July 8.
- Helicopter rotor with blade-balancing mechanism. E. A. Stalker. 2,425,650; Aug. 12.
- Helicopter with antitorque propeller. A. E. Larsen. 2,420,784; May 20.
- Helicopter with laterally disposed lift rotors. W. L. Raschke. 2,420,796; May 20.
- Helix feed lipstick holder. A. S. Mackey. 2,432,998; Dec. 23.
- Helmet. J. A. Mercer. 2,416,062; Feb. 18.
- Helmet construction. G. A. Lyon. 2,421,633; June 3.
- Helmet, Safety. A. J. Ostli. 2,421,643; June 3.
- Helmet, Welder's. S. C. Hurley, Jr. 2,423,320; July 1.
- Helmet, Welder's. H. R. Madson. 2,416,764; Mar. 4.
- Helmet, Welder's. R. T. Shields. 2,433,164; Dec. 23.
- Helmet with flexible inner wall, Hair drying. A. M. Andrews. 2,416,788; Mar. 4.
- Helmet's, Making. Le G. Daly. 2,423,076; July 1.
- Hemimellitene, Recovery of. S. F. Birch and R. A. Lowry. 2,419,247; Apr. 22.
- Hemming attachment for automatic feeding and sewing machine. H. Gensheimer. 2,419,068; Apr. 15.
- Heptafluoromonochlorocyclobutane and making same. P. L. Barriek. 2,427,116; Sept. 9.
- Hermetically sealed container. C. H. Larson. 2,417,764; Mar. 18.
- Heterocyclic nitrogen base mixtures, Resolution of. K. H. Engel. 2,420,529; May 13.
- Heterocyclic nitrogen compounds, Resolution of mixtures of. K. H. Engel. 2,421,413; June 3.
- Hexachlorethane, Production of. G. B. Stratton. 2,420,801; May 20.
- Hexamethylenetetramine fuel pellet, Manufacturing. J. W. Speaker. 2,432,347; Dec. 9.
- High altitude flying unit. M. J. Richou. 2,417,177; Mar. 11.
- High-frequency apparatus. A. E. Falk. 2,423,968; July 15.
- High-frequency apparatus utilizing electron debunching. R. H. Varian and M. Relson. 2,414,843; Jan. 28.
- High-frequency circuit. G. Reber. 2,423,797; July 8.
- High-frequency coupling circuit. W. M. Kellogg. 2,416,322; Feb. 25.
- High-frequency current, Metering. J. A. Frabutt. 2,429,614; Oct. 28.
- High-frequency electric discharge device. L. D. Roberts. 2,426,656; Sept. 2.
- High-frequency electric discharge device. D. A. Wilbur and L. D. Roberts. 2,426,655; Sept. 2.
- High-frequency electronic tube. D. H. Sloan. 2,424,002; July 15.
- High-frequency generator. G. Milburn and W. H. Schnacke. 2,417,880; Mar. 25.
- High-frequency heating apparatus. J. P. Jordan. 2,429,819; Oct. 28.
- High-frequency resonator-tube. W. W. Hansen. 2,420,314; May 13.
- High-frequency spark circuit. H. Benioff. 2,417,052; Mar. 11.
- High-frequency tube structure. A. E. Harrison and S. F. Varian. 2,414,785; Jan. 21.
- High-frequency wave meter. O. E. Dow. 2,419,126; Apr. 15.
- High molecular weight glycols. H. A. Bruson and W. D. Niederhauser. 2,415,335; Feb. 4.



- High-pressure diaphragm relief valve. T. A. St. Clair. 2,416,855; Mar. 4.
- High-pressure pump. M. Wells. 2,427,889; Sept. 23.
- High-speed high-pressure vacuum pump. J. H. Cox, D. L. Hopper, and A. P. Colaiaco. 2,432,226; Dec. 9.
- High-speed motor. W. C. Robinette. 2,421,355; May 27.
- High-temperature cracking apparatus. W. F. Fulton. 2,418,506; Apr. 8.
- High temperature electrically-heated furnace. S. H. Stupakoff. 2,417,953; Mar. 25.
- High-voltage cable. R. B. Norton. 2,415,652; Feb. 11.
- Highway light. T. W. Allmond. 2,432,977; Dec. 23.
- Hinge. H. L. Apfelbaum. 2,429,447; Oct. 21.
- Hinge, Adjustable door. G. Bushko. 2,427,384; Sept. 16.
- Hinge and latch structure, Collapsible table leg. F. M. Overbey. 2,425,162; Aug. 5.
- Hinge construction. P. M. Christensen. 2,431,607; Nov. 25.
- Hinge construction. O. E. Norberg. 2,432,925; Dec. 16.
- Hinge, Door. R. McGiff. 2,430,942; Nov. 18.
- Hinge, Extension. F. L. Talcott, Jr. 2,433,305; Dec. 23.
- Hinge, Floor rack. V. E. West. 2,425,908; Aug. 19.
- Hinge mounting. G. D. Pagon. 2,421,960; June 10.
- Hinge, Sofa bed. R. Coopersmith. 2,429,260; Oct. 21.
- Hinged light. J. C. F. Trewren. 2,425,846; Aug. 19.
- Hip boot hanger. A. T. Hanson. 2,428,074; Sept. 30.
- Hitch for plows, Tractor. A. E. Rutter. 2,430,143; Nov. 4.
- Hitch for tractor propelled agricultural implement, Shifting. W. N. Olson. 2,416,207; Feb. 18.
- Hitch for tractors, Implement. R. Heath. 2,417,595; Mar. 18.
- Hitch for vehicles, Draft. G. Jones. 2,428,226; Sept. 30.
- Hitch pin holder. A. Shelstad. 2,423,799; July 8.
- Hitch release. J. D. Dunn. 2,414,725; Jan. 21.
- Hitch, Ski binding. E. H. Carroll. 2,425,993; Aug. 19.
- Hitch, Tractor. H. E. Altgelt. 2,417,624; Mar. 18.
- Hitch, Tractor. K. Wilson. 2,425,449; Aug. 12.
- Hitch, Trailer. R. J. Bennett. 2,429,544; Oct. 21.
- Hitch, Vehicle trailer. R. C. Townsend. 2,414,248; Jan. 14.
- Hob and method of hobbing. C. D. Barnard and M. C. Halvorsen. 2,414,790; Jan. 28.
- Hobbyhorse. H. C. Dollar. 2,425,517; Aug. 12.
- Hobbyhorse. A. J. Fleury. 2,422,347; June 17.
- Hoe. J. H. Cumpston. 2,421,600; June 3.
- Hoe and the like, Trench. V. L. Schield. 2,416,409; Feb. 25.
- Hoe, Rotary. G. E. Karl. 2,419,717; Apr. 29.
- Hoe, Tractor grape. E. Best. 2,419,331; Apr. 22.
- Hoist. H. R. Johnson. 2,430,340; Nov. 4.
- Hoist. W. J. Kersenbrock and W. W. Riley. 2,419,145; Apr. 15.
- Hoist. F. P. Lawler. 2,418,267; Apr. 1.
- Hoist. E. B. Thompson. 2,423,954; July 15.
- Hoist. M. Wooldridge. 2,425,663; Aug. 12.
- Hoist and jack, Combination. J. J. Uhlenkott. 2,426,717; Sept. 2.
- Hoist and transport apparatus. H. H. Gilbert. 2,427,667; Sept. 23.
- Hoist, Chain. G. E. Moore and R. E. Smith. 2,426,112; Aug. 19.
- Hoist control, Alternating current. W. R. Wickerham. Re. 22,923; Sept. 30.
- Hoist control means. R. C. Osgood. 2,427,471; Sept. 16.
- Hoist, Differential. L. Foote. 2,420,072; May 6.
- Hoist, Manually operated. J. J. Hite. 2,417,199; Mar. 11.
- Hoist mechanism, Truck. E. J. Abbe. 2,419,938; May 6.
- Hoisting indicator. J. Charwinsky. 2,414,092; Jan. 14.
- Holder: See—Continued.
- Nursing bottle holder.
- Paint brush holder.
- Paper dish holder.
- Paper holder.
- Paper roll holder.
- Photographic plate holder.
- Piezo-electric crystal holder.
- Plate holder.
- Plunger type electrode holder.
- Pocket clipping key holder.
- Quartz crystal holder.
- Refuse bag holder.
- Rod holder.
- Rotary lipstick holder.
- Sack holder.
- Safe smoke pipe holder.
- Saw holder.
- Holder. C. K. Edwards. 2,432,611; Dec. 16.
- Holder and carrier, Bottle. M. W. Bowersox. 2,418,571; Apr. 8.
- Holder and carrier, Golf equipment. A. V. Apblett and J. E. Bain. 2,428,954; Oct. 14.
- Holder and dispenser for toothpicks. C. E. Johnson. 2,414,230; Jan. 14.
- Holder and display device, Christmas tree. W. A. Rount. 2,416,802; Mar. 4.
- Holder and disposal receptacle, Combination tissue. E. G. Gui. 2,415,588; Feb. 11.
- Holder and finger guard, Nail and tack. I. D. Davis. 2,420,869; May 20.
- Holder and fly tying vise, Fishing rod. G. L. Hamre. 2,416,828; Mar. 4.
- Holder and guard, Grill hone. T. P. O'Brien. 2,430,991; Nov. 18.
- Holder and match receptacle, Combined cigarette package. J. B. Nethercutt. 2,418,658; Apr. 8.
- Holder and replaceable blade, Blade. I. Sloman. 2,432,345; Dec. 9.
- Holder and sharpener for kitchen knives, Combination. L. M. Simonson. 2,425,571; Aug. 12.
- Holder and shield, Electrode. R. K. Hopkins. 2,419,139; Apr. 15.
- Holder and steady arm, Combination tool. R. C. Gaylord. 2,420,945; May 20.
- Holder and support, Sign. B. F. Bloss. 2,421,741; June 10.
- Holder and warmer for liquid containers. S. J. Mustain. 2,419,416; Apr. 22.
- Holder assembly, Crystal. S. A. Bokovoy and K. K. Garrison. 2,423,081; July 1.
- Holder assembly for gas cutting or welding machines, Torch. J. D. McKiernan. 2,416,399; Feb. 25.
- Holder assembly, Specimen. J. Hillier. 2,421,696; June 3.
- Holder assembly, Specimen. P. C. Smith, F. E. Runge, and E. G. Dornfield. 2,421,722; June 3.
- Holder, date dial, and photo locket, Combination coin. J. Herck. 2,422,678; June 24.
- Holder for abrasive material. W. Lamb and C. W. Hood. 2,430,060; Nov. 4.
- Holder for articles. O. L. Swanson. 2,422,051; June 10.
- Holder for brush making machines, Work. C. Jobst. 2,423,499; July 8.
- Holder for brushes and other articles, Magnetic. A. E. Lookholder. 2,414,653; Jan. 21.
- Holder for carbon papers. H. W. Wrigley. 2,432,363; Dec. 9.
- Holder for charts. E. E. Goodspeed. 2,420,947; May 20.
- Holder for cigar lighters. A. A. Johnson. 2,419,950; May 6.
- Holder for dyeing apparatus, Hollow wound package. M. W. Reno and J. E. Dougherty. 2,431,280; Nov. 18.
- Holder for etching electrodes. F. B. Squires. 2,422,265; June 17.
- Holder for front fork of bicycles. A. A. R. Fastborg. 2,415,735; Feb. 11.
- Holder for hand carried luggage, Insertable clothes. J. Riess. 2,430,030; Nov. 4.
- Holder for ironing boards, Electric cord. C. Borgolte. 2,431,164; Nov. 18.
- Holder for lipstick or the like, Sleeveless expellant. J. W. Anderson. 2,419,526; Apr. 29.
- Holder for looms, Pneumatic thread. L. J. Hooper and V. F. Sepavich. 2,431,556; Nov. 25.
- Holder for looms, Pneumatic thread. R. G. Turner. 2,427,538; Sept. 16.
- Holder for meat grinders and the like, Knife. E. May. 2,431,267; Nov. 18.
- Holder for motion-picture cameras, Magazine. T. S. Briskin and J. Golick. 2,418,331; Apr. 1.
- Holder for papers, Folding. J. N. Fistell. 2,431,472; Nov. 25.
- Holder for polishing machines, Work. J. J. Manderscheid, J. Ratkovich, and V. Kovacic. 2,422,430; June 17.
- Holder for rolls of toilet paper. J. M. Hancock. 2,416,580; Feb. 25.
- Holder for test tubes. M. D. Barnes. 2,429,305; Oct. 21.
- Holder for towels and the like. N. W. Moorefield. 2,430,238; Nov. 4.
- Holder or pin cushion. R. D. Williams. 2,426,329; Aug. 26.
- Scouring pad holder.
- Selector rod holder.
- Sponge rubber mop and sheet holder.
- Spur holder.
- Tennis ball can holder.
- Toilet holder.
- Toilet tissue holder.
- Tool holder.
- Toothbrush holder.
- Type holder.
- Umbrella holder.
- Variable resistance welding electrode holder.
- Welding electrode holder.
- Welding rod holder.
- Wick holder.
- Work holder.
- Combined comb and flower holder.
- Combined tube and tooth brush holder.
- Condiment holder.
- Crystal holder.
- Dielectric welding rod holder.
- Electrode holder.
- Express receipt holder.
- Fabricated brush holder.
- File or index label holder.
- Film holder.
- Fishing pole holder.
- Fishing rod holder.
- Garden hose holder.
- Helix feed lipstick holder.
- Hitch pin holder.
- Hypodermic needle holder.
- Implement holder.
- Key holder.
- Lipstick holder.
- Live bait holder.
- Machine tool holder.
- Marking implement holder.
- Memorandum holder.
- Memorandum pad holder.
- Mop holder.
- Necktie knot holder.
- Needle holder.
- Abrasive sheet holder.
- Abrasive strip holder.
- Adjustable can holder.
- Adjustable display holder.
- Adjustable mold holder.
- Adjustable skein holder.
- Automatic orthophoric split slide holder.
- Bag holder.
- Battery holder.
- Binocular magnifying lens holder.
- Bit holder.
- Bobble pin holder.
- Bobbin holder.
- Book holder.
- Bottle holder.
- Broom holder.
- Brush holder.
- Bumper card holder.
- Ceiling box holder.
- Christmas tree holder.
- Chuck tool holder.
- Cigarette holder.
- Cigarette package holder.
- Clip lock inclined baby.
- Coated abrasive strip holder.
- Coin holder.
- Collet chuck holder.



- Holder positioning and extracting device. R. K. Hohmann. 2,420,536; May 13.
- Holding appliance for nursing bottles. F. L. Stretz. 2,428,724; Oct. 7.
- Holding attachment for surface grinders, Work. C. W. Strong. 2,428,248; Sept. 30.
- Holding mechanism, Brake. R. A. Goepfrich. 2,414,409; Jan. 14.
- Hollow article and making the same. L. L. Greneker. 2,418,551; Apr. 8.
- Hollow articles in reinforced concrete, Construction of. A. Holter. 2,427,604; Sept. 16.
- Hollow milling machine. V. Grey. 2,416,749; Mar. 4.
- Hollow piles, Apparatus and method for producing. C. E. Zigenbein. 2,429,012; Oct. 14.
- Hollow shaped articles, Procedure and apparatus for use in vulcanizing. H. P. Schrank. 2,428,944; Oct. 14.
- Hollow structures, Forming laminated. L. J. Marhofer, W. A. Taylor, and E. L. Vidal. 2,420,488; May 13.
- Home freezer cabinet. W. E. Richard and J. H. Denny. 2,414,061; Jan. 7.
- Homing system. T. W. Chew. 2,421,012; May 27.
- Homing system. R. Proskauer and V. J. Young. 2,417,086; Mar. 11.
- Homogeneous flaked catalyst composition and its preparation. M. L. Freed. 2,424,811; July 29.
- Hone. H. C. Satterthwaite. 2,419,660; Apr. 29.
- Hone. L. O. Thrun. 2,422,759; June 24.
- Hone, Razor blade. R. D. Smith. 2,429,334; Oct. 21.
- Honey treatment. A. M. Erickson and J. D. Ryan. 2,414,290; Jan. 14.
- Honing device. J. Sunnen. 2,421,470; June 3.
- Honing device for straight razors. B. P. Smith. 2,431,624; Nov. 25.
- Honing machine. P. H. Hutchinson. 2,433,455; Dec. 30.
- Honing method and apparatus. M. C. Hutto. 2,422,418; June 17.
- Honing tool. M. N. Prange. 2,424,846; July 29.
- Hood, Automatic shake-out. E. A. Carsey and W. G. Stalker. 2,420,520; May 13.
- Hood, Chimney. J. W. Miller. 2,427,413; Sept. 16.
- Hood for aircraft, Slidable and releasable. M. J. O. Lobelle. 2,424,834; July 29.
- Hood for cooking utensils. M. Di Salino. 2,428,839; Oct. 14.
- Hood for oxygen therapy. C. J. Lambertsen and L. Godfrey. 2,418,473; Apr. 8.
- Hood for the cockpits for aeroplanes. J. Martin. 2,424,245; July 22.
- Hood for welding machines, Exhaust. D. L. Smith. 2,241,469; June 3.
- Hood, Protector. A. F. Hall. 2,432,311; Dec. 9.
- Hook—  
 Airplane arresting hook. Positive action release hook.  
 Bed hook. Quick detachable hook.  
 Cable hook. Quick disconnect hook.  
 Disappearing hanger hook. Quick release hook.  
 Metal hook. Self-locking hook.  
 Mud hook. Signal snap hook.  
 Pelican hook. Tailless airplane arresting hook.  
 Pintle hook. Whiffletree hook.  
 Pivotal mounted safety hook.
- Hook and eye, Tamperproof. N. R. Schwartz. 2,426,793; Sept. 2.
- Hook for air pickup systems and the like, Contact. C. R. Gottschall. 2,433,448; Dec. 30.
- Hook for aircraft, Telescoping-retracting. J. R. Clark. 2,419,438; Apr. 22.
- Hook for coupling devices, Pintle. W. J. Tierney. 2,426,532; Aug. 26.
- Hook for holding clotheslines or the like. C. C. Wester. Sr. 2,423,536; July 8.
- Hook for sewing machines, Rotary. M. G. Ivandick. 2,428,027; Sept. 30.
- Hook for stockings, Mending. J. V. Maillet. 2,418,417; Apr. 1.
- Hook retracting mechanism, Arresting. D. S. Sanborn and E. A. Kops. 2,428,654; Oct. 7.
- Hook seam container and closure joint. W. J. Taylor and J. Coyle. 2,432,835; Dec. 16.
- Hoop, Barrel. E. P. Holder. 2,418,260; Apr. 1.
- Hoop lug. R. G. De La Mater. 2,429,454; Oct. 21.
- Hop picking fingers. W. E. Rivard and F. Morford. 2,428,321; Sept. 30.
- Hop picking machine, Stationary type. F. F. Dauenhauer. Re. 22,889; June 17.
- Hopper for packaging scales, Rotary. R. O. Bradley and G. W. Walther. 2,427,190; Sept. 9.
- Horizon, Artificial. E. J. Noble. 2,422,120; June 10.
- Hormone intermediates and preparation of the same, Steroidal. R. E. Marker. 2,420,489; May 13.
- Hormone preparation and making the same, Circulatory. A. Lesuk. 2,424,401; July 22.
- Horn, Airplane. C. Adler, Jr. 2,432,078; Dec. 9.
- Horn, Electromagnetic. W. L. Barrow. 2,425,716; Aug. 19.
- Horse, Mechanical. S. Belz. 2,423,474; July 8.
- Hose connection. H. Trevasakis. 2,431,522; Nov. 25.
- Hose coupling. G. A. Borg. 2,426,590; Sept. 2.
- Hose coupling. F. E. Hansen. 2,433,119; Dec. 23.
- Hose coupling. G. E. White. 2,421,228; May 27.
- Hose coupling. H. W. Trevasakis. 2,416,657; Feb. 25.
- Hose couplings, Making. L. Edelmann. 2,430,921; Nov. 18.
- Hose end. A. J. Weatherhead, Jr. 2,432,598; Dec. 16.
- Hose guide, Swinging. O. D. Hitt. 2,422,353; June 17.
- Hose protector. G. Beckwith. 2,432,648; Dec. 16.
- Hose supporter. G. W. Harlan. 2,415,008; Jan. 28.
- Hose, Toeless. M. I. Ruth. 2,424,056; July 15.
- Hosiery and making same, Circular knit. H. N. Sheppard. 2,431,204; Nov. 18.
- Hosiery and making the same. G. F. Lang. 2,416,331; Feb. 25.
- Hosiery drier. C. M. Otis. 2,413,994; Jan. 7.
- Hosiery drying form. A. S. Mann. 2,433,470; Dec. 30.
- Hosiery form, Adjustable. F. J. Bolek. 2,429,199; Oct. 21.
- Hosiery, Fourchette toe. C. A. Lambert. 2,422,736; June 24.
- Hosiery, Method and machine for making seamless. P. L. Thurston, H. F. Hilker, and H. Welker. 2,421,816; June 10.
- Hosiery, Seamless. P. L. Thurston, H. F. Hilker, and H. Welker. 2,421,817; June 10.
- Hot bearing box detection means. L. B. Jones. 2,429,817; Oct. 28.
- Hotbox signal. J. P. Reynolds. 2,422,211; June 17.
- Hot journal alarm apparatus. G. K. Newell. 2,420,968-9; May 20.
- Hot metal mixer. J. L. Hyland. 2,424,535; July 22.
- Hot-plate with vessel-temperature control, Electric. E. K. Clark and E. Bletz. 2,427,945; Sept. 23.
- Hot top. H. P. Rees and J. Bidner. 2,426,748; Sept. 2.
- Hot-water system and control therefor. R. C. Earley and J. L. Kimball. 2,429,408; Oct. 21.
- House and partition element, Bird. H. T. Ritter. 2,417,178; Mar. 11.
- House, Knockdown miniature. E. H. Sims. 2,430,743; Nov. 11.
- House with rotary valve and seal member. P. Pootjes. 2,428,241; Sept. 30.
- Housing. H. W. Betzler. 2,414,437; Jan. 21.
- Housing and conveyor connections for screw conveyors. E. P. Escher. 2,424,810; July 29.
- Housing for electric switches. R. Popp. Re. 22,882; May 20.
- Housing for lightning arresters. R. M. Gilson. 2,415,945; Feb. 18.
- Housing for transducers, Pressure-equalizing. W. E. Gilman. 2,423,014; June 24.
- Housing for universal joints, Flexible. F. F. Miller, Jr. 2,426,701; Sept. 2.
- Housing, Generator control device. L. H. Middleton. 2,418,895; Apr. 15.
- Hub, Changeable pitch airscrew. D. R. MacAlpin. 2,417,003; Mar. 4.
- Hub construction. P. F. Hackethal. 2,420,424; May 13.
- Hub for rotary wing aircraft and the like. J. S. and E. A. Pecker. 2,432,441; Dec. 9.
- Hull, Ship. D. H. Welsh, Sr. 2,430,380; Nov. 4.
- Hulling machine, Overlapping disc-type. W. R. Kennedy. 2,430,572; Nov. 11.
- Hum elimination means. E. Toth. 2,430,894; Nov. 18.
- Humidification. O. J. Kuenhold, Sr. 2,427,359; Sept. 16.
- Humidification system with air seal means. O. J. Kuenhold, Sr. 2,427,531; Sept. 16.
- Humidifier. W. R. P. Delano. 2,424,268; July 22.
- Humidifier. G. W. Skilbeck. 2,416,885; Mar. 4.
- Humidifier, Floating electrode-wick. L. P. Warren. 2,429,112; Oct. 14.
- Humidifier for carburetors. A. Gazda. 2,422,402; June 17.
- Humidifier for oxygen gas. J. A. Heidbrink. 2,428,277; Sept. 30.
- Humidifying system water feed device. O. J. Kuenhold, Sr. 2,427,530; Sept. 16.
- Husking machine, Corn. W. R. Davies. 2,418,700; Apr. 8.
- Hydantoin, Production of. E. C. Britton, J. E. Livak, and M. F. Murray. 2,419,530; Apr. 29.
- Hydracrylamide, Preparing. M. Lichtenwalter and O. F. Wiedeman. 2,415,645; Feb. 11.
- Hydrates, Vegetable protein. R. S. Burnett and E. J. Roberts. 2,421,113; May 27.
- Hydration of gangue, Bauxite beneficiation by. R. A. Pickens. 2,421,648; June 3.
- Hydraulic apparatus. W. C. Denison, Jr. 2,427,591; Sept. 16.
- Hydraulic apparatus. F. J. Wright. 2,415,326; Feb. 4.
- Hydraulic apparatus for transmitting power from one member to another. R. K. Pepper. 2,431,076; Nov. 18.
- Hydraulic Barker. F. H. Swift. 2,422,757; June 24.
- Hydraulic brake. E. F. Loweke. 2,423,331; July 1.
- Hydraulic brake construction. L. A. Majneri. 2,414,753; Jan. 21.
- Hydraulic brake mechanism. J. E. Morton. 2,416,638; Feb. 25.
- Hydraulic brake mechanism. W. F. Penrose. 2,415,035; Jan. 28.
- Hydraulic check for looms. O. A. Kottemann. 2,433,764; Dec. 30.
- Hydraulic classifier, Inclined current. C. C. Clifford. 2,429,925; Oct. 28.
- Hydraulic concentration, Apparatus and method for. W. C. Laughlin. 2,420,180; May 6.



- Hydraulic control system. G. P. Bentley and C. A. Frische. 2,432,502; Dec. 16.
- Hydraulic coupling. T. A. Woolsey. 2,426,423; Aug. 26.
- Hydraulic coupling type of variable-speed transmission. F. R. Porter. 2,422,850; June 24.
- Hydraulic coupling with changeable volume of working fluid. A. D. Pentz. 2,424,707; July 29.
- Hydraulic drill press. J. W. Karwelt. 2,418,840-1; Apr. 15.
- Hydraulic drive. E. F. Comstock. 2,424,384; July 22.
- Hydraulic jack. R. H. Dobbs. 2,416,796; Mar. 4.
- Hydraulic jack. D. Richards. 2,420,910; May 20.
- Hydraulic jack. E. Strom. 2,417,956; Mar. 25.
- Hydraulic mechanism. J. D. Johnson. 2,415,498; Feb. 11.
- Hydraulic operating circuit for machine tools and the like. G. M. Geiger. 2,432,305; Dec. 9.
- Hydraulic operator. C. H. Bassett and E. P. De Craene. 2,415,783; Feb. 11.
- Hydraulic piston return stop. V. A. Finley. 2,417,476; Mar. 18.
- Hydraulic power system. E. J. Poitras and J. D. Tear. 2,419,792; Apr. 29.
- Hydraulic power unit. M. A. Mathys. 2,416,339; Feb. 25.
- Hydraulic press. J. L. Leder. 2,413,876; Jan. 7.
- Hydraulic pump. B. E. Folke and R. H. Shepard. 2,430,394; Nov. 4.
- Hydraulic pump. R. H. Shepard. 2,420,984; May 20.
- Hydraulic pump or motor of the radial cylinder type. W. C. Holden and J. C. Naylor. 2,426,100; Aug. 19.
- Hydraulic pumping unit. K. P. Downing. 2,432,735; Dec. 16.
- Hydraulic relief valve. J. F. Melichar. 2,415,750; Feb. 11.
- Hydraulic relief valve. A. L. Parker and D. A. Di Tirro. 2,415,258; Feb. 4.
- Hydraulic remote-control system. J. B. Van Der Werff. 2,417,278; Mar. 11.
- Hydraulic restraining mechanism for free-piston units. A. Kalitinsky. 2,414,745; Jan. 21.
- Hydraulic separation of solids. W. L. Remick. 2,417,660; Mar. 18.
- Hydraulic steering gear. E. H. Langley. 2,426,938; Sept. 2.
- Hydraulic system. W. R. Tucker. 2,431,094; Nov. 18.
- Hydraulic tappet. J. H. Hoern. 2,432,762; Dec. 16.
- Hydraulic tensile testing machine. A. J. Golick. 2,425,931; Aug. 19.
- Hydraulic testing apparatus. W. R. Tucker and W. Ernst. 2,416,858; Mar. 4.
- Hydraulic torque converters, Turbine type. S. Mayner. 2,432,115; Dec. 9.
- Hydraulic transmission and clutch. A. L. Donahew and W. H. De La Vergne. 2,420,305; May 13.
- Hydraulic valve. C. Hollerith. 2,428,278; Sept. 30.
- Hydraulically controlled dispensing pump. G. H. Palm. 2,428,035; Sept. 30.
- Hydrides, Production of alkaline earth. P. P. Alexander. 2,425,712; Aug. 19.
- Hydrides, Production of metal. P. P. Alexander. 2,425,711; Aug. 19.
- Hydrocarbon, Burning liquid. J. L. Breese and B. Hayter. 2,422,653; June 24.
- Hydrocarbon, Catalytic cracking of. M. M. Marisic. 2,428,715; Oct. 7.
- Hydrocarbon compound and making same, Tin. J. O. Harris. 2,431,038; Nov. 18.
- Hydrocarbon conversion. H. O. Folkins. 2,423,493; July 8.
- Hydrocarbon conversion. E. H. Oakley and L. F. Brooke. 2,413,777; Jan. 7.
- Hydrocarbon conversion. W. A. Schulze. 2,425,960; Aug. 19.
- Hydrocarbon conversion, Catalysts for. K. C. Edson and F. E. Fisher. 2,419,342; Apr. 22.
- Hydrocarbon conversion, Catalytic. J. D. Upham. 2,418,146; Apr. 1.
- Hydrocarbon conversion in presence of gel catalysts. C. I. Glassbrook and R. C. Hansford. 2,428,798; Oct. 14.
- Hydrocarbon conversion in the presence of a hydrogen halide and a fugitive metal halide catalyst, Effecting. S. C. Carney. 2,429,218; Oct. 21.
- Hydrocarbon conversion, Method and apparatus for. E. V. Bergstrom. 2,429,545; Oct. 21.
- Hydrocarbon conversion, Method and apparatus for. E. L. Sinclair. 2,432,344; Dec. 9.
- Hydrocarbon conversion, Method and apparatus for. E. L. Sinclair and W. A. Hagerbaumer. 2,418,672; Apr. 8.
- Hydrocarbon conversion, Method and apparatus for. E. Utterback. 2,418,679; Apr. 8.
- Hydrocarbon conversion process. C. J. Helmers. 2,416,479; Feb. 25.
- Hydrocarbon conversion process. C. W. Watson. 2,418,534; Apr. 8.
- Hydrocarbon conversion process in the presence of steam, Catalytic. W. A. Schulze and C. J. Helmers. 2,428,532; Oct. 7.
- Hydrocarbon conversion process with special arrangement of catalysts. J. A. Guyer. 2,416,003; Feb. 18.
- Hydrocarbon conversion starting up procedure, Catalytic. H. Z. Martin. 2,420,049; May 6.
- Hydrocarbon conversion system, Multistage. M. H. Arveson. 2,416,730; Mar. 4.
- Hydrocarbon conversion with Friedel-Crafts type catalyst. R. E. Waugh. 2,425,074; Aug. 5.
- Hydrocarbon conversions, Desulfurization in. J. G. Allen. 2,414,626; Jan. 21.
- Hydrocarbon conversions, Purification of metal halide catalyst in catalytic. W. E. Ross and G. J. Carlson. 2,421,524; June 3.
- Hydrocarbon cracking catalyst with normally gaseous olefins, Pretreatment of reactivated. C. E. Moser. 2,425,482; Aug. 12.
- Hydrocarbon distillates, Refining. C. E. Adams and T. B. Tom. 2,413,938; Jan. 7.
- Hydrocarbon extraction process. D. C. Bond and M. Savoy. 2,428,695; Oct. 7.
- Hydrocarbon feed stock with a solution comprising aryl sulfonic acid, Treating a. G. H. Shipley, Jr. and G. W. Wilson, Jr. 2,428,686; Oct. 7.
- Hydrocarbon fluids, Treating. J. M. Graham, E. J. Gohr and C. W. Tyson. 2,429,127; Oct. 14.
- Hydrocarbon fluids, Treating. H. J. Hall. 2,421,614; June 3.
- Hydrocarbon fluids, Treating. J. E. Moise. 2,420,900; May 20.
- Hydrocarbon fluids, Treating. R. M. Shepardson. 2,421,615; June 3.
- Hydrocarbon fractions at substantially wellhead pressure, Recovering desirable petroleum. L. S. Reid. 2,423,156; July 1.
- Hydrocarbon fuels. W. A. Proell. 2,422,566; June 17.
- Hydrocarbon, Manufacture of a polycyclic. W. J. Mattox. 2,420,143; May 6.
- Hydrocarbon mixture which is contaminated by small amounts of organic fluorine compounds, Treating. C. B. Linn. 2,428,753; Oct. 7.
- Hydrocarbon mixtures, Refining. F. Martin, W. Gottschall and H. Velde. 2,422,627; June 17.
- Hydrocarbon mixtures using hydrocarbon solvents, Extractive distillation of. A. C. McKinnis. 2,433,286; Dec. 23.
- Hydrocarbon oil, Acid refining of viscous. D. M. McCormick, C. B. Barbour, and W. K. Griesinger. 2,418,784; Apr. 8.
- Hydrocarbon oil, Catalytic conversion of. W. A. Schulze and C. J. Helmers. 2,415,537; Feb. 11.
- Hydrocarbon oil, Catalytic conversion of. W. A. Schulze and C. J. Helmers. 2,416,023; Feb. 18.
- Hydrocarbon oil, Compounded. J. T. Rutherford and R. J. Miller. Re. 22,829; Jan. 14.
- Hydrocarbon oil concentrates of barium sulfonates, Producing. F. M. Watkins and T. A. Hack. 2,426,540; Aug. 26.
- Hydrocarbon oil, Process and apparatus for the catalytic cracking of a. E. F. Chandler. 2,423,637; July 8.
- Hydrocarbon oil, Treatment of. G. H. Evans, F. T. Klopsch, and D. M. McCormick. 2,428,067; Sept. 30.
- Hydrocarbon oil with a sludge-forming reagent, Refining. V. L. Chechot. 2,427,589; Sept. 16.
- Hydrocarbon oil with silica-magnesia catalyst, Cracking. C. L. Thomas. 2,432,634; Dec. 16.
- Hydrocarbon oils and emulsions thereof, Emulsifiable. G. W. Gregg. 2,423,144; July 1.
- Hydrocarbon oils, Catalytic conversion of. W. J. Degnen. 2,417,973; Mar. 25.
- Hydrocarbon oils, Catalytic conversion of. du B. Eastman and C. Richker. 2,414,256; Jan. 14.
- Hydrocarbon oils, Catalytic conversion of. E. D. Reeves and J. C. Munday. 2,416,217; Feb. 18.
- Hydrocarbon oils, Catalytic cracking of. E. J. Gohr, D. L. Campbell, J. M. Graham, and W. I. Thompson. 2,420,534; May 13.
- Hydrocarbon oils, Catalytic treatment of. C. E. Hemminger and E. J. Gohr. 2,421,618; June 3.
- Hydrocarbon oils, Catalytic treatment of. P. L. Veltman. 2,415,716; Feb. 11.
- Hydrocarbon oils, Conversion of. J. E. Ahlberg and C. L. Thomas. 2,428,257; Sept. 30.
- Hydrocarbon oils, Conversion of. B. S. Greensfelder, H. H. Voge and G. M. Good. 2,431,243; Nov. 18.
- Hydrocarbon oils, Conversion of. R. N. Meinert and P. H. Holt. 2,419,323; Apr. 22.
- Hydrocarbon oils, Conversion of. E. D. Reeves. 2,421,651; June 3.
- Hydrocarbon oils, Conversion of. W. E. Spicer and J. A. Pierce. 2,431,206; Nov. 18.
- Hydrocarbon oils, Conversion of. W. J. Sweeney. 2,417,527; Mar. 18.
- Hydrocarbon oils, Conversion of. W. J. Sweeney. 2,426,903; Sept. 2.
- Hydrocarbon oils, Conversion of. C. W. Tyson. 2,427,112; Sept. 9.
- Hydrocarbon oils, Cracking. S. C. Fulton, C. O. Tongberg, and E. D. Reeves. 2,417,867; Mar. 25.
- Hydrocarbon oils, Cracking of. C. W. Tyson. 2,420,632; May 13.
- Hydrocarbon oils, Desulfurizing. J. C. Ernest. 2,421,320; May 27.
- Hydrocarbon oils, Fluid catalytic conversion of. J. H. Hirsch. 2,423,833; July 15.
- Hydrocarbon oils, Prevention of foaming of. H. A. Ambrose. 2,416,360; Feb. 25.
- Hydrocarbon oils, Prevention of foaming of. C. E. Trautman and H. A. Ambrose. 2,416,503-4; Feb. 25.
- Hydrocarbon oils, Purifying. C. O. Hoover. 2,418,884; Apr. 15.
- Hydrocarbon oils, Sweetening. G. W. Ayers. 2,420,218; May 6.



- Hydrocarbon or hydrocarbon mixture which is contaminated by small amounts of organic fluorine compounds, Treating. C. B. Linn. 2,428,754; Oct. 7.
- Hydrocarbon peroxides. A. Farkas and A. F. Stribley. 2,430,864; Nov. 18.
- Hydrocarbon products free from volatile sulphur compounds, Production of gaseous. C. O. Hoover. 2,423,238; July 1.
- Hydrocarbon reactions in the presence of aluminum halide-olefinic ketone complexes. H. Pines. 2,422,798; June 24.
- Hydrocarbon reforming and product thereof. J. E. Harvey, Jr., R. H. White, Jr., and J. A. Vaughan. 2,433,364; Dec. 30.
- Hydrocarbon separation by azeotropic distillation with trioxane. G. R. Lake. 2,432,771; Dec. 16.
- Hydrocarbon sols, Preparation of. M. D. Marshall. 2,433,780; Dec. 30.
- Hydrocarbon synthesis. H. E. Huber, Jr. 2,417,164; Mar. 11.
- Hydrocarbon treatment. E. C. Hughes. 2,417,415; Mar. 18.
- Hydrocarbon waxes, Producing oxidized. E. Stossel. 2,424,671; July 29.
- Hydrocarbon wood preserving impregnant, Reformed. J. E. Harvey, Jr., R. H. White, and J. A. Vaughan. 2,419,212; Apr. 22.
- Hydrocarbonaceous solids, Distillation of. G. Egloff. 2,414,586; Jan. 21.
- Hydrocarbons, Alkylation of. L. U. Franklin. 2,425,462; Aug. 12.
- Hydrocarbons, Alkylation of. F. E. Frey. 2,422,349; June 17.
- Hydrocarbons, Alkylation of. M. P. Matuszak. 2,416,013; Feb. 18.
- Hydrocarbons, Alkylation of aromatic. W. A. Schulze. 2,419,599; Apr. 29.
- Hydrocarbons, Alkylation of aryl. C. M. Thacker and R. C. Swann. 2,423,530; July 8.
- Hydrocarbons, Alkylation of cyclic. R. B. Day. 2,419,632; Apr. 29.
- Hydrocarbons, Alkylation of isoparaflinic. C. B. Linn. 2,430,181; Nov. 4.
- Hydrocarbons, Alkylation of paraffin. L. A. Clarke and E. F. Pevero. 2,430,212; Nov. 4.
- Hydrocarbons and acetone from admixtures by phase separation and azeotropic distillation, Recovery of. J. A. Patterson. 2,423,795; July 8.
- Hydrocarbons and the like, Synthesizing. H. V. Atwell. 2,433,255; Dec. 23.
- Hydrocarbons and their halogen derivatives as antifogants, Aromatic. G. E. Fallesen. 2,418,629; Apr. 8.
- Hydrocarbons at high cracking temperature, Conversion of. J. McAfee. 2,420,145; May 6.
- Hydrocarbons by extractive distillation, Segregation of olefinic. J. A. Patterson. 2,426,706; Sept. 2.
- Hydrocarbons, Catalysis of. R. E. Burk and E. C. Hughes. 2,432,505; Dec. 16.
- Hydrocarbons, Catalytic alkylation of. C. K. Buell and R. G. Boatright, Jr. 2,431,166; Nov. 18.
- Hydrocarbons, Catalytic alkylation of aromatic. W. A. Schulze and W. N. Axe. 2,425,839; Aug. 19.
- Hydrocarbons, Catalytic conversion of. J. G. Alther. 2,427,341; Sept. 16.
- Hydrocarbons, Catalytic conversion of. J. G. Alther. 2,432,644; Dec. 16.
- Hydrocarbons, Catalytic conversion of. A. Belchetz. 2,421,677; June 3.
- Hydrocarbons, Catalytic conversion of. A. D. Garrison. 2,425,463; Aug. 12.
- Hydrocarbons, Catalytic conversion of. C. E. Hemminger. 2,428,666; Oct. 7.
- Hydrocarbons, Catalytic conversion of. L. S. Kassel. 2,429,359; Oct. 21.
- Hydrocarbons, Catalytic conversion of. J. R. Meadow. 2,430,724; Nov. 11.
- Hydrocarbons, Catalytic conversion of. J. C. Munday. 2,420,558; May 13.
- Hydrocarbons, Catalytic conversion of. E. F. Nelson. 2,425,555; Aug. 12.
- Hydrocarbons, Catalytic conversion of. C. J. Plank. 2,428,741; Oct. 7.
- Hydrocarbons, Catalytic conversion of. F. E. Ray, R. Lee, and J. R. Meadow. 2,430,735; Nov. 11.
- Hydrocarbons, Catalytic conversion of. W. A. Schulze. 2,423,907; July 15.
- Hydrocarbons, Catalytic conversion of. E. L. Sinclair and W. A. Hagerbaumer. 2,418,673; Apr. 8.
- Hydrocarbons, Catalytic conversion of alkyl aromatic. H. J. Passino and H. G. McGrath. 2,425,559; Aug. 12.
- Hydrocarbons, Catalytic cracking of. W. W. Johnstone. 2,426,273; Aug. 26.
- Hydrocarbons, Catalytic cracking of. E. F. Nelson. 2,414,973; Jan. 28.
- Hydrocarbons, Catalytic cracking of partially oxidized. R. F. Ruthruff. 2,430,249; Nov. 4.
- Hydrocarbons, Catalytic cracking of petroleum. P. H. W. Agren. 2,423,674; July 8.
- Hydrocarbons, Catalytic dehydrogenation of. F. E. Frey. 2,418,255; Apr. 1.
- Hydrocarbons, Catalytic dehydrogenation of. R. L. Parker, Jr., and H. C. Huffman. 2,426,118; Aug. 19.
- Hydrocarbons, Catalytic dehydrogenation of. J. O. Smith, Jr. 2,424,636; July 29.
- Hydrocarbons, Catalytic dehydrogenation of aliphatic. E. J. Houdry. 2,419,997; May 6.
- Hydrocarbons, Catalytic isomerization of paraffinic. O. Gerbes. 2,430,979; Nov. 18.
- Hydrocarbons, Catalytic reconstruction of. F. E. Frey. 2,418,023; Mar. 25.
- Hydrocarbons, Catalytic treatment of. D. L. Campbell and H. Z. Martin. 2,431,462; Nov. 25.
- Hydrocarbons, Catalytic treatment of. H. D. Loeb. 2,432,912; Dec. 16.
- Hydrocarbons, Combination, cracking and destructive hydrogenation of. A. L. Foster. 2,415,998; Feb. 18.
- Hydrocarbons, Combined hydrogenation and dehydrogenation of. J. M. Barron. 2,416,894; Mar. 4.
- Hydrocarbons, Condensation of. V. Haensel. 2,418,028; Mar. 25.
- Hydrocarbons, Condensation of. W. A. Smith. 2,422,443; June 17.
- Hydrocarbons, Conversion of. W. L. Benedict and W. J. Mattox. 2,415,272; Feb. 4.
- Hydrocarbons, Conversion of. S. C. Eastwood. 2,419,517; Apr. 22.
- Hydrocarbons, Conversion of. L. P. Evans. 2,419,519; Apr. 22.
- Hydrocarbons, Conversion of. H. O. Folkins and C. M. Thacker. 2,415,477; Feb. 11.
- Hydrocarbons, Conversion of. F. E. Frey. 2,428,151; Sept. 30.
- Hydrocarbons, Conversion of. E. T. Layng. 2,414,206; Jan. 14.
- Hydrocarbons, Conversion of. R. J. Lee and H. O. Radford. 2,416,184; Feb. 18.
- Hydrocarbons, Conversion of. E. F. Nelson. 2,414,972; Jan. 28.
- Hydrocarbons, Conversion of. H. D. Noll. 2,420,904; May 20.
- Hydrocarbons, Conversion of. H. Pines and V. N. Ipatieff. 2,419,690; Apr. 29.
- Hydrocarbons, Conversion of. R. F. Ruthruff. 2,430,784; Nov. 11.
- Hydrocarbons, Conversion of. C. L. Thomas. 2,423,163; July 1.
- Hydrocarbons, Conversion of fluid. J. McAfee. 2,422,793; June 24.
- Hydrocarbons, Converting. W. O. Keeling. 2,431,485; Nov. 25.
- Hydrocarbons, Copolymer of vinyl aromatic. D. T. Mowry. 2,417,607; Mar. 18.
- Hydrocarbons, Cyclizing. E. T. Layng. 2,423,328; July 1.
- Hydrocarbons, Dealkylation of. R. M. Kennedy and S. J. Hetzel. 2,431,940; Dec. 2.
- Hydrocarbons, Decolorizing aromatic. J. L. Amos and K. E. Stoher. 2,431,655; Nov. 25.
- Hydrocarbons, Desulfurizing and reforming. G. G. Oberfell. 2,419,029; Apr. 15.
- Hydrocarbons from diolefin-containing mixtures, Removal of acetylenic. L. K. Frevel. 2,426,604; Sept. 2.
- Hydrocarbons from styrene with acetic acid, Azeotropic distillation of other aromatic. E. H. Smoker. 2,423,412; July 1.
- Hydrocarbons, Halogenated. M. S. Raasch. 2,424,667; July 29.
- Hydrocarbons having different degrees of saturation, Separation of. H. S. Nutting and L. H. Horsley. 2,414,761; Jan. 21.
- Hydrocarbons having more carbon atoms per molecule to aromatic hydrocarbons, Catalytic dehydroisomerization of five membered alicyclic ring. R. A. Trimble. 2,414,620; Jan. 21.
- Hydrocarbons, Hydrogenation of halogenated. V. N. Ipatieff and L. Schermerling. 2,427,791; Sept. 23.
- Hydrocarbons in presence of carbon tetrachloride and the halides and iodine, Conversion of. H. O. Folkins and C. M. Thacker. 2,416,660; Feb. 25.
- Hydrocarbons in the presence of a catalyst consisting essentially of titanila gel and boron oxide, Conversion of. J. D. Danforth. 2,425,087; Aug. 5.
- Hydrocarbons in the presence of an aluminum halide-hydrocarbon complex saturated with aluminum halide, Catalytic isomerization of saturated. J. R. Callaway. 2,417,187; Mar. 11.
- Hydrocarbons in the presence of boron fluoride and an acid fluoride of a metal, Polymerization of olefinic. C. B. Linn and V. N. Ipatieff. 2,416,106; Feb. 18.
- Hydrocarbons in the presence of catalytic cracking of hydrogen fluoride and boron fluoride. A. P. Lien, B. L. Evering, and B. H. Shoemaker. 2,427,009; Sept. 9.
- Hydrocarbons in the presence of granular coke, Cracking. M. H. Tuttle. 2,426,848; Sept. 2.
- Hydrocarbons in the presence of halogen-containing sensitizers, Cracking of. H. O. Folkins and C. M. Thacker. 2,423,494; July 8.
- Hydrocarbons in the presence of sulfuric acid, Alkylation of. J. D. Gibson and R. C. Cole. 2,430,673; Nov. 11.
- Hydrocarbons in the presence of tempering agents, HF alkylation of. F. E. Frey. 2,416,000; Feb. 18.
- Hydrocarbons in the presence of the halogen, bromine, and iodine, and a chlorinated unsaturated aliphatic organic compound, Cracking. H. O. Folkins. 2,417,105; Mar. 11.



- Hydrocarbons, Isomerization of normal paraffin. E. E. Sensel, H. V. Atwell, and A. R. Goldsby. 2,419,423; Apr. 22.
- Hydrocarbons, Isomerization of saturated. B. S. Friedman. 2,427,775; Sept. 23.
- Hydrocarbons, Isomerization of saturated. H. Pines and R. C. Wackher. 2,418,724; Apr. 8.
- Hydrocarbons, Isomerizing. S. H. McAllister, C. C. Crawford, and W. E. Ross. 2,417,698; Mar. 18.
- Hydrocarbons, Isomerizing. A. J. van Peski. 2,415,197; Feb. 4.
- Hydrocarbons, Isomerizing paraffin. P. C. Keith. 2,415,890; Feb. 18.
- Hydrocarbons, Isomerizing saturated low boiling feed. F. Horton. 2,417,201; Mar. 11.
- Hydrocarbons, Lowering the molecular weight of non-aromatic. V. Haensel and V. N. Ipatieff. 2,422,671; June 24.
- Hydrocarbons, Manufacture of polycyclic. W. J. Mattox. 2,431,763; Dec. 2.
- Hydrocarbons, Nitration of aromatic. A. E. Rout. 2,431,585; Nov. 25.
- Hydrocarbons, Polymerization of. W. B. Shanley. 2,420,327; May 13.
- Hydrocarbons, Polymerization of olefin. H. Heinemann and W. A. La Lande, Jr. 2,427,907; Sept. 23.
- Hydrocarbons, Polymerization of olefinic. V. N. Ipatieff and C. B. Linn. 2,421,946; June 10.
- Hydrocarbons, Polymerization of olefinic. C. B. Linn. 2,421,950-1; June 10.
- Hydrocarbons, Process and catalyst for aromatizing aliphatic. J. O. Smith, Jr. 2,424,637; July 29.
- Hydrocarbons, Production of. A. C. Nixon and O. L. Davis. 2,425,340; Aug. 12.
- Hydrocarbons, Production of alkylated aromatic. W. L. Benedict and W. J. Mattox. 2,418,689; Apr. 8.
- Hydrocarbons, Production of aromatic. R. M. Cole. 2,423,176; July 1.
- Hydrocarbons, Production of valuable. J. E. Harvey, Jr., R. H. White, Jr., and J. A. Vaughan. 2,433,363; Dec. 30.
- Hydrocarbons, Recovery of aromatic. J. W. Waldron. 2,419,521; Apr. 22.
- Hydrocarbons, Refining. P. H. W. Agrel. 2,422,875; June 24.
- Hydrocarbons, Reforming. J. E. Harvey, Jr., R. H. White, Jr., and J. A. Vaughan. 2,433,363; Dec. 30.
- Hydrocarbons, Stripping of spent catalyst particles in the catalytic conversion of. R. W. Krebe. 2,418,890; Apr. 15.
- Hydrocarbons, Synthesis of. E. F. Peyere, G. B. Hatch, and E. E. Sensel. 2,418,899; Apr. 15.
- Hydrocarbons, Synthesis of branched chain. W. G. Appleby, L. L. Lovell, and M. P. L. Love. 2,429,575; Oct. 21.
- Hydrocarbons, Treating. C. W. Tyson, D. L. Campbell, H. Z. Martin, and E. V. Murphree. 2,428,690; Oct. 7.
- Hydrocarbons, Treating high-molecular-weight. A. J. Holberg. 2,421,421; June 3.
- Hydrocarbons, Treatment of. J. W. Latchum, Jr. 2,414,651; Jan. 21.
- Hydrocarbons, Treatment of monocyclic olefinic. V. N. Ipatieff and H. Pines. 2,420,749; May 20.
- Hydrocarbons, Treatment of terpenic. V. N. Ipatieff and H. Pines. 2,431,756; Dec. 2.
- Hydrocarbons with a metal halide, Catalytic process for treating. O. Gerbes. 2,429,125; Oct. 14.
- Hydrocarbons with addition of acetone-methyl alcohol, Distillation of. G. A. Dummert and S. J. Ralph. 2,417,355; Mar. 11.
- Hydrocarbons with alkyl metal-free catalyst comprising silica and amphoteric oxide, Conversion of. J. R. Bates. 2,429,981; Nov. 4.
- Hydrocarbons with boron fluoride hydrate, Treatment of. W. N. Axe. 2,416,465; Feb. 25.
- Hydrocarbons with furfural-water mixtures, Extractive distillation of. V. Scarth. 2,419,039; Apr. 15.
- Hydrodynamic brake. L. R. Buckendale. 2,429,989; Nov. 4.
- Hydrofluoric acid, Purification of. R. C. Cole. 2,415,003; Jan. 28.
- Hydrofluoric acid, Purification of. M. P. Matuszak. 2,414,884; Jan. 28.
- Hydrofluoric acid resistant packing material. J. D. Covington. 2,417,351; Mar. 11.
- Hydrofluoric acid, Resolution of aqueous. M. P. Matuszak. 2,428,524; Oct. 7.
- Hydrofluoric salts of basic triarylmethane dyestuffs. A. E. Schaefer. 2,425,569; Aug. 12.
- Hydrogels, Treatment of. M. Shoeld. 2,430,145; Nov. 4.
- Hydrogen bromide catalyzed oxidation reactions, Sensitization of. F. F. Rust, J. H. Raley, and W. E. Vaughan. 2,421,392; June 3.
- Hydrogen chloride and isobutylene, Reaction between. R. P. Perkins and R. H. Rigerink. 2,418,093; Mar. 25.
- Hydrogen chloride from admixture with propane and butanes, Recovery of. S. C. Carney. 2,416,467; Feb. 25.
- Hydrogen chloride, Manufacture of. R. F. Pfennig and J. T. Horecy. 2,420,909; May 20.
- Hydrogen cyanide, Manufacture of. L. Fallows and E. V. Mellers. 2,429,262; Oct. 21.
- Hydrogen cyanide recovery. J. Mitchell, W. H. Hill, and H. A. Gollmar. 2,419,225; Apr. 22.
- Hydrogen fluoride catalyst, Recovery of. J. D. Gibson. 2,419,558; Apr. 29.
- Hydrogen fluoride from gases, Recovery of. A. B. Leonard and G. R. Hettick. 2,425,745; Aug. 19.
- Hydrogen fluoride from hydrocarbons by distillation and partial condensation, Separation of. C. G. Gerhold. 2,432,405; Dec. 9.
- Hydrogen fluoride from nonaqueous fluids and porous body for use in such process, Removal of. K. E. Long and H. W. Cromer. 2,426,558; Aug. 26.
- Hydrogen fluoride from water and organic contaminants by distillation and decantation, Separation of. G. E. McKenna and G. R. Hettick. 2,425,752; Aug. 19.
- Hydrogen fluoride from water, Removal of. A. B. Leonard. 2,417,875; Mar. 25.
- Hydrogen fluoride-hydrocarbon mixtures at constant rate, Distillation of. R. E. Vinyard. 2,417,669; Mar. 18.
- Hydrogen fluoride, Recovery of. C. C. Peavy and J. Happel. 2,426,841; Sept. 2.
- Hydrogen halide from a gaseous effluent of an isomerization process, Removal. H. H. Lee. 2,428,883; Oct. 14.
- Hydrogen peroxide, Production of. G. A. Cook. 2,416,156; Feb. 18.
- Hydrogen, Preparation of. A. T. Larson. 2,425,625; Aug. 12.
- Hydrogen production. E. V. Murphree, C. W. Tyson, D. L. Campbell, and H. Z. Martin. 2,425,754; Aug. 19.
- Hydrogen sulfide, Oxidizing. W. W. Odell. 2,415,904; Feb. 18.
- Hydrogenation, Destructive. E. V. Murphree. 2,414,889; Jan. 28.
- Hydrogenation of cuminic acid compounds, Catalytic. F. K. Signalgo and C. Sly. 2,419,093; Apr. 15.
- Hydrogenation process and apparatus. G. T. Atkins, Jr. 2,429,115; Oct. 14.
- Hydrolysis of acetone auto-condensation products. S. A. Ballard and V. E. Haurly. 2,419,051; Apr. 15.
- Hydrolyzed vinyl ester interpolymers. C. A. Sperati. 2,421,971; June 10.
- Hydrolyzing dimethyldihalogenosilanes. J. G. E. Wright. 2,426,912; Sept. 2.
- Hydronaphthalenes, Isomerization of. C. L. Thomas and H. S. Bloch. 2,428,923; Oct. 14.
- Hydrophilic colloid color formers and photographic elements containing the same. D. W. Woodward. 2,415,381; Feb. 4.
- Hydrophilic colloid-former silver halide dispersions, Preparing. A. B. Jennings. 2,422,680; June 24.
- Hydrophone. R. Black, Jr., F. F. Romanow, and O. A. Shann. 2,432,083; Dec. 9.
- Hydrophone selecting system. J. B. Retallack. 2,414,123; Jan. 14.
- Hydrophone selecting system. J. B. Retallack. 2,423,119; July 1.
- Hydrophone, Wood core magnetostriction. A. L. Thuras. 2,431,846; Dec. 2.
- Hydroplane. J. G. Bamberger. 2,422,818; June 24.
- Hydroplane. L. B. Platt, Jr. 2,423,796; July 8.
- Hydroplane boat hull form. C. D. Van Patten. 2,423,860; July 15.
- Hydropneumatic pressure system. S. H. Dorsey, A. D. Reisert, A. P. Fox, and C. H. Mueller. 2,432,609; Dec. 16.
- Hydropneumatic well pumping system. J. F. Ross. 2,414,979; Jan. 28.
- Hydropolymers, Production of. L. C. Strang. 2,422,991; June 24.
- Hydroscopic material, Packaging. W. H. Graebner and R. C. Flom. 2,415,387; Feb. 4.
- Hydrosulfides to neutral sulfur substances, Conversion of. L. C. Fetterly. 2,426,087; Aug. 19.
- Hydroturbine pump. A. J. Nelson. 2,416,538; Feb. 25.
- Hydroxy-carboxy naphthalenes. A. H. Homeyer. 2,415,884; Feb. 18.
- Hydroxy-cyanoalkyl naphthalenes. A. F. Hardman. 2,421,837; June 10.
- Hydroxy ethers, Production of aromatic. K. E. Marple, E. C. Shokal, and T. W. Evans. 2,428,235; Sept. 30.
- Hydroxylamine, Manufacture of. H. Dreyfus. 2,414,142; Jan. 14.
- Hydroxylating pot type burner. J. L. Breese. 2,421,006; May 27.
- Hydroxylating pot type hydrocarbon burner. J. L. Breese. 2,428,009; Sept. 30.
- Hydroxylation of unsaturated organic compounds containing an alcohol or ether group. N. A. Milas. 2,414,385; Jan. 14.
- Hydroxy substituted triphenyl vinyl halides. C. F. Longfellow and A. O. Jackson. 2,429,556; Oct. 21.
- Hygrometric means. E. F. Spanner. 2,427,931; Sept. 23.
- Hygroscopic liquid composition and softening paper with said composition. R. Feibelmann. 2,423,556; July 8.
- Hypochloride composition, Stable. W. S. Riggs and N. D. Peschko. 2,415,657; Feb. 11.
- Hypodermic needle holder. D. Borgeat. 2,413,858; Jan. 7.
- Hysteresis motor. L. Dewan. 2,429,807; Oct. 28.
- I-bisnorcholeic acid and producing the same, Compound of. B. Reigel, E. W. Meyer, R. W. Gouley, and J. Beiswanger. 2,427,363; Sept. 16.
- i-Inositol, Production of. M. Elkin and C. M. Meadows. 2,414,365; Jan. 14.
- Ice accumulations, Prevention or inhibiting of. W. E. Palmer. 2,431,885; Dec. 2.



- Ice bag. H. O. Marnaux. 2,415,956; Feb. 18.  
Ice block upending machine. P. H. Muller. 2,423,251; July 1.  
Ice chipper, Rotary. S. M. Udden. 2,416,422; Feb. 25.  
Ice chipping machine. A. T. Hagaman. 2,422,094; June 10.  
Ice cream and ice cream mix. I. B. Hipple and S. S. Sadtler. 2,433,276; Dec. 23.  
Ice cream and product thereof, Manufacturing. B. Nelson. 2,423,613; July 8.  
Ice Cream and the product thereof, Manufacturing. W. D. Roth, L. C. Brown, and G. W. Phelps. Re. 22,858; Mar. 25.  
Ice-cream cabinet. R. J. Sharp. 2,423,207; July 1.  
Ice cream dispensing cabinet. L. D. Fletcher. 2,418,113; Apr. 1.  
Ice cream manufacturing process and products thereof. M. Landers. 2,423,600; July 8.  
Ice creeper. M. Bozek. 2,422,335; June 17.  
Ice crusher and conveyer. F. W. Brady. 2,416,431; Feb. 25.  
Ice cube dispenser. D. I. Bohn. 2,422,772; June 24.  
Ice cube making and storing arrangement, Drip fed. E. R. Swann. 2,429,851; Oct. 28.  
Ice-cube making machine and ejecting the contents of receptacles. O. S. Caesar. 2,431,916; Dec. 2.  
Ice cube making machine, Continuously operating. J. N. Helpbringer. 2,429,461; Oct. 21.  
Ice detecting mechanism. D. Gregg. 2,427,778; Sept. 23.  
Ice formation on aircraft. Prevention of. J. Halbert and R. R. Rawson. 2,433,214; Dec. 23.  
Ice, Harvesting. R. M. Storer. 2,418,434; Apr. 1.  
Ice in small piece, Making. F. M. Raver. 2,431,278; Nov. 18.  
Ice indicator. W. H. Kliever. 2,432,669; Dec. 16.  
Ice machine. F. W. Knowles. 2,419,953; May 6.  
Ice making machine. R. J. Sharp. 2,429,699; Oct. 28.  
Ice on aircrafts, Giving warning of the formation of. J. E. Sherlock. 2,421,166; May 27.  
Ice removing covering for aircraft. W. H. Hunter and W. C. Green. 2,421,621; June 3.  
Ice tray appliance. H. G. Marquis. 2,429,521; Oct. 21.  
Ideographic printer having permutation type selection, Keyboard-controlled. C.-C. Kao. 2,427,214; Sept. 9.  
Idler roller support. G. W. Benjamin. 2,429,117; Oct. 14.  
Ignition apparatus. J. R. Frei. 2,418,505; Apr. 8.  
Ignition apparatus. C. Messerschmidt. 2,426,784; Sept. 2.  
Ignition apparatus. S. K. Smart and A. L. Brownlee. 2,433,715; Dec. 30.  
Ignition apparatus, Electric. W. Bryan. 2,426,921; Sept. 2.  
Ignition apparatus for liquid fuel fired furnaces. E. G. Simmons. 2,423,410; July 1.  
Ignition catalysts treatment and apparatus. B. M. Higinbotham. 2,418,175; Apr. 1.  
Ignition device. L. A. Burrows, G. H. Loving, R. R. Nydegger, and G. H. Smith. 2,420,651; May 20.  
Ignition device for electric discharge apparatus. A. Gaudenzi. 2,431,637; Nov. 25.  
Ignition device for oil burners. J. E. North. 2,415,519; Feb. 11.  
Ignition means for liquid fuel burners. R. W. De Lancey. 2,423,809; July 8.  
Ignition system. H. A. Brinson. 2,413,948; Jan. 7.  
Ignition system. R. T. Coe, T. F. Robinson, and D. F. Welch. 2,433,650; Dec. 30.  
Ignition system. W. J. Spengler. 2,414,000; Jan. 7.  
Ignition system. D. F. Welch and K. J. R. Wilkinson. 2,416,971; Mar. 4.  
Ignition system. K. J. R. Wilkinson, D. F. Welch, and F. H. Clough. 2,427,247; Sept. 9.  
Ignition system for pot-type oil burners. O. L. Bock. 2,431,456; Nov. 25.  
Ignition system unit. J. R. Harkness and A. W. Robinson, Jr. 2,414,692; Jan. 21.  
Ignition testing device. J. W. Horton. 2,425,321; Aug. 12.  
Ignitron. J. E. White. 2,433,181; Dec. 23.  
Illuminated apparatus, Animated. J. Golba. 2,422,540; June 17.  
Illuminated instrument. R. Simpson. 2,413,848; Jan. 7.  
Illuminated sign. W. M. Potter. 2,420,976; May 20.  
Illuminating device. I. B. Polevitzky. Re. 22,896; July 8.  
Illuminating device. R. F. E. Stegeman. 2,424,064; July 15.  
Illuminating room space, Manner and means for. M. B. Beck. 2,428,827; Oct. 14.  
Illuminating unit. W. W. Garstang. 2,433,690; Dec. 30.  
Illuminating unit for optical projectors. R. S. Wilder. Re. 22,848; Mar. 4.  
Illumination arrangement for photographic enlargers. R. S. Hopkins. 2,415,635; Feb. 11.  
Illumination device. E. C. Weiskopf. 2,415,055; Jan. 28.  
Illumination for high-speed motion-picture photography, High intensity. H. M. Lester. 2,427,969; Sept. 23.  
Illumination for typewriters. R. A. Gordon. 2,422,406; June 17.  
Illumination system. G. H. Evans. 2,428,792; Oct. 14.  
Illuminator for cover plates. W. C. Linton. 2,420,000; May 6.  
Illustration, Animated. J. R. Wehr. 2,429,335; Oct. 21.  
Image translating device. J. W. Gibson. 2,429,933; Oct. 28.  
Imidazol thiophan derivatives and manufacture of same. O. Schnider, J. P. Bourquin, and A. Grüssner. 2,417,326; Mar. 11.  
Imidazolone color formers. B. R. Harriman. 2,421,693; June 3.  
Imines, Preparation of. V. E. Haury and S. A. Ballard. 2,422,013; June 10.  
Imines, Production of. V. E. Haury. 2,421,937; June 10.  
Immersion heater. O. E. Bender. 2,414,351; Jan. 14.  
Impact drill. B. E. Snyder. 2,425,012; Aug. 5.  
Impact mill with centrifugal separation. E. Cowles. 2,414,361; Jan. 14.  
Impact switch. R. D. Porter. 2,417,993; Mar. 25.  
Impact testing. C. R. Stock and V. C. Taxwood. 2,422,317; June 17.  
Impact wrench. C. E. Fitch. 2,425,427; Aug. 12.  
Impact wrench. L. P. Fosnot. 2,425,793; Aug. 19.  
Impedance device, Variable. E. C. Cork and A. D. Blumlein. 2,425,084; Aug. 5.  
Impedance effects in grounded communication circuits, Reducing. J. H. Mole. 2,419,907; Apr. 29.  
Impedance matching circuit. P. S. Carter. 2,417,542; Mar. 18.  
Impedance matching means for mechanical waves. C. W. Hansell. 2,430,013; Nov. 4.  
Impeller for centrifugal apparatus. T. Chester. 2,418,012; Mar. 25.  
Impeller for supercharges, Fuel injection. O. W. Schey and W. K. Ritter. 2,419,598; Apr. 29.  
Impeller, Oscillating pump. J. Kuttner. 2,433,461; Dec. 30.  
Impeller pump. A. V. Mueller. 2,420,557; May 13.  
Implement, Abrasive. C. H. Randolph. 2,429,647; Oct. 28.  
Implement adjusting mechanism. R. D. Acton. 2,430,597; Nov. 11.  
Implement, Agricultural. J. R. Orelind. 2,430,731; Nov. 11.  
Implement, Agricultural. J. R. Orelind and J. Morkoski. 2,433,147; Dec. 23.  
Implement and hitch therefor, Tractor-conveyed. C. H. Martin. 2,414,114; Jan. 14.  
Implement device and shaft support thereon. C. J. Scranton. 2,429,492; Oct. 21.  
Implement drive lock device. W. F. Schmied. 2,427,880; Sept. 23.  
Implement, Earth handling. L. L. Reckler. 2,422,985; June 24.  
Implement, Earth-working. E. W. Austin. 2,420,027; May 6.  
Implement, Fastening-applying. A. H. Maynard. 2,420,830; May 20.  
Implement for driving staples. R. E. Barclay. 2,432,853; Dec. 16.  
Implement for removal of ice cubes from trays. G. J. van Lennep. 2,419,381; Apr. 22.  
Implement for ropes and cables, Portable splicing. B. T. Goodwin. 2,430,980; Nov. 18.  
Implement for welding or the like. S. W. Warner. 2,429,039; Oct. 14.  
Implement holder. G. P. Heigle. 2,431,118; Nov. 18.  
Implement or tool. T. R. Arden. 2,425,665; Aug. 12.  
Implement retainer, Working. C. F. Osgood. 2,432,331; Dec. 9.  
Implement, Retractable marking. J. F. Kingsley. 2,417,984; Mar. 25.  
Implement, Self-propelled. N. F. Andrews. 2,425,855; Aug. 19.  
Implement stabilizing and lifting structure, Combined. A. G. Evans. 2,420,530; May 13.  
Implement, Tractor. N. N. Sauder. 2,432,589; Dec. 16.  
Implement, Weeding. O. C. Gaines. 2,418,024; Mar. 25.  
Implement, Writing. S. E. Longmaid. 2,430,023; Nov. 4.  
Impregnated abrasive wheel. S. S. Kistler. 2,421,623; June 3.  
Impregnating and coating machine. B. K. Goodlatte. 2,419,260; Apr. 22.  
Impregnating filter material, Method and apparatus for. S. M. Jessop and H. E. Dyer. 2,416,695; Mar. 4.  
Impression composition, Dental. S. E. Noyes. 2,422,497; June 17.  
Impression mixtures and ingredient therefor. V. V. Vallandigham. 2,431,211; Nov. 18.  
Imprinting machine. A. W. Metzner. 2,416,707; Mar. 4.  
Impulse generating system. G. J. Lehmann. 2,419,574; Apr. 20.  
Impulse generator. S. Darlington. 2,420,302; May 13.  
Impulse generator. A. E. Falk. 2,428,149; Sept. 30.  
Impulse generator. W. M. Goodall. 2,420,309; May 13.  
Impulse generator. E. Labin and E. M. Ostlund. 2,418,128; Apr. 1.  
Impulse generator. O. R. Miller. 2,414,479; Jan. 21.  
Impulse generator. J. D. Schantz. 2,423,999; July 15.  
Impulse measuring device. G. A. Morton and L. E. Flory. 2,418,521; Apr. 8.  
Impulse receiver, Duration. O. T. Francis. 2,421,022; May 27.  
Impulse recording optical system. J. A. Maurer, Jr. 2,426,366; Aug. 26.  
Impulse repeater, Distortion correcting. H. J. McCreary. 2,422,309; June 17.



- Impulse repeating system, Voice frequency and direct current. C. Gillings and C. E. Beale. 2,424,452; July 22.
- Impulse signal transmission system. C. De Vriendt. 2,423,087; July 1.
- Impulses, Causing electric. W. A. Scott and D. F. Ayres. 2,428,247; Sept. 30.
- Impulsing circuit. H. J. McCreary. 2,420,713; May 20.
- Incandescent lamp. E. C. Smally. 2,416,853; Mar. 4.
- Incendiary composition. H. K. Linzell. 2,424,937; July 29.
- Incendiary compositions. M. W. Maughan. 2,430,068; Nov. 4.
- Incinerator. A. C. Waterman. 2,427,480; Sept. 16.
- Inclosure for educating silkworms. M. H. Mead. 2,416,037; Feb. 18.
- Increasing the efficiency of full-fashioned knitting machines. P. Schmidt and H. E. Haehnel. 2,427,163; Sept. 9.
- Increment press. F. J. Rode. 2,426,155; Aug. 19.
- Incubator, Portable baby. G. Armstrong. 2,417,962; Mar. 25.
- Indene phenol, Production of an. F. J. Soday. 2,423,415; July 1.
- Indenes and piperylene, Copolymerization of. F. J. Soday. 2,413,893; Jan. 7.
- Index card and printing plate on a carrier, Retaining an. C. J. Hueber. 2,423,705; July 8.
- Index milling machine. W. Hoier. 2,422,414; June 17.
- Index of refraction of thin layers of transparent material, Method and apparatus for measuring the. L. T. Sachtleben. 2,425,399; Aug. 12.
- Index tab. E. M. and E. R. Kenna. 2,415,248; Feb. 4.
- Indexing and dividing apparatus. C. Peters. 2,432,336; Dec. 9.
- Indexing apparatus. J. J. Dostal. 2,415,872; Feb. 18.
- Indicating and controlling device, Resonance. C. K. Gieringer. 2,423,594; July 8.
- Indicating and totalizing apparatus, Electric. H. W. Schaefer. 2,416,849; Mar. 4.
- Indicating apparatus. L. A. Meacham. 2,414,477; Jan. 21.
- Indicating apparatus, Power factor. H. A. Strickland. 2,425,133; Aug. 5.
- Indicating apparatus, Stall warning. F. W. Godsey, Jr. 2,431,241; Nov. 18.
- Indicating device, Electrical. J. A. Taylor and M. A. Knight. 2,415,452; Feb. 11.
- Indicating device for remote-control systems. M. N. Yardeny, R. Bernas and C. Prindle. 2,430,902; Nov. 18.
- Indicating device in photographic apparatus, Focal field periphery. L. Kalman. 2,428,627; Oct. 7.
- Indicating device, Level. E. F. Flint. 2,432,875; Dec. 16.
- Indicating lamp. F. Hudson. 2,414,527; Jan. 21.
- Indicating means, Bridge unbalance. R. D. Burchfield. 2,431,915; Dec. 2.
- Indicating means for dial instruments in which the dial is provided with light-polarizing characters. R. I. Bradley. 2,427,896; Sept. 23.
- Indicating means for thermal circuit interrupters. A. H. Powell. 2,417,268; Mar. 11.
- Indicating mechanism. C. M. Angel and J. B. Blackburn. 2,415,720; Feb. 11.
- Indicating or regulating the temperature of furnaces or the like. U. Lamm. 2,429,827; Oct. 28.
- Indicating, recording, or control apparatus. E. F. Greening. 2,430,503; Nov. 11.
- Indicating switch. J. H. Schellman. 2,430,189; Nov. 4.
- Indicating system. E. B. Ferrell. 2,423,829; July 15.
- Indicating system for radio blind landing systems. C. W. Earp and J. D. Weston. 2,431,317; Nov. 25.
- Indicating system for welding apparatus. H. Klemperer. 2,433,371; Dec. 30.
- Indicating system, Telemetric. W. P. Lear. 2,432,772; Dec. 16.
- Indicating the water content of a gas, Method and equipment for. G. W. King. 2,429,694; Oct. 28.
- Indication apparatus, Selective. W. P. Place. 2,415,654; Feb. 11.
- Indication for airplane pilots, Gun train. W. C. Robinette. 2,413,785; Jan. 7.
- Indicator: *See*—
- Attitude indicator.
  - Automatic oxygen indicator.
  - Automatic headlight signal indicator.
  - Azimuth indicator.
  - Car stop indicator.
  - Cathode ray indicator.
  - Chemical indicator.
  - Children's behavior indicator.
  - Crane weight and radius indicator.
  - Distance indicator.
  - Dive angle indicator.
  - Electric fence indicator.
  - Enclosed circuit breaker position indicator.
  - Firearm chamber loading indicator.
  - Frequency modulated altimeter or distance indicator.
  - Frequency modulated distance indicator.
  - Frequency shift telegraph receiver tuning indicator.
  - Gel-point indicator.
  - Geophone polarity indicator.
  - Ground speed indicator.
  - Gyroscopic attitude indicator.
  - Heat indicator.
  - Heat responsive indicator.
  - Hoisting indicator.
  - Ice indicator.
  - Key indicator.
  - Linear speed indicator.
  - Locator and position indicator.
  - Machine tool cutting speed indicator.
  - Magnetic field strength indicator.
  - Moisture indicator.
  - Phase indicator.
  - Photoelectric drift indicator.
  - Plunger type voltage indicator.
  - Pressure indicator.
  - Pulse-type position indicator.
  - Radar direction indicator.
  - Radio air navigation indicator.
  - Indicator. D. Rosenston and C. W. Yant. 2,418,727; Apr. 8.
  - Indicator and lock-in device, Combined side mount fuse. W. C. Linton. 2,415,299; Feb. 4.
  - Indicator for aircraft in flight, Position. E. D. Glatz. 2,421,783; June 10.
  - Indicator for airplane engines. D. H. Stroup. 2,426,955; Sept. 2.
  - Indicator for airplane engines, Operation. W. H. Fitzgerald, Jr. 2,426,089; Aug. 19.
  - Indicator for dial instruments, Manually adjustable. S. Kahn. 2,425,941; Aug. 19.
  - Indicator for free-piston units. A. Kalitinsky. 2,420,483; May 13.
  - Indicator for frequency shift carrier telegraph systems, Tuning. R. S. Chapin. 2,417,543; Mar. 18.
  - Indicator for gas-filled conductor cable, Leak. H. Shiroyan. 2,427,627; Sept. 16.
  - Indicator for grinding crankshafts, Angularity. P. F. Koebbe. 2,419,406; Apr. 22.
  - Indicator for radio directive systems, Visual course. C. W. Earp. 2,424,560; July 29.
  - Indicator for radio pulse-echo systems. L. L. Lakatos. 2,414,537; Jan. 21.
  - Indicator for radio pulse systems, Remote. G. E. White. 2,426,654; Sept. 2.
  - Indicator for switchboards, Nonpositional. A. Pereslegin. 2,431,341; Nov. 25.
  - Indicator for teletypewriter line-test key, Visual. W. Hoinkis and D. B. Perry. 2,425,803; Aug. 19.
  - Indicator for typewriters, Hand-position. S. Sieurin. 2,427,694; Sept. 23.
  - Indicator for warp knitting machines, Speed. R. F. Eshleman. 2,432,518; Dec. 16.
  - Indicator fuse plug. M. G. Chittum. 2,422,886; June 24.
  - Indicator having an endless web and sliding name plate to cover and uncover indications on the web, Location. G. E. Graydon. 2,424,611; July 29.
  - Indicator operating mechanism. C. W. Norwood. 2,427,019; Sept. 9.
  - Indicator or recorder, Vacuum tube voltage. E. T. Howes. 2,420,596; May 13.
  - Indicator system, Electronic. W. A. Miller. 2,422,361; June 17.
  - Indicia, Means for applying. M. K. Aulick. 2,421,825; June 10.
  - Indium, Recovering. Y. E. Lebedeff. 2,433,770; Dec. 30.
  - Inductance for telemetering system, Variable. H. D. Warshaw. 2,417,097; Mar. 11.
  - Inductance, Variable. R. G. Clark. 2,417,188; Mar. 11.
  - Induction apparatus, Electromagnetic. S. D. Moreton and Q. Shaffer. 2,431,189; Nov. 18.
  - Induction device. W. C. Hall, Jr. 2,415,688; Feb. 11.
  - Induction furnace. M. and M. Tama. 2,423,912; July 15.
  - Induction heated device. H. N. Shaw. 2,415,853; Feb. 18.
  - Induction heating apparatus with rotatable work conveyor. V. A. Hutchinson. 2,422,417; June 17.
  - Induction heating coil, energizing means therefor and work-release means. H. A. Strickland, Jr. 2,418,056; Mar. 25.
  - Induction heating system, High frequency. L. W. Gregory and R. N. Harmon. 2,416,172; Feb. 18.
  - Induction means for internal-combustion engines, Fuel. R. S. Stickney. 2,419,096; Apr. 15.
  - Induction motor follow-up apparatus, Self-synchronously controlled. A. P. Davis and G. Agins. 2,420,467; May 13.
  - Induction type electricity meter. J. Prince. 2,421,285; May 27.
  - Inductive coupling. F. D. Braddon, L. J. De Lanty, and O. E. Esval. 2,432,982; Dec. 23.
  - Inductor. H. M. Huckleberry. 2,416,393; Feb. 25.
  - Inductor alternator, Heteropolar. R. D. Ball. 2,431,223; Nov. 18.
  - Inductor for induction heating of objects of various sizes and shapes. A. A. Finger. 2,428,705; Oct. 7.
  - Industrial furnace. F. H. Loftus. 2,420,962; May 20.
  - Industrial table. S. G. Shapiro. 2,424,060; July 15.
  - Inhibitors for photographic emulsions, Fog. C. F. H. Allen and J. E. Jones. 2,418,613; Apr. 8.
  - Inertia controlled safety device. J. B. Glennon, R. W. Wallace, and B. Woodward, Jr. 2,429,615; Oct. 28.
  - Inertia-operated stop signal. O. V. Malmquist. 2,433,469; Dec. 30.
  - Range indicator.
  - Reactive current indicator.
  - Remote controlled electrical indicator.
  - Rotary slide indicator.
  - Speed indicator.
  - Stereoscopic range indicator.
  - Stroboscopic load position indicator.
  - Theater program schedule indicator.
  - Tire pressure indicator.
  - Transmission line voltting indicator.
  - Valve leakage indicator.
  - Web controlled indicator.



- Inertia responsive device. M. G. Leonard. 2,426,034; Aug. 19.
- Infant's sleeping cover. F. W. Day. 2,419,989; May 6.
- Indatable device. J. A. Werry. 2,424,597; July 29.
- Inflated truss pad. C. W. Brooks. 2,427,548; Sept. 16.
- Inflating device, Collapsible. V. H. Hurt. 2,423,890; July 15.
- Inflation apparatus for eliminating ice from airfoils. W. H. Hunter. 2,420,137; May 6.
- Inflator. Tire. C. V. Bymark. 2,420,224; May 6.
- Infrared generator. N. T. Gordon. 2,424,454; July 22.
- Infusion package manufacture. L. Barnett. 2,431,680; Dec. 2.
- Infusion package with handles and manufacturing the same. L. Barnett. 2,413,686; Jan. 7.
- Ingot for and making composite articles. L. W. Townsend. 2,424,779; July 29.
- Ingot mold car. H. A. Davis and A. F. Kroen. 2,433,264; Dec. 23.
- Ingots in continuous casting, Cooling. E. A. Nicholls. 2,414,269; Jan. 14.
- Inhalator. S. V. Johnson. 2,417,759; Mar. 18.
- Inhalator. W. E. Moats. 2,431,649; Nov. 25.
- Inhaler, Nasal. H. L. Apfelbaum. 2,421,177; May 27.
- Inhaling device. O. Lardinois. 2,425,624; Aug. 12.
- Inhibiting attack on glass surfaces by caustic soda solutions. W. F. Wegst and P. N. Burkard. 2,428,187; Sept. 30.
- Initiator, Electric explosion. D. D. Huyett. 2,431,871; Dec. 2.
- Injection apparatus. Fuel. A. T. Bremser. 2,425,229; Aug. 5.
- Injection mold. H. G. Hoffer. 2,424,235; July 22.
- Injection press. H. H. Swager. 2,431,843; Dec. 2.
- Injection system. D. E. Meitzler. 2,414,267; Jan. 14.
- Injection system. D. E. Meitzler. 2,428,319; Aug. 26.
- Injection system for internal-combustion engine, Fuel. A. F. Gill. 2,415,687; Feb. 11.
- Injection timing, Electrical. A. Kalitinsky. 2,420,432; May 13.
- Injector for fuel or other liquids. T. Simpson. 2,421,810; June 10.
- Injector, Fuel. R. W. Larson and C. J. Stalvey. 2,431,874; Dec. 2.
- Ink. A. Fischbach and M. Friedman. 2,426,194; Aug. 26.
- Ink, Fountain pen. M. A. Pfaelzer. 2,427,921; Sept. 23.
- Ink, Manufacture of carbon transfer. N. Sagarman. 2,426,248; Aug. 26.
- Ink, Preparing hectographic. D. A. Newman. 2,424,954; July 29.
- Ink, Printing. D. J. Bernardi and R. T. Florence. 2,416,676; Mar. 4.
- Ink, Printing. E. D. Lee. 2,415,827-S; Feb. 18.
- Ink, Printing. A. F. Schmutzler. 2,421,291; May 27.
- Ink ribbon feeding device. J. B. Weimont. 2,424,725; July 29.
- Inkstand and pen rack. L. A. Rhodes. 2,419,285; Apr. 22.
- Inkwell and penholder, Combined. W. C. Neis. 2,433,144; Dec. 23.
- Inker and inking method. J. Kunz. 2,414,818; Jan. 28.
- Inking mechanism for printing machines. W. F. Huck. 2,420,080; May 6.
- Inking mechanism for printing presses. C. A. Harless. 2,425,529; Aug. 12.
- Inking mechanism using water base inks. A. Taylor. 2,430,965; Nov. 18.
- Inner door panels, Making vehicle. G. Trautvetter. 2,430,437; Nov. 4.
- Innersole and making the same. F. L. Ayers. 2,419,871; Apr. 29.
- Innersole and making the same. F. L. Ayers. 2,424,428; July 22.
- Inner sole, Plastic. B. Oestricher. 2,425,388; Aug. 12.
- Inner-spring unit assembly machine. H. T. Groves. 2,420,423; May 13.
- Inner tubes and like rubber articles, Welding rubber. J. L. Pollock. 2,430,076; Nov. 4.
- Inner tubes, Method and apparatus for manufacturing. D. J. Hinman. 2,423,147; July 1.
- Inorganic impurities from mineral oils, preparatory to catalytic cracking, Removing. C. E. Hemminger. 2,425,532; Aug. 12.
- Insect control. W. E. Hall. 2,416,004; Feb. 18.
- Insect-controlling compositions and controlling insects thereby. M. Sentus. 2,415,047; Jan. 28.
- Insectproof container laminate. H. W. Vahlteich. 2,427,647; Sept. 16.
- Insect repellent composition. B. V. Travis and H. A. Jones. 2,420,389; May 13.
- Insect trap. W. C. Temme. 2,424,421; July 22.
- Insecticidal composition. S. C. Dorman. 2,429,092; Oct. 14.
- Insecticidal composition. V. E. Haury. 2,425,185; Aug. 5.
- Insecticidal composition of pyrethrum and a methylene dioxiphenyl synergist. M. E. Synerholm. 2,433,491; Dec. 30.
- Insecticidal compositions. K. E. Maxwell. 2,418,652; Apr. 8.
- Insecticidal compositions. G. H. Morey. 2,415,020; Jan. 28.
- Insecticidal compositions. A. V. Snider and J. L. Van Winkle. 2,424,860; July 29.
- Insecticide. E. Harvill. 2,425,530; Aug. 12.
- Insecticide. F. B. La Forge. 2,421,570; June 3.
- Insecticide. F. B. La Forge and W. F. Barthel. 2,421,569; June 3.
- Insecticide and method of using. W. A. Knapp and L. J. Heuser. 2,427,286; Sept. 9.
- Insecticide containing an amyl amide of 3,6-endomethylene-4-cyclohexene-1,4-dicarboxylic acid. E. W. Bousquet. 2,424,220; July 22.
- Insecticide, Polyalkyl aromatic. R. R. Dreisbach and F. W. Fletcher. 2,428,738; Oct. 7.
- Insecticide, Stabilized. H. G. Smith and M. L. Hill. 2,421,223; May 27.
- Insecticides. F. E. Babbini. 2,423,284; July 1.
- Insecticides, Chlorophenyl glycidic acid ester. P. Müller and W. Schindler. 2,432,118; Dec. 9.
- Insecticides, Halogenated quinoline. W. A. Knapp. 2,427,677; Sept. 23.
- Insert apparatus for oil well casing. R. F. Mackin. 2,432,028; Dec. 2.
- Insert for molded plastic objects. G. A. Moore. 2,428,676; Oct. 7.
- Insert for shoes, Stabilizing. J. M. Hiss. 2,426,735; Sept. 2.
- Inserted blade cutter. B. K. Stuber. 2,423,419; July 1.
- Inserted tooth milling cutter. J. H. Grayson. 2,418,257; Apr. 1.
- Insole. H. F. Miller, J. A. Crowe and H. T. Barker. 2,414,542; Jan. 21.
- Insole and fibrous sewing rib therefor, Welt. W. C. Wright. 2,415,982; Feb. 18.
- Insole, Corrective. H. L. Whitman. 2,427,986; Sept. 23.
- Insole, Ribbed. H. C. Paulsen. 2,427,739; Sept. 23.
- Insoles for welt shoes. E. I. La Chapelle. 2,423,712; July 8.
- Insoles, Making. J. J. Maguire. 2,422,027; June 10.
- Inspection apparatus, Automatic magnetic. R. L. Fitch. 2,430,167; Nov. 4.
- Inspection apparatus for transparent vessels. N. P. Stovate. 2,431,519; Nov. 25.
- Inspection light. J. J. W. Stephens. 2,429,850; Oct. 28.
- Inspection machine, Beverage. P. Weathers. 2,427,319; Sept. 9.
- Instrument control adapter. L. Spraragen. 2,429,901; Oct. 28.
- Instrument for applying ligatures to blood vessels. B. Wandel. 2,427,169; Sept. 9.
- Instrument for indicating degrees of cooking. E. S. Hann. 2,430,290; Nov. 4.
- Instrument for measuring cutaneous sensitivity. S. H. Bartley. 2,422,520; June 17.
- Instrument for measuring properties of rubber and rubber-like materials. H. A. MacDonald. 2,427,796; Sept. 23.
- Instrument for testing and developing the stereoptic acuity of a person's eyes. O. Wittel, G. J. Koch, and J. L. Boon. 2,420,633; May 13.
- Instrument holder construction for dental units and the like. E. L. Monnot. 2,429,901; May 20.
- Instrument housing comprising inner and outer housing and a flexible closure therebetween. R. Simpson. 2,426,712; Sept. 2.
- Instrument, Illuminated. R. Simpson. 2,426,713; Sept. 2.
- Instrument landing system. W. L. Barrow. 2,414,791; Jan. 28.
- Instrument landing system for airplanes. C. W. Muller. 2,427,686; Sept. 23.
- Instrument navigation system. R. C. Hopgood, Jr. 2,426,218; Aug. 26.
- Instrument, Plucking. T. Le Gore and L. T. Kilfoy. 2,431,180; Nov. 18.
- Instrument, Stereoscopic. H. S. Alexander. 2,422,384; June 17.
- Instrument, Stringed. J. W. McBride. 2,422,360; June 17.
- Instrument with mallet action, Surgical. D. Reiter. 2,421,354; May 27.
- Instruments on airplanes, Arrangement of electrical. L. Gouy. 2,418,830; Apr. 15.
- Insulated pipe. J. O. Motsenbocker, Jr. 2,419,278; Apr. 22.
- Insulating and ventilating structure. A. A. Arnheim. 2,427,608; Sept. 23.
- Insulating bushing. W. J. Rhoadan. 2,427,184; Sept. 9.
- Insulating closure member for electrical devices, Removable. J. F. Aichinger. 2,414,846; Jan. 28.
- Insulating composition, Electric. L. E. Thiess. 2,419,472; Apr. 22.
- Insulating compounds, Electrical. G. M. Hamilton. 2,414,300; Jan. 14.
- Insulating device. L. R. Hill and J. J. Keyes. 2,431,250; Nov. 18.
- Insulating fabric. G. Slayter. 2,428,591; Oct. 7.
- Insulating fire brick, Dry press. G. W. Charles. 2,420,863; May 20.
- Insulating material. L. J. Berberich. 2,416,143; Feb. 18.
- Insulating material containing mica. Electrical. R. L. Griffith and J. J. Pickney. 2,420,172; May 6.
- Insulating material, Making. E. J. Jacob. 2,430,123; Nov. 4.
- Insulating material, Slitting of. J. C. Quayle, P. Jones, and R. Bayles. 2,425,123; Aug. 5.
- Insulating material to electric cables, Application of. A. J. Maddock. 2,429,635; Oct. 28.



- Insulating materials. H. Thurnauer and J. Deaderick. 2,428,588; Oct. 21.
- Insulating means for metallic spacers in electron discharge devices. H. J. Dailey. 2,419,124; Apr. 15.
- Insulating runner member for trolley section insulators. R. P. Hanna. 2,416,174; Feb. 18.
- Insulating structure. R. Goldsmith. 2,429,955; Oct. 28.
- Insulating tape, Electric. A. A. New, S. G. Foord, and D. R. Beckwith. 2,421,640; June 3.
- Insulation, Applying. C. F. Hill and N. C. Foster. 2,414,525; Jan. 21.
- Insulation comprising rubber and chlorinated diphenyls, Heat resistant electric. S. J. Rosch. 2,416,955; Mar. 4.
- Insulation for magnetic steel and the like. W. R. Frisch and C. W. Crew. 2,426,445; Aug. 26.
- Insulation, Heat. C. G. Munters. 2,417,435; Mar. 18.
- Insulation in an electron tube. B. R. Corson. 2,429,954; Oct. 28.
- Insulation, Method and apparatus for making flexible. P. F. McDermott. 2,425,293; Aug. 12.
- Insulation, Removing. J. A. Earl and G. L. Knittle. 2,432,868; Dec. 16.
- Insulation, Slot. P. E. Fletcher. 2,417,746; Mar. 18.
- Insulation, Testing. C. M. Ross. 2,414,612; Jan. 21.
- Insulator, Electric fence. G. F. Markman. 2,423,785; July 8.
- Insulator, Electrical. R. E. Stark. 2,431,839; Dec. 2.
- Insulator for connecting clips. R. S. Mueller. 2,416,113; Feb. 18.
- Insulator for electrical wire conductors. R. A. Minarik. 2,426,466; Aug. 26.
- Insulator for fence posts, Electric. R. V. Tichota. 2,430,259; Nov. 4.
- Insulator, Leading-through. B. Hansson and T. Ljungberg. 2,422,546; June 17.
- Insulator, Pass-through. J. de Swart. 2,424,804; July 29.
- Insulator protecting device. H. J. Smith. 2,428,391; Oct. 7.
- Insulator, Shock and vibration. F. L. Yerzley. 2,415,983; Feb. 18.
- Insulator, Splice. E. G. Boyle. 2,429,258; Oct. 21.
- Insulator supported adjustable bus clamp. I. F. Matthysse. 2,415,649; Feb. 11.
- Insulator, Thermally toughened. M. K. Holmes and J. H. Plummer. 2,418,713; Apr. 8.
- Insulator with magnetic blowout, Trolley conductor section. R. P. Hanna and N. H. Wilby. 2,414,200; Jan. 14.
- Insulin kit. L. G. Green. 2,421,495; June 3.
- Integrator. C. S. Grimshaw. 2,414,944; Jan. 28.
- Intelligence reproducing system. C. H. Chambers. 2,426,178; Aug. 26.
- Interceptor with flow control. J. Hirshstein. 2,414,949; Jan. 28.
- Interchangeable coil stand. W. W. Wilson. 2,414,130; Jan. 14.
- Intercommunicating system. R. H. Herrick. 2,425,187; Aug. 5.
- Intercommunication system. W. Feldscher. 2,427,496; Sept. 16.
- Intercommunication system including a master station. K. W. Graybill. 2,428,072; Sept. 30.
- Interferometer, Hydraulic. F. H. Nadig and J. L. Bohn. 2,418,786; Apr. 8.
- Interfolding machine. J. J. Deloye. 2,420,525; May 13.
- Interlacing system. W. J. Poch. 2,421,521; June 3.
- Interlock for couplings and supports for trailers. W. Bennett. 2,417,904; Mar. 25.
- Interlock for trailers, Drop leg and coupler. W. Bennett. 2,417,903; Mar. 25.
- Interlocking, Structure. K. Dugan. 2,414,255; Jan. 14.
- Intermediate pinker for fabrics. V. J. Sigoda. 2,427,025; Sept. 9.
- Intermittent and automatic outflow of various materials. E. Diamond. 2,433,684; Dec. 30.
- Intermittent mechanism. T. I. Ress. 2,420,444; May 13.
- Intermittent motion device. P. J. Konkle. 2,415,390; Feb. 4.
- Internal-combustion airplane heater. H. De N. McCollum. 2,425,630; Aug. 12.
- Internal-combustion engine. R. D. Bruegger. 2,417,910; Mar. 25.
- Internal-combustion engine. G. E. Buske. 2,428,199; Sept. 30.
- Internal-combustion engine. J. H. Connelly. 2,432,725; Dec. 16.
- Internal-combustion engine. R. Daub. 2,413,957; Jan. 7.
- Internal-combustion engine. L. A. Guaraldi. 2,421,198; May 27.
- Internal-combustion engine. H. H. Harmon. 2,422,238; June 17.
- Internal-combustion engine. O. Henning. 2,421,733; June 3.
- Internal-combustion engine. C. S. Johansen and M. R. G. Teisen. 2,417,648; Mar. 18.
- Internal-combustion engine. L. O. Knight. 2,425,156; Aug. 5.
- Internal-combustion engine. E. S. MacPherson. 2,428,886; Oct. 14.
- Internal combustion engine. M. Mallory. Re. 22,863; Apr. 8.
- Internal-combustion engine. M. Mallory. 2,415,506-7; Feb. 11.
- Internal-combustion engine. A. E. Osborn. 2,422,364; June 17.
- Internal-combustion engine. A. M. Starr. Re. 22,871; Apr. 15.
- Internal-combustion engine. C. C. Tate. 2,424,723; July 29.
- Internal-combustion engine. R. E. Taylor. 2,432,699; Dec. 16.
- Internal-combustion engine. J. G. Vincent. 2,418,102; Mar. 25.
- Internal-combustion engine. M. Ware. 2,417,334; Mar. 11.
- Internal-combustion engine. R. A. Weatherup. 2,420,117; May 6.
- Internal-combustion engine. A. and J. Weiss. 2,414,217; Jan. 14.
- Internal-combustion engine. W. L. Wuehr. 2,428,106; Sept. 30.
- Internal-combustion engine. R. A. Wyatt. 2,415,155; Feb. 4.
- Internal-combustion engine with independently rotating valve in the abutment, Rotary abutment. I. H. Selden. 2,418,793; Apr. 8.
- Internal-combustion gas burner. C. R. Berger, Jr. 2,427,545; Sept. 16.
- Internal-combustion heater. H. J. De N. McCollum. 2,417,603; Mar. 18.
- Internal-combustion motor. G. E. Howard. 2,419,450; Apr. 22.
- Internal-combustion percussion tool. C. S. Weyandt. 2,433,007; Dec. 23.
- Internal-combustion turbine plant, Jet-propulsion. F. A. M. Heppner. 2,430,398; Nov. 4.
- Internal-combustion turbines embodying contrarotating bladed members, Assembly of multistage. R. A. M. Heppner. 2,428,330; Sept. 30.
- Internal screw thread and diameter gauge. E. H. Rose. 2,427,924; Sept. 23.
- Interpolymer of isooctene and polyolefine. W. J. Sparks and R. M. Thomas. 2,418,912; Apr. 15.
- Interpolymerization of thiophene with vinyl esters of organic fatty acids. R. C. Hansford. 2,424,691; July 29.
- Interpolymerization products. G. F. D'Alelio. 2,428,787-8; Oct. 14.
- Interpolymers. P. O. Tawney. 2,426,325; Aug. 26.
- Interval-timer. A. B. Poole. 2,427,159; Sept. 9.
- Intravaginal packs, Means for the insertion of. O. Popper. 2,416,642; Feb. 25.
- Invalid chair. W. C. Roe. 2,427,161; Sept. 9.
- Inverted pot type burner. B. Hayter. 2,418,709; Apr. 8.
- Iodine images, Forming. A. Barnes and H. P. Husek. 2,423,473; July 8.
- Iodine therapeutic agent, Activated. A. Strickler. 2,425,285; Aug. 5.
- Ion exchange treatment of sugar. F. N. Rawlings. 2,413,844; Jan. 7.
- Ion filter. N. Glyptis and G. K. Schnable. 2,431,113; Nov. 18.
- Ionic analyzer, Differential. R. V. Seaman. 2,422,264; June 17.
- Ionic discharge device. C. Depew. 2,432,513; Dec. 16.
- Ionic discharge device. C. Depew, W. A. Depp, A. N. Luce, and J. R. Haynes. 2,415,816; Feb. 18.
- Ionic exchange operations. P. M. Contant, A. J. Fischer, and W. A. Kivell. 2,415,936; Feb. 18.
- Ionic exchange operations. F. N. Rawlings and L. de Geofroy. 2,413,784; Jan. 7.
- Iron: See—
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| Electric iron.                      | Soldering iron.             |
| Electric soldering iron.            | Steam electric iron.        |
| Electrically heated soldering iron. | Steam electric sad iron.    |
| Gas heated soldering iron.          | Steam iron.                 |
|                                     | Steaming and pressing iron. |
- Iron and iron alloys, Electrolytically depositing. L. J. Donroe. 2,418,970; Apr. 15.
- Iron bending machine. A. Hossfeld. 2,414,151; Jan. 14.
- Iron bending machine. A. Hossfeld. 2,415,743; Feb. 11.
- Iron, Electrodeposition of. W. B. Stoddard, Jr. 2,420,403; May 13.
- Iron from aluminum sulphate solutions, Separation of. R. B. Barnes and G. P. Ham. 2,416,508; Feb. 25.
- Iron from ore, Recovery of. E. Riveroll. 2,417,949; Mar. 25.
- Iron-graphite contact. J. F. Heuberger. 2,416,830; Mar. 4.
- Iron having regenerating means, Steam. R. L. Dykes. 2,431,545; Nov. 25.
- Iron hydrate, Manufacture of. P. E. Mayer. 2,429,209; Oct. 21.
- Iron ores with sulfonated oils, Froth flotation of oxidized. R. B. Booth and E. C. Herkenhoff. 2,414,714; Jan. 21.
- Iron oxide for pigment purposes, Producing. J. W. Ayers. 2,416,138; Feb. 18.
- Iron oxide scale from an iron-containing metal, Separating magnetic. H. A. Strickland, Jr. 2,425,134; Aug. 5.
- Iron salt solutions, Treating. H. R. Wilson. 2,419,240; Apr. 22.
- Iron stand. J. A. Reina. 2,431,508; Nov. 25.
- Ironer and drier, Radiant heat. E. F. Wesely. 2,432,106; Dec. 9.
- Ironing and drying apparatus, Vacuum hand. A. C. Purpura. 2,427,474; Sept. 16.



- Ironing apparatus, Electrically heated. W. C. Bruckman. 2,415,275; Feb. 4.
- Ironing board accessory. R. Ullberg. 2,414,988; Jan. 28.
- Ironing board and supporting means therefor. A. K. Peters. 2,432,932; Dec. 16.
- Ironing board. Steam emitting foldable. T. Amato. 2,427,829; Sept. 23.
- Ironing machine. F. S. Stout and J. F. Amelunxen. 2,418,913; Apr. 15.
- Ironing machine. Electromagnetic. D. K. Ferris. 2,430,285; Nov. 4.
- Irrigator. W. L. Landreth. 2,420,958; May 20.
- Irrigator, Vaginal. J. C. Shotton. 2,421,294; May 27.
- Isobutane and isopentane by destructive hydrogen of petroleum oils, Production of. A. Voorhies, Jr. 2,428,692; Oct. 7.
- Isobutane production. C. A. Porter. 2,415,530; Feb. 11.
- Isobutene and isopentenes in the presence of sulfuric acids. Interpolymerization of. G. C. Johnson. 2,421,422; June 3.
- Isobutene from a mixture of  $C_4$  hydrocarbons, Separation of. G. B. Zimmerman. 2,421,229; May 27.
- Isobutenes, Recovery and regeneration of. E. E. Willauer and I. P. Jones. 2,431,005; Nov. 18.
- Isobutylene from admixture of butene-1 and isobutylene, Separating. H. E. Drennan. 2,428,516; Oct. 7.
- Isobutylene, Polymerization of. J. B. McKinley and D. R. Stevens. 2,415,438; Feb. 11.
- Isobutylene, Polymerizing. N. M. Elmore. 2,423,760; July 8.
- Isobutylene, Recovery of. P. S. Viles. 2,431,526; Nov. 25.
- Isolator, Vibration. W. A. Lea. 2,428,285; Sept. 30.
- Isomerization. W. Scott. 2,414,066; Jan. 7.
- Isomerization of hydrocarbons, Vapor phase. M. De Simo and F. M. McMillan. 2,415,061; Jan. 28.
- Isomerization of normally liquid saturated hydrocarbons. J. F. Walter and E. H. McGrew. 2,415,315; Feb. 4.
- Isomerization process. G. L. Farrar. 2,422,346; June 17.
- Isomerization process. O. Gerbes. 2,422,233; June 17.
- Isomerizing hydrocarbons. S. H. McAllister, C. C. Crawford, and W. E. Ross. 2,417,698; Mar. 18.
- Isomers of piperylene from each other. Separating geometric. F. E. Frey. 2,430,395; Nov. 4.
- Iso-olefins, Carboxylation of. T. A. Ford. 2,419,131; Apr. 15.
- Iso-paraffin with olefins, Catalytic alkylation of. W. W. Gary. 2,428,417; Oct. 7.
- Isoparaffins, Alkylation of. A. A. O'Kelly, R. H. Work, and J. Plucker, III. 2,423,401; July 1.
- Isoparaffins and reactivation of the catalysts used therein, Preparation of. G. W. Ayers, E. E. Harton, and L. M. Henderson. 2,421,674; June 3.
- Isoparaffins by means of olefins, Alkylation of. F. J. Jenny, M. M. Perkins, and M. J. Cicalese. 2,429,205; Oct. 21.
- Iso-paraffins in hydrocarbon mixtures, Determining. G. W. Ayers and E. E. Harton, Jr. 2,418,814; Apr. 15.
- Isoparaffins, Preparation of. D. C. Bond and M. Savoy. 2,425,416; Aug. 12.
- Isoprene by fractionation and extractive distillation, Recovery of. J. A. Patterson and H. W. Scheeline. 2,426,705; Sept. 2.
- Isopropenylvinyl ether. A. G. Horney and J. G. Shukys. 2,414,201; Jan. 14.
- Isopropylbenzenes, Chlorination of. J. A. Nevison. 2,430,822; Nov. 11.
- Isopropyl chloride, Manufacture of. F. C. Holmes. 2,429,758; Oct. 28.
- Isoquinoline, Purification of. F. E. Cislak and M. M. Otto. 2,432,065; Dec. 2.
- Isoxazole derivative of sulfanilamide. H. M. Wuest and M. Hoffer. 2,430,094; Nov. 4.
- Jack: See—
- Auto jack. Lifting jack.
- Combined leveling and bracing jack. Motor vehicle jack.
- Flange jack. Post handling jack.
- Hydraulic jack. Pump jack.
- Jack. A. W. A. Wiesner. 2,418,443; Apr. 1.
- Jack and jiggle jack. M. Garancher. 2,415,684; Feb. 11.
- Jack rafter bevel square, Automatic. P. F. Witter. 2,425,075; Aug. 5.
- Jacket for combustion chambers, Cooling. G. J. Gollin. 2,430,396; Nov. 4.
- Jacket for liquid cooling of glass tubes, Flexible, rubber-like. I. W. Cox. 2,425,599; Aug. 12.
- Jacket for milk cans, Cooling. C. P. Van Frank. 2,426,475; Aug. 26.
- Jar, Battery. H. Weida. 2,427,639; Sept. 16.
- Jar closure. A. F. Thener. 2,427,819; Sept. 23.
- Jar, Cold cream. C. C. Morrison. 2,413,726; Jan. 7.
- Jar opening tool. W. F. Blake. 2,422,715; June 24.
- Jar or container. H. E. Schroeder and J. B. Meek. 2,428,588; Oct. 7.
- Jar sealing means, Mason. H. W. Jonas. 2,433,051; Dec. 23.
- Jar top remover, Adjustable. H. A. Simpson. 2,431,833; Dec. 2.
- Jars for well drilling tools, Producing. C. R. Athy. 2,431,532; Nov. 25.
- Jet augmer for combustion turbine propulsion plants. F. A. M. Heppner. 2,430,399; Nov. 4.
- Jet for tanks and the like. H. R. Strohecker and H. T. Hall. 2,424,722; July 29.
- Jet lighter. F. L. Phillips. 2,433,707; Dec. 30.
- Jet power means for aircraft, Auxiliary. W. F. O'Neill. 2,422,744; June 24.
- Jet propulsion. R. C. Molloy. 2,421,518; June 3.
- Jet propulsion means, Combustion. A. C. Peterson. 2,425,121; Aug. 5.
- Jet thrust motor. W. E. Van Dorn. 2,426,537; Aug. 26.
- Jet washing apparatus. A. F. McFarland. 2,428,917; Oct. 14.
- Jettison tank. N. J. De Sanders, Jr. 2,427,352; Sept. 16.
- Jettisoning mechanism for aircraft propellers. W. J. Peterson. 2,432,933; Dec. 16.
- Jewel, Corundum. J. A. Heany. 2,427,454; Sept. 16.
- Jewelry chain. M. Chernow. 2,424,924; July 29.
- Jewelry clip. M. Chernow. 2,433,737; Dec. 30.
- Jewelry, Costume. M. D. Wynne, Sr., and T. H. Wynne, Jr. 2,426,571; Aug. 26.
- Jewels, Oliving. G. P. Luckey. 2,419,687; Apr. 29.
- Jig, Adjustable. H. N. Renton. 2,415,259; Feb. 4.
- Jig bushing, Adjustable. H. A. Miller. 2,424,485; July 22.
- Jig, Connecting rod grinding. L. E. Lapointe and L. J. Gaudet. 2,430,062; Nov. 4.
- Jig, Drill. F. McCullough. 2,418,234; Apr. 1.
- Jig, Drilling. W. H. Beitz. 2,413,677; Jan. 7.
- Jig, Drilling. A. J. Mattias and H. J. Fish. 2,430,025; Nov. 4.
- Jig, Drilling. A. Mettrick and D. Hook. 2,419,223; Apr. 22.
- Jig, Flexible drill. T. F. Aronson. 2,417,539; Mar. 18.
- Jig for predeterminedly marking polarizing screens with respect to their transmission axes. L. W. Chubb, Jr. 2,427,259; Sept. 9.
- Jig, Universal. J. B. Klosz. 2,416,010; Feb. 18.
- Jig, Universal drill. W. L. Coop. 2,430,915; Nov. 18.
- Jig vise. W. Woerner. 2,414,348; Jan. 14.
- Jig vise, Production. W. Woerner. 2,414,347; Jan. 14.
- Jig with common actuating means, Multiple cell diaphragm. W. B. Macaulay. 2,416,450; Feb. 25.
- Jig with moving bed, Beet. A. L. Cooper. 2,414,721; Jan. 21.
- Joining a sheetlike material to other materials, and the product so produced. C. A. Riley. 2,427,229; Sept. 9.
- Joining the ends of rubber tubes. C. H. Davis, Jr. 2,430,630; Nov. 11.
- Joint: See—
- Airplane wing spar joint. Rail joint.
- Angular glued wood joint. Railroad rail joint.
- Artificial knee joint. Revolving electrically conductive joint.
- Chain joint. Revolving joint.
- Concealing siding panel joint. Rubber bushed tire rod joint.
- Concrete expansion joint. Safety joint.
- Constant velocity joint. Sanitary pipe joint.
- Detachable pipe joint. Steam joint.
- Expansion joint. Swing joint.
- Flexible joint. Swivel pipe joint.
- Flexible sealing joint. Universal conduit joint.
- Lock joint. Universal fluid joint.
- Metal-glass joint. Universal joint.
- Overlapping joint. Water-stop expansion joint.
- Pipe joint. Welded joint.
- Porous body expansion joint.
- Pressure sealed joint.
- Joint. J. H. Booth. 2,424,431; July 22.
- Joint. M. P. Graham and J. H. Booth. 2,424,455; July 22.
- Joint. T. J. Hoy. 2,427,456; Sept. 16.
- Joint. G. H. Kaemmerling. 2,414,743; Jan. 21.
- Joint. A. Venditty. 2,421,588; June 3.
- Joint and forming the same. J. W. Mathew. 2,416,488; Feb. 25.
- Joint construction. R. E. Klages and W. A. Flumerfelt. 2,426,358; Aug. 26.
- Joint construction for aviator's suits, Clamp-sealed. J. D. Akerman and M. Schonberg. 2,421,533; June 3.
- Joint for concentric cables, Rotating. E. A. Hallstrand. 2,422,961; June 24.
- Joint for conduits, Flexible. W. A. Wilson. 2,418,800; Apr. 8.
- Joint for control transmissions, Ball-and-socket. M. J. Meyer. 2,424,409; July 22.
- Joint for electric cable with plastic sheath, Terminal. G. Haim and H. P. Zade. 2,425,528; Aug. 12.
- Joint for electric cables. C. E. Bennett and P. V. White. 2,414,352; Jan. 14.
- Joint for fishing rods, Lock. C. M. Hunt. 2,423,319; July 1.
- Joint for metal tubes. E. C. Booth. 2,423,577; July 8.
- Joint for sectionalized electric distribution systems. J. E. P. Burge. 2,421,480; June 3.
- Joint for securing together prefabricated building panels, Interlocking wedge. W. W. Rausch. 2,414,060; Jan. 7.
- Joint for sprinklers, Swivel. D. E. Wadsworth. 2,421,104; May 27.
- Joint for tubes, rods and the like. J. F. Le Van. 2,417,654; Mar. 18.
- Joint for tubing. E. E. Howe. 2,431,120; Nov. 18.
- Joint for waveguides, Flexible. R. G. Olden. 2,420,007; May 6.
- Joint grinding mechanism, Ring. E. A. Smith. 2,431,777; Dec. 2.



- Joint or connector, Pipe. C. C. S. Le Clair. 2,426,739; Sept. 2.
- Joint or section of elastic fabric, Bonded. D. E. Morrison and P. F. Ziegler. Re. 22,880; May 20.
- Joint ring. M. G. Leonard and J. A. Guldosh. 2,417,769; Mar. 18.
- Joint structure, Expansion. F. Foulger. 2,428,562; Oct. 7.
- Joiner. K. M. Shenk. 2,431,431; Nov. 25.
- Joiner, Plow. J. F. Raleigh. 2,418,954; Apr. 15.
- Joining machine. H. B. Miller. 2,423,514; July 8.
- Joints, Making universal. F. C. Good, Jr. 2,432,307; Dec. 9.
- Joints, Sealing conductor. A. G. Richardson. 2,419,592; Apr. 29.
- Journal arrangement. R. B. Cottrell. 2,418,398; Apr. 1.
- Journal bearing. W. E. McCullough. 2,426,940; Sept. 2.
- Journal bearing extractor. E. P. Morgan. 2,429,327; Oct. 21.
- Journal box. R. J. Brittain, Jr. 2,433,022; Dec. 23.
- Journal box bucket hanger. J. H. Myers. 2,424,364; July 22.
- Journal oiler. C. H. Ballard. 2,427,701; Sept. 23.
- Journal structure. F. S. Ball, P. G. Palmgren, and H. Styrl. 2,426,963; Sept. 2.
- Journal structure. R. M. Johnstone. 2,423,778; July 8.
- Juice from whole citrus fruit, Method of and apparatus for extracting. R. E. Peterson. 2,420,681; May 20.
- Juice, Method of and apparatus for extracting. H. E. Gray and A. M. Erickson. 2,419,545; Apr. 29.
- Juice product, Making fermented. W. A. Rooker. 2,419,286; Apr. 22.
- Juicer. P. J. McCarthy. 2,414,053; Jan. 7.
- Juices from sugar muds, Recovery of. J. Díaz-Compain. 2,431,634; Nov. 25.
- Juices, Treatment of fruit and vegetable. H. G. Schwarz. 2,425,689; Aug. 12.
- Junction box. O. A. Windsor. 2,414,575; Jan. 21.
- Keeper inserting tool. C. A. Dougherty. 2,423,010; June 24.
- Keeper inserting tool. C. A. Dougherty. 2,431,636; Nov. 25.
- Keratin solutions, Forming. B. Lustig and A. A. Kondritzer. 2,413,983; Jan. 7.
- Kerf-cutting machine. G. Bodin. 2,424,911; July 29.
- Kerf-cutting machine. F. A. Lindgren. 2,429,323; Oct. 21.
- Kerf cutting means. L. E. Simmons. 2,418,199; Apr. 1.
- Ketene with an alpha, beta unsaturated aldehyde, Reacting. A. H. Agett. 2,421,976; June 10.
- Keto ethers, Production of. B. P. Geyer and S. A. Ballard. 2,413,822; Jan. 7.
- Keto-sulfoxes. M. W. Goldberg. 2,421,836; June 10.
- Ketone-cellulose products and making same. J. B. Rust. 2,415,040; Jan. 28.
- Ketone epoxides and producing same, Unsaturated. R. S. Wilder and A. A. Dolnick. 2,431,718; Dec. 2.
- Ketones and ketols by alkali treatment and distillation, Purification of. L. M. Peters. 2,429,484; Oct. 21.
- Key. B. Sterner. 2,423,734; July 8.
- Key action, Spring-powered. J. P. Wesley. 2,424,377; July 22.
- Key and coin purse, Pocket. L. Barnett. 2,416,732; Mar. 4.
- Keyboard control system. P. W. Lang. 2,432,527; Dec. 16.
- Keyboard for musical instruments. F. A. Firestone. 2,417,639; Mar. 18.
- Key, Can. H. A. Davis. 2,426,180; Aug. 26.
- Key carrier. S. J. Stanton. 2,433,245; Dec. 23.
- Key case. D. S. Bennetch. 2,433,644; Dec. 30.
- Key case. B. H. Kaminer. 2,418,945; Apr. 1.
- Key case. F. MacPherson. 2,433,526; Dec. 30.
- Key case. E. J. Plaud. 2,422,436; June 17.
- Key fastener. W. L. Bald. 2,429,913; Oct. 28.
- Key for cylinder locks. B. Sterner. 2,428,397; Oct. 7.
- Key for saxophones, F bar. L. E. Beikson. 2,419,874; Apr. 29.
- Key guard. J. J. Crist. 2,420,125; May 6.
- Key holder. B. Black. 2,418,330; Apr. 1.
- Key holder. R. C. Pfau. 2,429,840; Oct. 28.
- Key holder support. G. R. Hayes. 2,414,041; Jan. 7.
- Key indicator. S. Bloomfield. 2,432,498; Dec. 16.
- Key indicator. L. Oberfeld. 2,418,046; Mar. 25.
- Keypunch, Direct action. N. S. Welk and C. O. Carpenter. 2,421,531; June 3.
- Key retainer. S. Segal. 2,424,775; July 29.
- Key-sender for telecommunication systems. G. Deakin. 2,428,016; Sept. 30.
- Key with guides and movable steps for insertion at back. A. Clani. 2,430,914; Nov. 18.
- Keyed pulse generator. S. Doba, Jr. 2,432,516; Dec. 16.
- Keyed turnbuckle device. A. K. Espenas. 2,420,363; May 13.
- Keys to metal can ends having protective coatings of limited extent, Electrically welding metal. J. G. Hayes. 2,431,325; Nov. 25.
- Kiln charging means and method. A. A. Clark. 2,420,653; May 20.
- Kiln system and operation. E. T. Mankin. 2,428,169; Sept. 30.
- Kit and making rugs therefrom. Rug. E. Solins. 2,429,281; Oct. 21.
- Kit, Gun-rod. J. Bloch. 2,425,455; Aug. 12.
- Kit, Line throwing gun. J. W. Baldwin. 2,420,347; May 13.
- Kit, Lunch. T. Silva. 2,425,963; Aug. 19.
- Kit, Sewing. C. M. Howser. 2,414,877; Jan. 28.
- Kit, Toilet. K. L. Lee and D. Bensch. 2,431,491; Nov. 25.
- Kitchen tools, Making. A. J. Eggleston. 2,432,209; Dec. 9.
- Kite. N. P. de Roda. 2,419,441; Apr. 22.
- Kite. W. H. Schroeder. 2,422,804; June 24.
- Kite, Underwater. F. G. Morrill. 2,414,480; Jan. 21.
- Knee and brake, Artificial. D. M. Connor. 2,424,078; July 15.
- Knee pad. R. O. Ferguson. 2,432,565; Dec. 16.
- Knee protector. L. M. Patterson. 2,423,849; July 15.
- Knee protector. R. A. Washington. 2,431,287; Nov. 18.
- Knife. C. A. Dringman. 2,429,405; Oct. 21.
- Knife gauge. S. Doniger. 2,420,469; May 13.
- Knife holder-sharpener. M. Berman. 2,430,700; Nov. 11.
- Knife, Linoleum. B. Del Debbio and W. Lister. 2,416,913; Mar. 4.
- Knife, Low voltage hot. P. Krebs. 2,421,125; May 27.
- Knife or dagger. H. Leger. 2,421,339; May 27.
- Knife, Pocket. S. Siegel. 2,416,277; Feb. 18.
- Knife sharpener, Cloth-cutting machine. M. Steiner. 2,423,570; July 8.
- Knife sharpening apparatus. E. W. Clark. 2,420,814; May 20.
- Knife sharpening device. H. C. Miller. 2,431,188; Nov. 18.
- Knife, Sheathed. A. Schuster. 2,419,168; Apr. 15.
- Knife, Skin grafting. T. W. Briegel. 2,419,114; Apr. 15.
- Knit fabric. L. Imbriani. 2,432,898; Dec. 16.
- Knitted article manufacture, Ornamented. E. F. Wirtz. 2,427,891; Sept. 23.
- Knitted fabric. C. W. Minton. 2,431,068; Nov. 18.
- Knitted fabric with noncurling, longitudinally extending edges, and making same. B. Stevens, Jr. 2,414,424; Jan. 14.
- Knitting. E. Birmingham. 2,414,353; Jan. 14.
- Knitting apparatus and method. E. Killian. 2,426,357; Aug. 26.
- Knitting guide, Yarn. L. G. Vanselow. 2,423,211; July 1.
- Knitting machine. F. J. Ford. 2,413,819; Jan. 7.
- Knitting machine. O. Fregeolle. 2,427,720; Sept. 23.
- Knitting machine. F. Lambach. 2,419,222; Apr. 22.
- Knitting machine. J. P. Ludwig. 2,430,882; Nov. 18.
- Knitting machine. J. E. Lynam and P. G. McCarthy. 2,416,632; Feb. 25.
- Knitting machine. A. Shortland. 2,417,135; Mar. 11.
- Knitting machine. F. G. Weisbecker. 2,430,695; Nov. 11.
- Knitting machine. G. O. Young. 2,428,405; Oct. 7.
- Knitting machine and method. H. E. and C. Crawford. 2,420,771; May 20.
- Knitting machine and method. H. F. Hilker and H. Welker. 2,424,033; July 15.
- Knitting machine and needle therefor. A. Schwartz. 2,419,856; Apr. 29.
- Knitting machine and operating same. H. E. Haehnel. 2,432,413; Dec. 9.
- Knitting machine, Circular. C. F. Manger, G. A. Buswell, and R. Peberdy. 2,423,989; July 15.
- Knitting machine, Circular. P. L. Thurston and H. Welker. 2,430,792; Nov. 11.
- Knitting machine, Circular latch needle. H. H. Holmes and A. H. Widdowson. 2,425,243; Aug. 5.
- Knitting machine, Electronically controlled. W. Larkin. 2,422,568; June 17.
- Knitting machine, Straight bar. W. G. Macdonald. 2,424,105; July 15.
- Knitting machine, Warp. R. F. Eshleman. 2,427,394; Sept. 16.
- Knitting machine, Warp. W. D. Kellogg. 2,427,395; Sept. 16.
- Knitting machine, Warp. F. Lambach. 2,427,007; Sept. 9.
- Knitting machines, Fashioning. R. E. Schletter. 2,424,957; July 29.
- Knob and escutcheon plate assembly, Operating. H. M. Reeves. 2,420,979; May 20.
- Knob for switches and the like, Indicating. R. Simpson. 2,420,985; May 20.
- Knob, Plastic door. F. E. Frost and E. A. Pavlis. 2,425,611; Aug. 12.
- Knob, scale, and pointer structure, Combined. O. Gorden. 2,427,050; Sept. 9.
- Knob, Steering wheel spinner. J. R. Thorp. 2,432,262; Dec. 9.
- Knockdown baby chair. J. H. Seitz. 2,418,731; Apr. 8.
- Knockout service receptacle. W. R. Workman. 2,432,848; Dec. 16.
- L-thyroxine from thyroprotein, Extracting. C. W. Turner and E. P. Reineke. 2,422,938; June 24.
- Labeling machine. G. W. von Hofe. 2,414,621; Jan. 21.
- Lace and making same, Strip. S. Saftlas. 2,421,357; May 27.
- Lacquer. O. Saslaw. 2,426,242; Aug. 26.
- Lacquers containing vinyl resins and phenolic resins. E. C. Pfeffer, Jr., and F. M. de Beers, Jr. 2,433,062; Dec. 23.
- Lactams, Manufacture of. R. W. Moncrieff and D. P. Young. 2,423,200; July 1.



- Lactones of the cyclopentanopolyhydrophenanthrene series, Manufacture of unsaturated. L. Ruzicka. 2,417,017; Mar. 4.
- Ladder. G. D. Godfrey. 2,418,256; Apr. 1.
- Ladder attachment. C. E. Mann. 2,432,781; Dec. 16.
- Ladder, Convertible. J. S. Anderson. 2,418,862; Apr. 15.
- Ladder counterbalancing apparatus. H. J. Troche and A. J. Farrar. 2,422,507; June 17.
- Ladder rung fastening means. E. T. John. 2,415,180; Feb. 4.
- Ladder step. J. H. Mott. 2,432,206; Dec. 9.
- Ladder support attachment. S. Bucher and J. J. Johnson. 2,432,189; Dec. 9.
- Lady's stocking protector. E. V. Carrozza. 2,426,668; Sept. 2.
- Laminated abrasive tool. G. W. Allred. 2,422,876; June 24.
- Laminated board. G. B. Johnston. 2,414,533; Jan. 21.
- Laminated corrugated articles, Making. D. D. Adams and K. Rollius. 2,422,998; June 24.
- Laminated fuel tank. A. Hershberger. 2,430,931; Nov. 18.
- Laminated materials, Heat sealing. K. J. Kopplin. 2,431,050; Nov. 18.
- Laminated optical filter. A. Thomas. 2,420,270; May 6.
- Laminated sheet heat-sealable container. R. A. Farrell and C. L. Wagner. 2,430,459; Nov. 11.
- Laminated structures. H. E. Schroeder. 2,425,349; Aug. 12.
- Laminated structures and preparing them. H. C. Evans and D. W. Young. 2,426,820; Sept. 2.
- Laminated structures, Making. P. Crosley, III. 2,417,586; Mar. 18.
- Laminated structures, Producing curved. V. E. Watts. 2,418,438; Apr. 1.
- Laminated unit and making it. T. K. Gregorius. 2,427,557; Sept. 16.
- Laminating process. A. E. King. 2,432,575; Dec. 16.
- Laminations on a rotor shaft, securing. A. Carlson. 2,421,115; May 27.
- Lamp. *See*—
- Bed lamp.
  - Cold cathode fluorescent lamp.
  - Crater lamp.
  - Electric lamp.
  - Electric projection lamp.
  - Fluorescent electric discharge lamp.
  - Fluorescent flow lamp.
  - Gaseous electric lamp.
  - Gaseous electric discharge lamp.
  - Incandescent lamp.
  - Indicating lamp.
  - Low-temperature luminescent lamp.
  - Multiflash lamp.
  - Photoflash lamp.
  - Portable lamp.
  - Spot-signal lamp.
  - Table lamp.
- Lamp. A. F. Jasinski. 2,429,553; Oct. 21.
- Lamp. P. J. Walsh. 2,426,907; Sept. 2.
- Lamp adaptor, Electric bipost. T. E. Carroll. 2,422,222; June 17.
- Lamp and bulb, Electric. M. E. McGowan. 2,420,831; May 20.
- Lamp and controlling means therefor, Electric discharge. W. J. Harris. 2,416,751; Mar. 4.
- Lamp and manufacture, Flash. M. Pipkin. Re. 22,838; Feb. 4.
- Lamp and manufacture, Fluorescent. J. E. Stanworth. 2,418,202; Apr. 1.
- Lamp and seal therefor, Electric. P. O. Cartun. 2,427,711; Sept. 23.
- Lamp and starting device, Electric discharge. H. J. McCarthy. 2,426,229; Aug. 26.
- Lamp circuit. C. E. Atkins and F. Furedy. 2,425,297; Aug. 12.
- Lamp construction. C. E. Tsouros. 2,428,479; Oct. 7.
- Lamp failure switch. H. F. Waters. 2,428,441; Oct. 7.
- Lamp fixture, Fluorescent. D. L. Cochener. 2,426,436; Aug. 26.
- Lamp for measuring high-frequency power, Concentric line. E. L. Stempel, J. E. Beggs, and H. W. A. Chalberg. 2,427,752; Sept. 23.
- Lamp getter, Electric incandescent. S. L. Martin and C. F. P. Bevington. 2,431,185; Nov. 18.
- Lamp or the like, Electric. J. W. Fulton and A. G. Foote. 2,424,446; July 22.
- Lamp protector. L. E. Hunt. 2,417,364; Mar. 11.
- Lamp retainer for fluorescent lamps and the like. G. W. Beals. 2,424,874; July 29.
- Lamp retaining means for fluorescent lamp sockets. C. H. Hodgkins. 2,426,022; Aug. 19.
- Lamp socket, Gaseous conduction. P. Forman. 2,421,321; May 27.
- Lamp socket mounting. W. H. Woodward. 2,424,009; July 15.
- Lamp system and thermal starting switch, Fluorescent gaseous discharge. J. Kurtz, J. Waldie, and J. Spina. 2,423,031; June 24.
- Lamp testing unit, Electric gaseous discharge. M. J. Lifshitz. 2,415,502; Feb. 11.
- Lamp unit, Multiple flash. E. B. Noel. 2,427,736; Sept. 23.
- Lamps, Method of and apparatus for operating hot cathode. B. P. Rupersburg. 2,424,505; July 22.
- Lamps, Starting and operating of fluorescent. R. W. Keiser and C. P. Boucher. 2,429,162; Oct. 14.
- Land bulldozer, snow plow, and road maintainer, Farm. B. F. Owen. 2,426,410; Aug. 26.
- Land mine exploder device. A. R. Williams. 2,425,018; Aug. 5.
- Landing and launching means for aircraft. R. A. C. Brle. 2,415,071; Feb. 4.
- Landing device for aircraft. H. V. Ramirez. 2,433,238; Dec. 23.
- Landing device for airplanes, Inflatable crash. A. Whitmer. 2,418,798; Apr. 8.
- Landing gear. O. J. Alvarez. 2,417,340; Mar. 11.
- Landing gear. R. E. Greenough. 2,424,233; July 22.
- Landing light. K. F. Gausch. 2,431,240; Nov. 18.
- Lantern, Electric. C. E. Wohler and L. G. Sherwood. 2,420,634; May 13.
- Lantern support. S. Csencsics. 2,430,161; Nov. 4.
- Lap and lap holder. W. A. Luther. 2,426,699; Sept. 2.
- Lapel or the like with captive coupon. R. S. Krug. 2,420,045; May 6.
- Lapping machine. M. Ramsay. 2,423,118; July 1.
- Lapping machine for generating diamond shapes. F. C. Jearum. 2,429,464; Oct. 21.
- Lapping tool. R. Broe. 2,432,606; Dec. 16.
- Lapping tool. J. F. Steigerwald. 2,419,297; Apr. 22.
- Laps, Forming. L. P. Miller. 2,431,066; Nov. 18.
- Lariat honda. H. H. Grund. 2,414,945; Jan. 28.
- Laryngoscope, Folding. H. E. Palmeter. 2,433,705; Dec. 30.
- Last. J. Fitzpatrick. 2,420,235; May 6.
- Last. A. B. Rubin and G. A. Faber. 2,423,566; July 8.
- Last, Collapsible. V. J. Levaggi, Jr. 2,429,233; Oct. 21.
- Last for shoes. J. E. MacKay. 2,426,516; Aug. 26.
- Last inserting machine. N. H. Knowlton. 2,427,356; Sept. 16.
- Last, Slip lasting. F. L. Ayers. 2,426,810; Sept. 2.
- Lasting machine. C. W. Baker. 2,431,362; Nov. 25.
- Lasting machine. P. E. Burby. 2,428,062; Sept. 30.
- Lasting machine. B. Jorgensen. 2,423,454; July 8.
- Lasting machine. C. A. Robinson. 2,421,435; June 3.
- Lasting machine. A. C. Eek. 2,421,777; June 10.
- Lasting machine. E. F. Small. 2,429,333; Oct. 21.
- Lasting shoes, Method of and machine for. B. B. Blanchard. 2,415,410; Feb. 11.
- Latch. *See*—
- Door latch.
  - Flush-type door latch.
  - Locking latch.
  - Night latch.
  - Tubular latch.
- Latch. B. R. Thiele. 2,423,352; July 1.
- Latch. B. R. Thiele. 2,426,754; Sept. 2.
- Latch. B. R. Thiele. 2,430,312; Nov. 4.
- Latch. A. Vander Henst. 2,420,114; May 6.
- Latch and setting mechanism therefor, Thermoresponsive. F. McKune. 2,426,039; Aug. 19.
- Latch construction, Inside locking. A. F. Lickteig. 2,420,083; May 6.
- Latch for contactors. D. Ellis and O. L. Taylor. 2,426,301; Aug. 26.
- Latch for remote control, Full stroke. F. G. Nicolaus. 2,418,598; Apr. 8.
- Latch for sliding pivoted closure, Integral. J. Kuckl. 2,415,357; Feb. 4.
- Latch for vending machine doors. R. Baker, Sr. 2,414,350; Jan. 14.
- Latch jig, Quick. A. J. Matter. 2,422,114; June 10.
- Latch lock, Particularly for workmen's tool bags and analogous containers. R. Rodger. 2,416,497; Feb. 25.
- Latch mechanism. F. A. Best. 2,424,962; Aug. 5.
- Latch mechanism for appliances. R. H. Jordan. 2,431,332; Nov. 25.
- Latch mechanism for dump trucks. R. A. Penny. Re. 22,955; Dec. 30.
- Latch operated axially engaging positive clutch. W. Miller and J. L. D. Morrison. 2,432,483; Dec. 9.
- Latch-type thermostatically controlled regulator. G. W. Crise. 2,429,400; Oct. 21.
- Latching device. J. W. K. Jurrat. 2,423,980; July 15.
- Latching mechanism. G. R. Chervenka. 2,428,929; Oct. 14.
- Latching mechanism. H. F. George. 2,425,239; Aug. 5.
- Latching mechanism. E. A. Hoberg and R. T. Moore. 2,426,828; Sept. 2.
- Latching mechanism for electric switches. W. G. Harlow. 2,418,470; Apr. 8.
- Lateral guiding means for heavy door posts. W. J. Lauferweiller and R. E. Thompson. 2,430,063; Nov. 4.
- Laterally folding child's chair. R. S. Cass. 2,433,090; Dec. 23.
- Latex, Manufacture of plastified rubber and adhesive. C. Saint-Mieux. 2,430,481; Nov. 11.
- Latex, Thickening. C. W. Wilson. 2,421,107; May 27.
- Latex, Treating. C. W. Wilson. 2,421,108; May 27.
- Latexes, Creaming. R. D. Freeman. 2,423,766; July 8.
- Lathe. S. L. Casella. 2,433,027; Dec. 23.
- Lathe. R. L. Hibbard. 2,422,964; June 24.
- Lathe. M. G. Himoff. 2,433,048; Dec. 23.
- Lathe dog. R. W. Bargren. 2,418,864; Apr. 15.
- Lathe dog. C. S. Hall. 2,421,200; May 27.
- Lathe, Duplex combination extension. R. D. Cavanagh. 2,416,612; Feb. 25.
- Lathe for turning drill shanks. R. Craig. 2,423,376; July 1.
- Lathe, Rotary tool. L. Hornbostel. 2,426,932; Sept. 2.
- Lathe, Turning. J. L. Betzen. 2,422,071; June 10.
- Lathe with rotary cutters, Modified barstock chucking. F. E. Dulmage. 2,431,294; Nov. 18.



- Lather maker. J. Massion. 2,413,925; Jan. 7.  
 Latices of synthetic rubberlike materials, Coagulating. R. M. Thomas and D. C. Field. 2,426,127; Aug. 19.  
 Launcher for aircraft, Rocket. C. D. Anderson, R. B. Leighton, C. H. Wilts, and A. L. Melzian. 2,414,579; Jan. 21.  
 Launcher, Rocket. A. S. Gould. 2,430,636; Nov. 11.  
 Launching and landing of land-airbased airplanes. S. S. Knox. 2,425,886; Aug. 19.  
 Laundry and other machines. E. J. Howlett. 2,432,017; Dec. 2.  
 Laundry apparatus. H. E. Edwards. 2,425,788; Aug. 19.  
 Laundry hanger. B. W. Odom. 2,427,414; Sept. 16.  
 Laundry machine with replaceable container. J. Olen. 2,431,418; Nov. 25.  
 Laundry method and bag. R. A. Phair and W. A. Schnakenberg. 2,426,843; Sept. 2.  
 Laundry souring composition. L. R. Bacon. 2,422,066; June 10.  
 Lauric acid esters of polyhydric alcohols in insecticides, Partial. K. R. Brown. 2,432,607; Dec. 16.  
 Lavatory. H. G. Coordes. 2,413,811; Jan. 7.  
 Lawn edger, Electric. G. E. Muzzy. 2,432,922; Dec. 16.  
 Lawn mower. W. D. Goldsmith. 2,421,558; June 3.  
 Lawn mower wheel bearing. F. W. Wells. 2,415,924; Feb. 18.  
 Lawn mowers, Sharpening. N. Madsen. 2,425,106; Aug. 5.  
 Lawn perforating machine. H. Helbig. 2,422,729; June 24.  
 Lawn sprinkler. F. D. Wilber. 2,422,059; June 10.  
 Layout tool. T. F. Scanlin. 2,431,346; Nov. 25.  
 Layer remover for airplanes, Boundary. L. H. Crook and W. R. Custer. 2,428,737; Oct. 7.  
 Layers having ultra-violet light filters, Light-sensitive. G. H. Brown, P. W. Vittum, and E. E. Jelley. 2,415,624; Feb. 11.  
 Lead alkyls, Making. H. W. Pearsall. 2,414,058; Jan. 7.  
 Lead chromate, Production of. R. W. Lelsy. 2,430,939; Nov. 18.  
 Lead, Electrodeposition of. A. G. Gray. 2,415,169; Feb. 4.  
 Lead from lead sulphide ores and concentrates, Extracting. B. M. S. Kalling, S. J. Wallden, and G. Tanner. 2,416,628; Feb. 25.  
 Lead-in device for manifold of ignition harness. D. Ingalls. 2,420,138; May 6.  
 Lead pigments, Making. L. E. Barton. 2,419,246; Apr. 22.  
 Lead printing compound and production, Light sensitized. A. Schoen. 2,414,839; Jan. 28.  
 Lead, Refining of. W. T. Isbell. 2,422,967; June 24.  
 Lead resin and producing. H. A. Elliott. 2,425,926; Aug. 19.  
 Leaf separator. J. F. Halstead. 2,416,173; Feb. 18.  
 Leakage in oil wells, Detecting. N. G. Haseltine and M. Bock. 2,425,531; Aug. 12.  
 Leakproof container. J. Press. Re. 22,885; May 27.  
 Leakproof fuel tank. H. Pfeumer. 2,422,797; June 24.  
 Leak reducer for joints between relatively rotatable conduits. De L. E. Hibner and F. C. Arey. 2,421,939; June 10.  
 Leash, Retractable. G. S. and T. J. Oberdorf. 2,424,368; July 22.  
 Leather burnishing and plating. B. S. Cross. 2,416,289; Feb. 25.  
 Leather conditioning cutter. J. H. Kelly. 2,429,822; Oct. 28.  
 Leather, Glazing. C. D. Knowlton and D. Edgar. 2,433,459; Dec. 30.  
 Leather key case. L. G. Stanley. 2,424,290; July 22.  
 Leather, Making wear-resistant. G. Virtue. 2,413,806; Jan. 7.  
 Leather product, Artificial. F. J. Bellac. 2,417,405; Mar. 18.  
 Leg brace knee lock. R. F. Markkula. 2,433,570; Dec. 30.  
 Leg construction, Folding. M. A. Wilkinson. 2,432,266; Dec. 9.  
 Leg rest. A. S. Cox. 2,414,856; Jan. 28.  
 Leg structure for mounting aircraft landing elements. G. H. Dowty. 2,421,871; June 10.  
 Leg structure for tables and the like, Foldable. C. C. Brown. 2,424,266; July 22.  
 Legging, Rain. M. Randall. 2,422,851; June 24.  
 Legs for semitrailers, Full automatic landing. R. W. Starr. 2,418,240; Apr. 1.  
 Length device, Adjustable. R. C. Weikel. 2,424,376; July 22.  
 Lens adjusting means for photocopy machines. E. R. Sabel and F. I. Galbrecht. 2,429,896; Oct. 28.  
 Lens and dial, Instrument. H. F. Pearson. 2,430,616; Nov. 11.  
 Lens and filter structure for copy cameras, Changeable. S. N. Wekeman. 2,420,023; May 6.  
 Lens assembly, Electron. C. H. Bachman. 2,421,234; May 27.  
 Lens attachment for cameras. A. B. Parker. 2,426,521; Aug. 26.  
 Lens for radio frequency waves. H. A. Iams. 2,415,352; Feb. 4.  
 Lens, Headlight. E. Ryder. 2,423,664; July 8.  
 Lens mount, Adjustable. O. R. Nemeth. 2,428,719; Oct. 7.  
 Lens mount assembly for motion-picture projectors, Swingable. S. P. O. Sundgren and K. E. U. Selander. 2,428,858; Oct. 14.  
 Lens mounting. M. N. Fairbank. 2,423,492; July 8.  
 Lens, Punch aligning. R. V. Wood. 2,426,480; Aug. 26.  
 Lens structure, Electron. C. H. Bachman. 2,420,514; May 13.  
 Lens surfacing machine. D. E. Mulholland, G. Fast, and K. S. Lawrence. 2,418,086; Mar. 25.  
 Lens system, Collective. J. H. Jeffree. 2,416,525; Feb. 25.  
 Lens system, High aperture collimating. W. Schade. 2,425,400; Aug. 12.  
 Lens system, Magnetic electron. P. C. Smith. 2,418,432; Apr. 1.  
 Lens system, Optical projecting. A. Montani. 2,428,122; Sept. 30.  
 Lens system, Optical sighting. F. E. Altman. 2,430,549; Nov. 11.  
 Lens, Triplet objective. J. R. Miles. 2,417,942; Mar. 25.  
 Lenses, Camera objective. G. H. Aklin. 2,430,548; Nov. 11.  
 Lenses, Coating. J. H. Reynolds. 2,430,994; Nov. 18.  
 Lenses for cinematography. P. E. Creighton. 2,432,387; Dec. 9.  
 Lenses for optical purposes. J. M. Strang. 2,417,330; Mar. 11.  
 Lenses, Forming. B. J. Ziegler. 2,433,013; Dec. 23.  
 Lenses, Making ophthalmic. W. J. Joyce. 2,429,692; Oct. 28.  
 Lenses, Unblocking. D. Dodkin. 2,428,412; Oct. 7.  
 Lenses, Unblocking. W. J. Joyce. 2,421,753; June 10.  
 Lenses with respect to effective physical speed, Calibrating. L. T. Sachtleben. 2,419,421; Apr. 22.  
 Lenticular sheet, Transparent pressure-sensitive. P. V. Palmquist. 2,432,928; Dec. 16.  
 Letoff mechanism for looms. O. V. Payne. 2,419,419; Apr. 22.  
 Let-off motion of looms for weaving, Warp. H. Lakeland. 2,420,957; May 20.  
 Letter box. W. F. Rothe. 2,421,221; May 27.  
 Lettering and designing device. F. Ellis. 2,432,300; Dec. 9.  
 Level, Adjustable spirit. E. A. Keller. 2,419,451; Apr. 22.  
 Level and temperature controller, Liquid. W. Allcock, Jr. 2,424,133; July 15.  
 Level gyro. H. C. Ford. 2,427,130; Sept. 9.  
 Level vial construction. A. Raines and M. Schoenfeld. 2,432,124; Dec. 9.  
 Leveler, Land. F. T. Smith. 2,428,857; Oct. 14.  
 Leveling device for cable-tool drills. K. E. Reischl. 2,422,210; June 17.  
 Lever-actuated pivoted-jaw wrench. F. A. Snell. 2,420,020; May 6.  
 Lever actuated tire bead forcing device. J. Graves and A. N. Butler. 2,433,113; Dec. 23.  
 Lever control, Quadrant. C. W. Mott. 2,420,555; May 13.  
 Lever control unit. M. D. Glass, W. W. Dalrymple, and H. F. Halsted. 2,421,494; June 3.  
 Lever for bending and shearing metal rods, Manually operated. J. Garton. 2,424,024; July 15.  
 Lever lock. H. B. Mueller. 2,427,804; Sept. 23.  
 Lid for frying pans and the like, Safety. M. G. Ramsey. 2,417,124; Mar. 11.  
 Lifeboat. R. D. Mayo. 2,431,061; Nov. 18.  
 Life preserver with chemical heater. S. A. Alexander. 2,429,973; Nov. 4.  
 Life raft releasing mechanism. A. N. Anderson. 2,425,910; Aug. 19.  
 Lift and transfer device, Invalid. R. N. Smith. 2,418,606; Apr. 8.  
 Lift, Combination pump and gas. H. S. Berkey. 2,427,703; Sept. 23.  
 Lift device for tractors, Power. R. D. Acton. 2,430,696; Nov. 11.  
 Lift device, High. E. A. Stalker. 2,423,803; July 8.  
 Lift, Low lift air. J. A. Piersol. 2,427,157; Sept. 9.  
 Lift of the hydraulic type, Power. F. T. Court. 2,423,485; July 8.  
 Lift, Power. W. H. Silver. 2,426,530; Aug. 26.  
 Lift, Twin. W. C. Anthony and L. W. Wachter. 2,418,494; Apr. 8.  
 Lifter—See—  
     Barrel lifter. Fruit jar lifter.  
     Belt lifter.  
 Lifter and carrier, Bottle. T. W. Mullen. 2,417,775; Mar. 18.  
 Lifter for hot or cold containers. W. C. Knapp. 2,421,509; June 3.  
 Lifter, Material. J. F. Wasco. 2,429,969; Oct. 28.  
 Lifting and lowering device for motor vehicles, Window. W. S. Wiseman. 2,422,456; June 17.  
 Lifting and pulling mechanism. S. Hinchcliffe. 2,417,492; Mar. 18.  
 Lifting and turning apparatus. P. I. Peterson. 2,426,284; Aug. 26.  
 Lifting apparatus, Hydraulic. G. W. Crise. 2,430,758; Nov. 11.  
 Lifting control for hoisting apparatus, Load. R. E. Nelles. 2,428,578; Oct. 7.  
 Lifting device. T. Madland. 2,427,566; Sept. 16.  
 Lifting device, Dolly. J. A. Patrick. 2,421,365; May 27.



- Lifting jack. P. Pluta and L. Felderstein. 2,427,808; Sept. 23.
- Lifting jack. J. S. Rothery. 2,416,848; Mar. 4.
- Lifting mechanism. M. G. Ward. 2,433,537; Dec. 30.
- Lifting mechanism for looms, Warp beam. C. R. Kronoff. 2,424,400; July 22.
- Lifting mechanism for sliding car doors. F. Ditchfield. 2,432,733; Dec. 16.
- Light: See—
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| Automatic backup light.      | Highway light.               |
| Auto-reel light.             | Hinged light.                |
| Diver's light.               | Inspection light.            |
| Dual-purpose light..         | Landing light.               |
| Generator light.             | Night light.                 |
| Helicopter navigation light. | Signal light.                |
|                              | Tell-tale and testing light. |
- Light beam divider. A. F. Turner and R. B. Horsfall, Jr. 2,422,376; June 17.
- Light beam recorder, Continuous angularly movable. R. S. Fox. 2,432,303; Dec. 9.
- Light control, Automatic. H. Peter. 2,422,847; June 24.
- Light for airplanes, Quick detachable landing. 2,424,688; July 29.
- Light generating device. C. G. Smith. 2,433,404; Dec. 30.
- Light modulation, System of. E. C. Thomson. 2,432,104; Dec. 9.
- Light-polarizing images, Forming. E. H. Land and D. P. Cooper, Jr. 2,423,504; July 8.
- Light rays, Illuminated display utilizing ultra-violet and visible. J. R. Lynch. 2,430,232; Nov. 4.
- Light reflecting sign. J. J. Booth. 2,426,163; Aug. 26.
- Light-sensitive layer and making and exposing it. T. R. Cochran. 2,427,443; Sept. 16.
- Light slit for photoelectric sound heads, Prefocused, quickly adjustable. L. A. McNabb. 2,421,637; June 3.
- Light source, Fluorescent. L. R. Bickford, Jr. 2,413,940; Jan. 7.
- Light structure, Oppositely swingable. J. H. Reichart. 2,414,485; Jan. 21.
- Lighter. A. H. Aronson. 2,426,853; Sept. 2.
- Lighter. I. Dorfman. 2,430,670; Nov. 11.
- Lighter. I. Florman. 2,419,889; Apr. 29.
- Lighter. A. Kolberg and J. Kohn. 2,427,058; Sept. 9.
- Lighter. J. S. Sherman. 2,423,567; July 8.
- Lighter. A. F. Ward, Jr. 2,432,265; Dec. 9.
- Lighter, Automatic cigar. J. Sinko. 2,432,452; Dec. 9.
- Lighter, Catalytic. G. P. Schmitt. 2,419,972; May 6.
- Lighter, Cigarette. J. H. Homrighous. 2,419,402; Apr. 22.
- Lighter construction. A. Campos. 2,417,630; Mar. 18.
- Lighter construction. A. Campos. 2,423,481; July 8.
- Lighter construction. A. Campos. 2,430,102-3; Nov. 4.
- Lighter, Fire. E. W. Lersch. 2,429,829; Oct. 28.
- Lighter for gas stoves, Flint. J. Cowell. 2,431,168; Nov. 18.
- Lighter or the like, Cigarette. I. Florman. 2,418,295; Apr. 1.
- Lighter, Pocket pyrophoric. J. R. Ayotte. 2,430,323; Nov. 4.
- Lighter, Pyrophoric. B. Lowenthal. 2,433,467; Dec. 30.
- Lighter, Side action automatic. A. O. Gonzalez. 2,433,041; Dec. 23.
- Lighter, Stormproof. F. G. Dress. 2,430,216; Nov. 4.
- Lighter, Underwater torch. D. F. Geiger. 2,418,631; Apr. 8.
- Lighter using vaporisable fluids. A. Vanetzian. 2,424,781; July 29.
- Lighting system for automobiles or the like. S. J. Crockett. 2,414,932; Jan. 28.
- Lighting equipment. H. Freeman. 2,420,943; May 20.
- Lighting fixture, Fluorescent. L. Schepmoes. 2,421,967; June 10.
- Lighting means, Electric. A. F. Pieper. 2,419,965; May 6.
- Lighting means, Electric. A. F. Pieper. 2,420,190; May 6.
- Lighting novelty, Electric. W. S. Gaskouitz. 2,430,607; Nov. 11.
- Lighting, Stage. S. F. Hardman. 2,426,093; Aug. 19.
- Lightning arrester. A. A. Olsen. 2,422,978; June 24.
- Lightning arrester, Expulsion. R. R. Pittman. 2,418,791; Apr. 8.
- Lightning arrester, Tank mounted. K. K. Paluev. 2,421,644; June 3.
- Lights and assembly for vehicles, Decorative. W. Trautner. 2,426,534; Aug. 26.
- Lignin material, Degradation treatment of. F. E. Brauns and I. A. Pearl. 2,417,346; Mar. 11.
- Lignin substances, Treatment of. H. F. Lewis and I. A. Pearl. 2,433,227; Dec. 23.
- Lignocellulosic product, Making pressed decorative. G. S. Willey. 2,431,720; Dec. 2.
- Limb, Artificial. R. E. Huck. 2,427,457; Sept. 16.
- Limb construction, Artificial. B. Horn. 2,422,802; June 17.
- Lime composition, Soda. M. R. Day. 2,423,688-9; July 8.
- Lime particle with carbon, Impregnating. A. J. Abrams, C. O. Baker, C. S. Kuhn, Jr., and L. G. Sharp. 2,414,625; Jan. 21.
- Lime product and making the same, Hydrated. L. J. Minnick. 2,423,335; July 1.
- Limit switch. L. B. Wagner. 2,427,317; Sept. 9.
- Limiter, Modulation. D. E. Foster. 2,430,978; Nov. 18.
- Limiter, Signal peak. R. M. Sprague. 2,423,263; July 1.
- Limiter system, Automatic. G. J. C. Andresen. 2,418,389; Apr. 1.
- Line amplifier for high-frequency electric signals such as television signals. E. L. C. White. 2,431,973; Dec. 2.
- Line clamp. A. R. Williams. 2,431,439; Nov. 25.
- Line-spacing mechanism for typewriters, Differential. P. W. Woodgate. 2,423,430; July 1.
- Line-wire reinforcement. H. L. Kitselman and A. W. Holmes. 2,414,045; Jan. 7.
- Linear saw-tooth generator. E. K. Stodola. 2,419,606; Apr. 29.
- Linear-motor catapult structure. M. F. Jones. 2,428,570; Oct. 7.
- Linear speed indicator. C. M. Hines. 2,415,492; Feb. 11.
- Linear superpolyesters, Making. J. C. Cowan and D. H. Wheeler. 2,429,219; Oct. 21.
- Liner for containers, Plastic. R. B. Gray and J. C. De Weese. 2,421,613; June 3.
- Liner for gun barrels. J. P. Magos. 2,426,972; Sept. 2.
- Liner for upholstered spring units. L. H. Heuer. 2,430,612; Nov. 11.
- Liner hanger. L. Spencer. 2,427,330; Sept. 9.
- Liner within a bore, Bonding a. W. M. Crook. 2,424,878; July 29.
- Lining for sink or the like. A. W. Robertson. 2,421,808; June 10.
- Lining machine, Can cover. W. Diezel. 2,418,400; Apr. 1.
- Lining, Removable slipper and shoe. A. Gross. 2,422,410; June 17.
- Link, Anchor chain. W. B. Ingham. 2,421,789; June 10.
- Link, Automatically adjustable force transmitting. W. H. J. Brock. 2,421,869; June 10.
- Link, Cartridge belt. R. S. Sanford and J. J. Murphy. 2,426,527; Aug. 26.
- Link, Chain. H. St. Pierre. 2,426,067; Aug. 19.
- Link chain spanner wrench. G. M. Graham. 2,420,171; May 6.
- Link construction, Swing. R. J. Burrows and A. O. Williams. 2,422,885; June 24.
- Link device, Flexible. E. Popper. 2,425,639; Aug. 12.
- Link for loom harness mechanism. C. P. Bergstrom and R. S. Schedin. 2,429,794; Oct. 28.
- Link for slat shades. H. Baldwin. 2,419,107; Apr. 15.
- Link for slings, Joiner. E. W. Taylor. 2,430,966; Nov. 18.
- Link, Fuse. J. L. Yonkers. 2,429,906; Oct. 28.
- Link, Fusible. W. L. Roessner. 2,414,243; Jan. 14.
- Link, Protective. J. K. Hodnette. 2,424,314; July 22.
- Link, Release. D. W. Cooper. 2,414,023; Jan. 7.
- Link, Self-extinguishing fuse. R. R. Pittman. 2,413,887; Jan. 7.
- Linkage, Integrating. G. S. Binckley. 2,417,966; Mar. 25.
- Linoleum, Manufacture of. J. L. Berger. 2,425,719; Aug. 19.
- Linoleum product, Fire-resistant. J. W. Kemmler. 2,428,282; Sept. 30.
- Linoleum rack. G. S. Beaulieu. 2,416,509; Feb. 25.
- Lint cotton cleaner. E. H. Brooks. 2,418,694; Apr. 8.
- Lint remover. H. T. Clark and C. J. Paterson. 2,423,962; July 15.
- Lipstick case. I. Rich. 2,415,306; Feb. 4.
- Lipstick holder. J. de Swart. 2,417,155; Mar. 11.
- Lipstick holder. J. de Swart. 2,421,250; May 27.
- Liquid and vapor separating pump. R. R. Curtis. 2,418,221; Apr. 1.
- Liquid carbonaceous materials, Hydrogenation. B. S. Greensfelder. 2,426,929; Sept. 2.
- Liquid coating compositions and coated fibrous containers. J. C. Lum. 2,414,540; Jan. 21.
- Liquid conditioning device, Congealable. R. G. Dykeman, J. C. Shaw, and A. C. Hoffman. 2,419,634; Apr. 29.
- Liquid congealing apparatus. E. H. Lutz. 2,426,515; Aug. 26.
- Liquid-containing biological materials by freezing and sublimating under low pressure in the presence of a chemical desiccant, Process and apparatus for the drying of. E. W. Flordorf and F. J. Stokes. 2,414,940; Jan. 28.
- Liquid control gear. C. G. Hebel. 2,414,302; Jan. 14.
- Liquid control gear. C. G. Hebel. 2,416,054; Feb. 18.
- Liquid control gear. F. R. Wittnebert. 2,416,366; Feb. 25.
- Liquid cooler. F. E. Lynn. 2,430,774; Nov. 11.
- Liquid cooling unit. D. L. Kaufman. 2,431,484; Nov. 25.
- Liquid dispensing apparatus. J. B. Moore and R. R. Trexler. 2,415,835; Feb. 18.
- Liquid dispensing apparatus. R. R. Trexler. 2,414,842; Jan. 28.
- Liquid dispensing device. C. A. Newman. 2,432,923; Dec. 16.
- Liquid dispensing device, with trap chamber cutoff, axially slidable only. M. Trapet. 2,429,003; Oct. 14.
- Liquid dispensing system, Portable multiple compartment. L. B. Taylor. 2,421,765; June 10.
- Liquid dispensing valve. F. W. Optiz. 2,425,161; Aug. 5.
- Liquid extraction press. E. M. Borg. 2,427,186; Sept. 9.
- Liquid foods, Method and apparatus for deaerating. P. F. Sharp, D. B. Hand, and E. S. Guthrie. 2,428,044; Sept. 30.



- Liquid from a slurry by maintaining a slurry circulation including a flow of slurry adjacent the separation interface, Apparatus and process for improving separation of clarified. W. H. Green. 2,425,372; Aug. 12.
- Liquid from a slurry by subdividing the slurry at the separation interface into a plurality of shallow streams, Apparatus and process for improving separation of clarified. W. H. Green. 2,425,371; Aug. 12.
- Liquid from solids by rotatably mounted means, Method and apparatus for separating. T. Bartholomew. 2,422,464; June 17.
- Liquid fuel burner. J. H. Jackson. 2,420,598; May 13.
- Liquid fuel burner. W. L. Sanborn. 2,433,400; Dec. 30.
- Liquid fuel, Method and apparatus for burning. R. W. De Lancey. 2,423,808; July 8.
- Liquid heater. H. J. Long. 2,433,134; Dec. 23.
- Liquid-holding device, Nonspill. A. M. Manley. 2,431,573; Nov. 25.
- Liquid level gauge. D. H. Annin. 2,418,614; Apr. 8.
- Liquid level indicating means. F. P. Scully and A. E. Mathey. 2,429,280; Oct. 21.
- Liquid-measuring dispenser. W. T. Mathis. 2,428,577; Oct. 7.
- Liquid measuring system. C. W. Peterson. 2,427,690; Sept. 23.
- Liquid mixture by means of a solvent, Separation and segregation of a material from a. A. L. Antonio. 2,417,048; Mar. 11.
- Liquid phase catalytic reactions of hydrocarbons. H. J. Passino and J. S. Rearick. 2,423,045; June 24.
- Liquid polymeric phenylalkylsiloxanes. J. F. Hyde. 2,432,665; Dec. 16.
- Liquid pumping apparatus. F. A. Solis. 2,429,898; Oct. 28.
- Liquidproof container. J. P. Stein. 2,426,797; Sept. 2.
- Liquidproof paper container. L. C. Brooks. 2,415,081; Feb. 4.
- Liquid purifier having cation exchangers communicating selectively with anion exchangers. B. V. Bhoota. 2,422,821; June 24.
- Liquid refrigerant in absorption refrigeration systems, Distributing. S. M. Bäckstrom and P. M. Köhler. 2,426,811; Sept. 2.
- Liquid-quenched switch. F. M. Clark. 2,421,241; May 27.
- Liquid sealed pipe cap. J. G. Bettencourt. 2,422,070; June 10.
- Liquid separation apparatus, Combined screening and gravity. K. M. Jones. 2,423,651; July 8.
- Liquid streams, Breaking up. D. O. Hubbard. 2,414,741; Jan. 21.
- Liquid treating apparatus. P. F. Sharp, D. B. Hand, and E. S. Guthrie. 2,428,045; Sept. 30.
- Liquid, Treatment and utilization of cashew nut shell. E. H. Freund and P. Mahler. 2,415,347; Feb. 4.
- Liquid treatment tank with concentric compartments and with distributors below the bottom surface. R. Welter. 2,426,804; Sept. 2.
- Liquid treatment with auxiliary flow of liquid to suspend and preserve a sludge blanket. F. D. Prager. 2,422,258; June 17.
- Liquid-vaporizing unit. M. P. Matsuzak. 2,428,916; Oct. 14.
- Liquid with a suspension of solids by passage thereof through a separator, regenerating the separated solids for re-use with untreated liquid, Treating a. C. L. Thomas. 2,420,761; May 20.
- Liquids, Atomizing. T. Nagel. 2,419,365; Apr. 22.
- Liquids by lignin, Purification of. W. D. Nelson. 2,415,439; Feb. 11.
- Liquids by subjecting successively confined portions of said liquid to supersonic vibrations and simultaneously bubbling oxygen through said confined portions, Purification of. I. Wolff. 2,417,722; Mar. 18.
- Liquids by use of partially thickened sludge, Process and apparatus for improving of clarification of turbid. W. H. Green. 2,429,316; Oct. 21.
- Liquids, Clarification of aqueous. J. W. Ryznar. 2,420,340; May 13.
- Liquids, Clarifying. C. W. Wilson. 2,419,930; Apr. 29.
- Liquids, Determining the viscosities of. P. N. Gardner. 2,414,864; Jan. 28.
- Liquids, Evaporation and concentration of. G. G. Zahm. 2,423,746-7; July 8.
- Liquids from solids, Rotatable means for decanting. M. T. Hoster. 2,427,967; Sept. 23.
- Liquids loaded onto fibrous vehicles in dry, free running, stable form, Edible. A. M. Zenzes. 2,430,797; Nov. 11.
- Liquids, Recovering solidified. S. B. Wiczer. 2,430,796; Nov. 11.
- Liquids with gaseous fluids in the presence of solid particles, Contacting. F. H. Blanding. 2,431,455; Nov. 25.
- Liquor disposal, Waste. B. W. Collins and E. T. Roetman. 2,414,930; Jan. 28.
- Liquor, Treating chocolate. W. T. Jones. 2,426,616; Sept. 2.
- Listening and ringing key for telephone switchboards. J. E. Bosh. 2,427,187; Sept. 9.
- Lister or bedder, Integrally mounted. W. H. Silver. 2,424,372; July 22.
- Lithographic plate with a copper image thereon, Producing a stainless steel. T. S. A. Petrén and E. K. W. Sternberg. 2,429,107; Oct. 14.
- Live bait holder. H. C. Schomaker. 2,432,940; Dec. 16.
- Live center tool. E. E. Reinsch. 2,426,566; Aug. 26.
- Load binders, Construction of. V. S. Durbin. 2,422,001; June 10.
- Load carrier and collector, Vehicular. R. Boissonnault. 2,430,973; Nov. 18.
- Load carrying means. W. A. Theal. 2,431,780; Dec. 2.
- Load carrying structure for tractors. C. C. Baldwin. 2,416,731; Mar. 4.
- Load hoisting device. C. E. Pierce. 2,415,907; Feb. 18.
- Load hook connection. C. S. Schroeder. 2,427,926; Sept. 23.
- Load moving and positioning system, Remotely controlled. L. A. Trofimov. 2,424,200; July 15.
- Load spacing assembly. C. M. Ellis. 2,419,346; Apr. 22.
- Load testing apparatus and method. R. Eksbergian and A. O. Bergholm. 2,431,295; Nov. 18.
- Load transfer unit. J. H. Jacobson. 2,417,824; Mar. 25.
- Load transmitting mechanism for railway vehicle axles. J. B. Blackburn and C. M. Angel. 2,431,364; Nov. 25.
- Loader. E. A. Drott. 2,418,251; Apr. 1.
- Loader. J. N. Fees. 2,425,695; Aug. 12.
- Loader. Le G. H. Lull. 2,415,015; Jan. 28.
- Loader and stacker, Combination pickup. S. S. Pokorny. 2,415,759; Feb. 11.
- Loader and stacker, Hydraulic. S. W. Kober. 2,421,566; June 3.
- Loader apparatus, Scraper. T. F. McCarthy. 2,414,412; Jan. 14.
- Loader, Beet. C. W. Walz, C. T. Rasmussen, and R. D. Griff. 2,432,956; Dec. 16.
- Loader, Conveyor. W. H. Farr and C. L. Eksbergian. 2,427,324; Sept. 9.
- Loader, Drum. J. A. Pool, C. M. Bartholomew, and M. V. Johnson. 2,429,193; Oct. 14.
- Loader, Farm. J. M. Hoff. 2,419,493; Apr. 22.
- Loader, Grain. D. D. Birt. 2,417,186; Mar. 11.
- Loader, Manure. E. C. Sedore. 2,427,575; Sept. 16.
- Loader, Material. R. T. Moudy. 2,429,890; Oct. 28.
- Loader, Mechanical. T. G. Nyborg. 2,422,977; June 24.
- Loader, Pickup grain. H. Werner. 2,415,617; Feb. 11.
- Loader, Powder. H. L. and E. L. Ausfahl. 2,432,645; Dec. 16.
- Loader, Shovel. L. M. Gordon. 2,429,717; Oct. 28.
- Loader, Transport. E. B. Royle. 2,429,170; Oct. 14.
- Loader unit for trucks and tractors, Detachable. J. P. Grabske. 2,418,403; Apr. 1.
- Loader, Vehicle mounted. M. Wooldridge. 2,426,544; Aug. 26.
- Loading and elevating device, Material. D. C. Jones. 2,431,047; Nov. 18.
- Loading and feeding apparatus for coils of strip metal. F. J. Wood. 2,419,699; Apr. 29.
- Loading apparatus. L. F. Arnett. 2,427,114; Sept. 9.
- Loading apparatus. W. Pirie. 2,429,071; Oct. 14.
- Loading attachment, Tractor. G. G. McNamara, Jr. 2,417,560; Mar. 18.
- Loading device for subcaliber ammunition, Belt. C. E. Hoskins. 2,420,664; May 20.
- Loading equipment, Car. P. S. Procissi. 2,428,893; Oct. 14.
- Loading machine. F. E. Hartsfield. 2,428,156; Sept. 30.
- Loading machine. W. C. McNeill, Jr. 2,427,971; Sept. 23.
- Loading machine, Bag. J. E. Socke. 2,418,142; Apr. 1.
- Loading machine, Portable. E. Barker. 2,416,893; Mar. 4.
- Loading machine. Sacked potato. E. G. Brundvold. 2,427,254; Sept. 9.
- Loading machine with cartridge push rods, Rotary belt. N. M. Edson and E. B. Hoback. 2,432,398; Dec. 9.
- Loading means for trucks. O. R. Clough. 2,428,144; Sept. 30.
- Loading mechanism for ordnance, Breech. D. W. Molins. 2,431,954; Dec. 2.
- Loading mechanism for testing machines. K. M. Lee and M. F. Lindsey. 2,416,012; Feb. 18.
- Locating and drilling fixture. J. R. Silver. 2,418,956; Apr. 15.
- Locating device. F. Rieber. 2,424,773; July 29.
- Locating equipment. R. E. Moe. 2,418,364; Apr. 1.
- Locating equipment. D. E. Norgaard. 2,432,330; Dec. 9.
- Locating equipment, Radio. G. W. Fyler. 2,429,809; Oct. 28.
- Locating system, Object. N. W. Bryant. 2,422,182; June 17.
- Locating system, Position. J. C. Schelleng. 2,416,351; Feb. 25.
- Locator and gauge, Rivet hole. L. Frank. 2,417,681; Mar. 18.
- Locator and position indicator. T. R. Pope, Sr. 2,419,162; Apr. 15.
- Locator, Feed strip. W. Sorensen. 2,432,103; Dec. 9.
- Locator, Microarea precision. J. B. Cohen and H. E. Hanson. 2,420,654; May 20.
- Locator, Position. L. W. Chubb. 2,416,155; Feb. 18.
- Locator, Sewer pipe branch. M. H. Clapper. 2,433,028; Dec. 23.
- Locator utilizable in forming metal articles. N. Hall. 2,419,134; Apr. 15.



- Lock: *See*—  
 Automatic boom lock. Master key cylinder lock.  
 Combination changing lock. Metal lock.  
 Combination lock. Nut lock.  
 Cylinder lock. Nut or bolt lock.  
 Cylindrical combination lock. Panic lock.  
 Dial lock. Releasable glider tow cable coupling lock.  
 Door lock. Reversible door lock.  
 Elevator door lock. Safe lock.  
 Gate lock. Safety lock.  
 Handle lock. Safety window lock.  
 Leg brace knee lock. Sash lock.  
 Lever lock. Tire bead lock.  
 Lubricant controlling valve spring retainer lock. Window blind lock.  
 Window lock.
- Lock. J. A. Connell. 2,427,837; Sept. 23.  
 Lock. H. J. Dequick. 2,430,391; Nov. 4.  
 Lock. R. J. Freundt. 2,420,743; May 20.  
 Lock. J. A. Johnston. 2,417,167; Mar. 11.  
 Lock. T. H. Johnstone. 2,426,104; Aug. 19.  
 Lock. J. Kaufman. 2,423,982; July 15.  
 Lock. L. J. McKnight. 2,422,795; June 24.  
 Lock. R. C. Spain. 2,431,894; Dec. 2.  
 Lock and indicator system, Electrical. W. Billman. 2,427,040; Sept. 9.  
 Lock and latch. G. A. Brinson. 2,431,105; Nov. 18.  
 Lock and signal circuit control with emergency release, Electro-manual railroad switch. O. S. Field and R. W. Hewes. 2,416,986; Mar. 4.  
 Lock construction for door structures and the like. J. A. Waller. 2,428,401; Oct. 7.  
 Lock for bicycles and the like, Extension. L. Miller. 2,430,524; Nov. 11.  
 Lock for brake slack adjusters. J. F. Shumaker. 2,427,310; Sept. 9.  
 Lock for cannon wagons, Cradle. P. S. Stevens and M. Sundnes. 2,432,974; Dec. 16.  
 Lock for dial gauges, Stem. J. Longworth. 2,415,105; Feb. 4.  
 Lock for dump scoops and the like, Toggle joint. F. B. Arps. 2,415,156; Feb. 4.  
 Lock for firearms, Breech bolt. O. H. Loomis. 2,418,946; Apr. 15.  
 Lock for gates. C. R. Dray. Re. 22,918; Sept. 23.  
 Lock for jacks, Automatic. T. A. Hammond. 2,432,096; Dec. 9.  
 Lock for machine guns, Bolt. J. L. Lochhead. 2,425,749; Aug. 19.  
 Lock for refrigerator doors. A. H. Groeger. 2,415,587; Feb. 11.  
 Lock for retractable landing gear, Safety. C. J. Turansky and J. A. Grom. 2,427,885; Sept. 23.  
 Lock for suction cleaners, Handle. E. J. Balluff. 2,422,216; June 17.  
 Lock for tools, Handle. E. C. Neal. 2,425,437; Aug. 12.  
 Lock for Venetian blinds, Cord. J. L. Hunter. 2,423,977; July 15.  
 Lock for well tools, Safety. G. M. Anderson and B. Kriegel. 2,429,910; Oct. 28.  
 Lock for wrenches. R. H. Kershaw. 2,427,608; Sept. 16.  
 Lock joint. W. E. Wilson. 2,430,200; Nov. 4.  
 Lock lubricator. J. A. Connell. 2,422,224; June 17.  
 Lock mechanism. A. S. Kendrick. 2,418,180; Apr. 1.  
 Lock nut. S. Bloomfield and R. S. Wallach. 2,425,228; Aug. 5.  
 Lock nut. M. Van Winkle, Jr. 2,431,627; Nov. 25.  
 Lock release, Emergency. G. J. Holanbek and W. L. Haines. 2,427,281; Sept. 9.  
 Lock slider, Double-pull automatic. F. Ulrich and O. Scheuermann. 2,423,210; July 1.  
 Lock structure. W. R. Schlage. 2,413,732; Jan. 7.  
 Lock structure. E. Straessli. 2,415,612; Feb. 11.  
 Lock washer. D. V. Hornsby. 2,431,480; Nov. 25.  
 Lock with extendible keyway, Right and left hand. A. Ciani. 2,430,913; Nov. 18.  
 Locked down weather surfacing elements, Button. G. A. Fasold and W. V. Leibrock. 2,429,456; Oct. 21.  
 Locking and ejecting device. O. Mueller. 2,420,146; May 6.  
 Locking and sealing means, Casket. G. C. Hillenbrand. 2,417,756; Mar. 18.  
 Locking attachment, Caster. F. H. and C. F. Forbes. 2,422,892; June 24.  
 Locking device. P. E. Bamberg. 2,424,429; July 22.  
 Locking device. E. N. Howell. 2,427,909; Sept. 23.  
 Locking device. J. E. Newton. 2,425,262; Aug. 5.  
 Locking device. O. J. Poupitch. 2,424,208; July 15.  
 Locking device. J. G. Wallace. 2,420,272; May 6.  
 Locking device. J. A. Zipser. 2,432,059; Dec. 2.  
 Locking device and making same, Threaded. R. W. Luce. 2,425,104; Aug. 5.  
 Locking device. Circuit breaker. W. M. Scott, Jr. 2,421,853; June 10.  
 Locking device for accounting machines. R. J. Moser. 2,417,563; Mar. 18.  
 Locking device for aviation trainers. W. D. Jones. 2,417,554; Mar. 18.  
 Locking device for bar knobs. M. T. Wilde. 2,418,147; Apr. 1.  
 Locking device for screws and nuts. B. Cyr. 2,431,735; Dec. 2.  
 Locking device for seats and the like. W. McArthur. 2,429,190; Oct. 14.  
 Locking device, Threaded. R. W. Luce. 2,428,463; Oct. 7.  
 Locking device, Tumbler controlled. F. Dusterwald. 2,430,711; Nov. 11.  
 Locking devices, Making threaded. R. W. Luce. 2,429,832; Oct. 28.  
 Locking equipment for barrels and containers, Bung and spigot. A. B. Wilson. 2,426,134; Aug. 19.  
 Locking latch. A. F. Lickteig. 2,423,988; July 15.  
 Locking latch. A. F. Lickteig. 2,431,814; Dec. 2.  
 Locking latch. A. Vander Henst. 2,420,13; May 6.  
 Locking means. T. C. Jackson. 2,426,219; Aug. 26.  
 Locking means. L. W. Schaaff. 2,428,341; Sept. 30.  
 Locking means for abrading and polishing machines, Strip. K. J. Hillquist. 2,424,167; July 15.  
 Locking means for pivoting-traveling outer jaw wrenches, Releasable. L. C. Mead. 2,420,714; May 20.  
 Locking means for railway car handbrakes. S. B. Haseltine. 2,429,684; Oct. 28.  
 Locking means for railway car hand brakes. S. B. Haseltine. 2,430,506; Nov. 11.  
 Locking means for railway car hand brakes. S. B. Haseltine. 2,431,750; Dec. 2.  
 Locking means, Wheel. E. W. Carr and R. H. Peterson. 2,418,396; Apr. 1.  
 Locking mechanism. A. S. Kendrick. 2,418,180; Apr. 1.  
 Locking mechanism for reciprocable control, Releasable. C. A. Arens. 2,429,383; Oct. 21.  
 Locking mechanism, Gimbal. G. G. Ensign, R. R. Lawson, E. H. Schaefer and W. M. Wochos, Jr. 2,419,768; Apr. 29.  
 Locking telescoping rod. T. L. Atkinson. 2,431,450; Nov. 25.  
 Locking unit. B. Branson. 2,433,260; Dec. 23.  
 Locomotive cooling system. T. B. Dilworth and M. M. Schalla. 2,423,929; July 15.  
 Locomotive, Steam. B. C. Monroe. 2,417,084; Mar. 11.  
 Locomotive truck pivot mechanism. A. J. Townsend. 2,433,308; Dec. 23.  
 Locomotive, Turbine. F. L. Alben. 2,424,676; July 29.  
 Log bundling apparatus. L. Nichols. 2,417,658; Mar. 18.  
 Log cabin structure. W. C. Drake. 2,416,162; Feb. 18.  
 Log carrier. C. E. Nordin. 2,420,792; May 20.  
 Log handling apparatus. R. S. Rogers, Jr. 2,418,726; Apr. 8.  
 Log sawing machine. B. E. Wilson and H. W. Savercool. 2,419,751; Apr. 29.  
 Logging bore holes. W. D. Mounce. 2,415,364; Feb. 4.  
 Logging wells, Method and apparatus for. E. A. Johnson. 2,415,636; Feb. 11.  
 Loom: *See*—  
   Hand loom. Stationary magazine  
   Narrow fabric multiple loom.  
   web loom.  
 Loom and hydraulic check therefor. O. A. Kottelman. 2,426,971; Sept. 2.  
 Loom beam. C. M. Asbill, Jr. 2,432,270; Dec. 9.  
 Loom construction, and more particularly a new and useful shed forming mechanism. A. Parton. 2,414,663; Jan. 21.  
 Loom control arm. K. E. Sanderson and L. M. Rogers. 2,424,058; July 15.  
 Loom dobby. J. D. Cash, Jr. 2,421,599; June 3.  
 Loom filling motion. H. Hoeber. 2,427,725; Sept. 23.  
 Loom harness can block. J. J. Brooks and L. J. Holloway. 2,415,623; Feb. 11.  
 Loom shuttle. E. B. Tiff. 2,423,421; July 1.  
 Loom whip roll mechanism. N. H. Fox. 2,433,039; Dec. 23.  
 Loop conductor, Sinuous. E. V. Kavanaugh. 2,417,079; Mar. 11.  
 Loop forming means for looms, Selvage. S. W. Alderfer. 2,431,978; Dec. 2.  
 Looper mechanism for sewing machines. L. M. Ballamy and R. H. Sheepshanks. 2,421,179; May 27.  
 Looping machine. J. K. McCutchen. 2,423,608; July 8.  
 Loss-of-load relaying. S. L. Goldsborough and H. P. Sleeper. 2,420,878; May 20.  
 Loud-speaker. C. T. Weibler. 2,433,250; Dec. 23.  
 Loud-speaker announcing system. C. H. Capp. 2,420,461; May 13.  
 Loud-speaker, Coaxial dual-unit electrodynamic. J. Preston. 2,426,948; Sept. 2.  
 Loudspeaker, Double disc eddy current. W. K. McIver. 2,429,068; Oct. 14.  
 Loud-speaker, Electrodynamic. J. F. Marquis and C. T. Weibler. 2,423,037; June 24.  
 Loud-speaker with pressure-equalized chamber system enclosing flux gap. H. S. Knowles. 2,429,470; Oct. 21.  
 Lounge chair. E. E. Woller. 2,423,360; July 1.  
 Low-pressure gap device. W. E. Berkey and R. Lamphere. 2,431,226; Nov. 18.  
 Low-pressure laminate. J. Delmonte. 2,419,440; Apr. 22.  
 Low-temperature luminescent lamp. R. C. Hultgren. 2,425,697; Aug. 12.  
 Low-voltage rivet heater. J. B. Loe. 2,432,580; Dec. 16.  
 Lower fifth wheel. W. C. Nabors. 2,429,483; Oct. 21.  
 Lowering device. O. W. Lundblad. 2,420,182; May 6.  
 Lubricant. E. S. Blake and K. L. Godfrey. 2,422,769; June 24.  
 Lubricant. L. D. Cahill. 2,419,253; Apr. 22.  
 Lubricant. J. F. Cook. 2,421,543; June 3.



- Lubricant. G. W. Duncan and J. C. Zimmer. 2,420,068; May 6.
- Lubricant. R. D. Herlocker, M. P. Kleinholz, and F. M. Watkins. 2,413,972; Jan. 7.
- Lubricant. R. A. Hunt, Jr. 2,420,953; May 20.
- Lubricant. B. H. Lincoln and G. D. Byrkit. 2,413,718; Jan. 7.
- Lubricant. B. H. Lincoln and J. M. Hersh. 2,417,833; Mar. 25.
- Lubricant. L. A. Mikeska and A. R. Kittleson. 2,415,833; Feb. 18.
- Lubricant. J. R. Morris. 2,417,562; Mar. 18.
- Lubricant. A. J. Morway and J. C. Zimmer. 2,417,264; Mar. 11.
- Lubricant. R. C. Palmer. 2,418,422; Apr. 2.
- Lubricant. M. Pier and F. Christmann. 2,421,082; May 27.
- Lubricant. C. F. Prutton. 2,417,087; Mar. 11.
- Lubricant. T. H. Rogers, R. W. Watson, and J. W. Starrett. 2,422,585; June 17.
- Lubricant. J. B. Stucker. Re. 22,911; Sept. 2.
- Lubricant. F. M. Watkins. 2,416,807; Mar. 4.
- Lubricant. J. C. Zimmer and G. M. McNulty. 2,417,283; Mar. 11.
- Lubricant and making same. J. S. Yule and H. L. Moir. 2,420,280; May 6.
- Lubricant and producing same. W. S. Young. 2,430,842; Nov. 11.
- Lubricant and the like. J. M. Musselman and H. P. Lankelma. 2,419,153; Apr. 15.
- Lubricant coatings to surfaces, Application of. C. M. Laffoon, Jr. 2,420,886; May 20.
- Lubricant composition. E. S. Carmichael and T. G. Roehner. 2,425,174; Aug. 5.
- Lubricant composition. A. T. Collins. 2,426,983; Sept. 9.
- Lubricant composition. W. J. Coppock. 2,426,549; Aug. 26.
- Lubricant composition. W. J. Sparks and D. W. Young. 2,424,588; July 29.
- Lubricant composition. W. A. Wright. 2,429,905; Oct. 28.
- Lubricant controlling valve spring retainer lock. R. E. Cummings. 2,419,708; Apr. 29.
- Lubricant for processing metals. J. H. Shipp, O. C. Bacon, and C. J. Pedersen. 2,420,329; May 13.
- Lubricant for processing metals. J. H. Shipp and C. J. Pedersen. 2,420,328; May 13.
- Lubricant, High temperature. D. L. Wright. 2,426,852; Sept. 2.
- Lubricant, Instrument. J. I. Wasson and J. C. Zimmer. 2,417,281; Mar. 11.
- Lubricant manufacture. A. Beerbower and J. C. Zimmer. 2,431,453; Nov. 25.
- Lubricant measuring valve. J. T. Leonard. 2,427,680; Sept. 23.
- Lubricant measuring valve. R. Wedeberg. 2,427,755; Sept. 23.
- Lubricant or the like. J. M. Musselman and H. P. Lankelma. 2,415,837; Feb. 18.
- Lubricant, Rust inhibiting. W. R. Turner. 2,413,852; Jan. 7.
- Lubricant, Saw blade. E. L. Flood. 2,419,713; Apr. 29.
- Lubricant, Synthetic. O. M. Reiff, H. D. Hartough, and H. J. Andress, Jr. 2,424,956; July 29.
- Lubricant, Timepiece. J. D. Morgan and R. E. Lowe. 2,423,844; July 15.
- Lubricants. L. W. McLennan. 2,417,430-2; Mar. 18.
- Lubricants, Diamide textile. E. A. Robinson and M. J. Kelley. 2,425,392; Aug. 12.
- Lubricants, etc., containing waxy hydrocarbons and a ketone-aromatic condensation product as wax modifier. E. Lieber and A. F. Cashman. 2,422,247; June 17.
- Lubricants, Extreme pressure. J. C. Zimmer and J. G. McNab. 2,424,204; July 15.
- Lubricants, Hydroxylated polyamide textile. E. A. Robinson and M. J. Kelley. 2,425,393; Aug. 12.
- Lubricants, Preparation of. J. M. Musselman and H. P. Lankelma. 2,422,630; June 17.
- Lubricants, Stabilized. N. D. Williams and W. J. Backoff. Re. 22,849; Mar. 4.
- Lubricant and cooling compound for cold reducing mills. A. P. Hoelscher. 2,430,400; Nov. 4.
- Lubricating and cooling compound for cold reducing mills. H. F. Miller and S. J. Moore. 2,432,784; Dec. 16.
- Lubricating apparatus. E. W. Davis. 2,425,515; Aug. 12.
- Lubricating apparatus. E. W. Davis. 2,425,867; Aug. 19.
- Lubricating apparatus, High-pressure. C. C. S. Le Clair. 2,432,969; Dec. 16.
- Lubricating composition. D. R. Frey. 2,432,095; Dec. 9.
- Lubricating composition. W. A. Jones. 2,417,826-7; Mar. 25.
- Lubricating composition. A. T. Knutson and E. F. Graves. 2,422,243; June 17.
- Lubricating composition. L. W. McLennan. 2,417,428; Mar. 18.
- Lubricating composition. L. W. McLennan. 2,417,433; Mar. 18.
- Lubricating composition. A. J. Morway and J. C. Zimmer. 2,420,902; May 20.
- Lubricating composition. J. M. Musselman. 2,419,325; Apr. 22.
- Lubricating composition. C. F. Prutton. 2,417,088; Mar. 11.
- Lubricating composition, Noncorrosive. G. D. Davis and E. J. Barth. 2,431,737; Dec. 2.
- Lubricating composition preparation. J. M. Musselman and H. P. Lankelma. 2,415,838; Feb. 18.
- Lubricating compositions. J. G. McNab, C. J. Wilson, and C. Winning. Re. 22,910; Sept. 2.
- Lubricating device. L. White. 2,421,738; June 3.
- Lubricating device, Journal. T. J. Hoy. 2,433,319; Dec. 23.
- Lubricating emulsions, Stabilized. M. D. Bray. 2,422,075; June 10.
- Lubricating fitting cap. S. Abramson. 2,430,441; Nov. 11.
- Lubricating oil. B. H. Lincoln and G. D. Byrkit. 2,415,296; Feb. 4.
- Lubricating oil, Manufacture of. J. A. Patterson. 2,432,440; Dec. 9.
- Lubricating system. W. C. Bauer. 2,430,097; Nov. 4.
- Lubricating system. L. E. Miller. 2,414,887; Jan. 28.
- Lubricating system for milling machines. E. D. Vancil and F. A. Hassman. 2,425,903; Aug. 19.
- Lubricating warp knitting machines, Cam and roller. F. Lambach. 2,425,744; Aug. 19.
- Lubrication for sewing machines, Hook. A. R. Wood. 2,431,292; Nov. 18.
- Lubricator: See—
- Automatic plug valve lubricator. Plain bearing lubricator.
- Lubricator. Rail lubricator.
- Lock lubricator. Railway lubricator.
- Picker spindle lubricator.
- Lubricator for idler bearings. H. H. Vanderzee. 2,421,530; June 3.
- Lug for guide cards. C. W. Straubel and J. S. Holbrook. 2,422,935; June 24.
- Lug, Picker stick strap. A. N. Ayers and L. E. Hamilton. 2,424,427; July 22.
- Lug strap connector. C. L. Huffman. 2,430,226; Nov. 4.
- Luggage carrier. H. H. Creamer. 2,423,297; July 1.
- Luggage carrier. G. J. Mayer. 2,425,629; Aug. 12.
- Luggage fastener. W. J. Potts and H. S. Dalrymple. 2,423,253; July 1.
- Luggage, Hand-carried. J. Riess. 2,420,150; May 6.
- Lumber and other forest products, Treatment of. J. C. Haun. 2,423,020; June 24.
- Lumber and other wood products, Treating. N. T. MacKenzie and H. E. Hall. 2,430,641; Nov. 11.
- Lumber handling device. C. W. Harshberger. 2,424,692; July 29.
- Lumber handling machine. O. L. Shook. 2,430,689; Nov. 11.
- Lumber stacker. P. G. Franklin. 2,416,050; Feb. 18.
- Luminaire. T. W. Rolph. 2,418,195; Apr. 1.
- Luminescent material. H. C. Froelich. 2,415,129; Feb. 4.
- Luminescent sulfides and selenides, Manufacturing. H. W. Leverenz. 2,421,207; May 27.
- Luminous images, Method of and apparatus for producing. G. C. Sziklai. 2,415,226; Feb. 4.
- Lunch box. B. C. and E. O. Clark. 2,417,632; Mar. 18.
- Lure, Artificial. W. H. Riggan. 2,418,527; Apr. 8.
- Lure, Artificial fishhook. O. Tallaksen. 2,431,434; Nov. 25.
- Lure, Fish. L. J. Maletta. 2,431,181; Nov. 18.
- Lure, Fishing. L. H. Pecher. 2,423,615; July 8.
- Lure, Illuminated fishing. T. R. Pope, Sr. 2,431,420; Nov. 25.
- Luting material, Heat-conductive. W. C. Ferguson and P. Sussenbach. 2,427,398; Sept. 16.
- Lutings. W. R. Downs. 2,429,872; Oct. 28.
- Machine and impact mill, Combined chipping. W. M. Sheldon. 2,418,990; Apr. 15.
- Machine attachment, Knitting. F. G. Weisbecker. 2,426,803; Sept. 2.
- Machine for ammunition belts, Combination linking and de-linking. T. M. Jervey. 2,415,561; Feb. 11.
- Machine for applying necks to collapsible tubes. F. Remington and R. A. Tartaglia. 2,431,279; Nov. 18.
- Machine for applying sole edge covers to platform shoes. E. A. Crepeau. 2,415,084-5; Feb. 4.
- Machine for assembling upholstery springs. S. Frankel. 2,414,372; Jan. 14.
- Machine for automatic development of photographic films. D. M. Wilson. 2,431,442; Nov. 25.
- Machine for automatically punching converter tuyères. G. B. Forbes. 2,425,792; Aug. 19.
- Machine for beading or flanging tubes. H. E. Hull and E. C. Hartley. 2,417,202; Mar. 11.
- Machine for bending tubes, bars, and the like. J. C. Eastes. 2,430,217; Nov. 4.
- Machine for chamfering dies. F. Judge. 2,414,377; Jan. 14.
- Machine for chamfering gears. R. E. Cross. 2,433,201; Dec. 23.
- Machine for changing the frequency of alternating currents. F. Creedy. 2,428,203; Sept. 30.
- Machine for cleaning and polishing studs and the like. E. G. Greene. 2,424,160; July 15.
- Machine for coating and opening flexible tubing. J. Frier. 2,424,445; July 22.
- Machine for coating heels. R. R. Campbell. 2,417,102; Mar. 11.
- Machine for coating insulators. E. H. Fischer. 2,422,537; June 17.



- Machine for coating paper. W. F. Grupe. 2,428,113; Sept. 30.
- Machine for coil springs, Grinding. A. T. and F. O. Hollister. 2,418,770; Apr. 8.
- Machine for constructing tanks. H. F. Kennison. 2,415,500; Feb. 11.
- Machine for continuous dry powdering or curing seeds and grain. E. H. Juliano. 2,413,976; Jan. 7.
- Machine for cutting corn from ears of corn. H. E. Le Jeune. 2,428,522; Oct. 7.
- Machine for cutting fish. K. G. V. Helldén. 2,421,262; May 27.
- Machine for cutting shaped pieces from sheet material. F. B. Collinson. 2,424,678; July 29.
- Machine for cutting shoe sole taps. P. Williams. 2,421,731; June 3.
- Machine for cutting the tops from vegetables. C. C. Rodery. 2,429,488; Oct. 21.
- Machine for die curling can end flanges. W. J. Geist. 2,433,040; Dec. 23.
- Machine for effecting relative movement between shoes and lasts. N. H. Knowlton. 2,427,357; Sept. 16.
- Machine for emptying and washing containers. O. Bjerling and R. K. Belnap, Jr. 2,418,691; Apr. 8.
- Machine for filling and otherwise preparing envelopes for post. S. C. Herbert. 2,423,146; July 1.
- Machine for finishing heels. E. Froustey. 2,417,481; Mar. 18.
- Machine for finishing irregularly shaped articles. S. A. Czarnecki. 2,426,764; Sept. 2.
- Machine for finishing metal parts. G. D. Wild. 2,418,535; Apr. 8.
- Machine for finishing the handles of shovels. G. C. Wharton. 2,425,290; Aug. 5.
- Machine for fluid treatment of fabrics. E. F. Williams and W. J. Brayden. 2,426,806; Sept. 2.
- Machine for folding and applying tape. H. J. Vachon. 2,427,240; Sept. 9.
- Machine for forming and reinforcing cutouts. L. F. Muther and F. S. Glines. 2,421,639; June 3.
- Machine for forming and winding fin strips. W. B. Bronander. 2,416,865; Mar. 4.
- Machine for forming drinking cups. E. Conti. 2,425,786; Aug. 19.
- Machine for forming spherical bodies. A. C. Mason. 2,413,880; Jan. 7.
- Machine for forming tampons. F. P. Parish. 2,433,675; Dec. 30.
- Machine for grinding long radius arcs. C. E. Hall. 2,428,215; Sept. 30.
- Machine for grinding toothed gears. A. Rickenmann. 2,424,191; July 15.
- Machine for grinding workpieces. H. L. Knapp. 2,429,517; Oct. 21.
- Machine for hardening gears. G. H. Bryan. 2,421,989; June 10.
- Machine for harvesting spinach, Agricultural. W. Romanik. 2,429,371; Oct. 21.
- Machine for icing cake or the like. D. H. Duffy. 2,431,029; Nov. 18.
- Machine for inserting fastenings. R. H. Lawson. 2,430,515; Nov. 11.
- Machine for lasting welt-type shoes. J. S. Kamborian. 2,424,239; July 22.
- Machine for machining any kind of curved surfaces. W. Heer. 2,424,031; July 15.
- Machine for making bags. H. R. Denton. 2,428,837; Oct. 14.
- Machine for making composite boards, Method and. I. Hill. Re. 22,842; Feb. 18.
- Machine for making elongated tufts. J. K. McCutchen. 2,423,607; July 8.
- Machine for making grommets. W. M. Lee. 2,422,200; June 17.
- Machine for making plywood in curved shapes. J. S. Stewart. 2,418,100; Mar. 25.
- Machine for making slide fasteners stringers. N. Dasher. 2,418,761; Apr. 8.
- Machine for making swabs. B. Schonrock. 2,430,648; Nov. 11.
- Machine for making tubular parts from strip material. A. Viehweger. 2,422,272; June 17.
- Machine for making wedge heels and the like. G. Clausen. 2,426,487; Aug. 26.
- Machine for manufacturing fabric tubing. J. Katz and F. P. Majoros. 2,415,824; Feb. 18.
- Machine for marking circular knit fabric for boarding. I. W. Grothey and F. R. Page. 2,429,458; Oct. 21.
- Machine for marking circular knit hosiery for boarding. R. J. Moody and J. E. Taylor. 2,421,638; June 3.
- Machine for marking wire. C. F. Robbins. 2,425,266; Aug. 5.
- Machine for molding plastic materials. G. W. Wacker. 2,423,914; July 15.
- Machine for opening collapsed tubular box blanks. J. Bousquet. 2,431,365; Nov. 25.
- Machine for opening hinged closure members on containers, Treating. A. E. Almgren. 2,420,642; May 20.
- Machine for operating on shoes. C. W. Baker. 2,422,711; June 24.
- Machine for operating on the soles of shoes. J. P. Fredrickson. 2,428,365; Oct. 7.
- Machine for operating upon shoes. R. H. Lawson. 2,418,891; Apr. 15.
- Machine for operating upon soles. C. E. Hood. 2,424,616; July 29.
- Machine for paring, coring, and halving pears. G. A. Dunn. 2,429,749; Oct. 28.
- Machine for peeling potatoes, Abrading. J. Meyer. 2,416,837; Mar. 4.
- Machine for piercing glass bulbs. C. Eisler. 2,414,587; Jan. 21.
- Machine for placing concrete and other materials. C. Jackson. 2,430,816; Nov. 11.
- Machines for plastics and other moldable materials, Molding. W. S. Renier. 2,416,349; Feb. 25.
- Machine for preforming plastic compounds. G. E. Kline. 2,429,268; Oct. 21.
- Machine for preparing seed potatoes for planting, Grading and cutting. W. E. Hanna. 2,420,776; May 20.
- Machine for producing shingle anchor nails and the like. J. P. Moore and M. B. Dunlap. 2,421,573; June 3.
- Machine for producing toothed discs. H. G. Keller and C. M. Young, Jr. 2,433,564; Dec. 30.
- Machine for reciprocating and rotating churn dashers. O. E. Nichols. 2,431,298; Nov. 18.
- Machine for reclaiming bearings. R. Stephens. 2,424,591; July 29.
- Machine for reclaiming deformed machine gun belt links, Bending. A. H. Brannock. 2,424,917; July 29.
- Machine for relasting shoes and slippers. J. Greenhalgh. 2,420,948; May 20.
- Machine for repositioning cartridge and link belts. E. L. Smith and C. Wetsel. 2,430,193; Nov. 4.
- Machine for rifling gun barrels. J. E. Lovely. 2,415,300; Feb. 4.
- Machine for rolling grooves in cylinders without damaging longitudinal seams, Metalworking. A. J. Barrie and R. J. Dwyer. 2,421,450; June 3.
- Machine for sealing and molding glass bulbs. C. Eisler. 2,418,763; Apr. 8.
- Machine for sealing bulbs. C. Eisler. 2,421,929; June 10.
- Machine for sealing glass bulbs. C. Eisler. 2,413,960; Jan. 7.
- Machine for setting and ejecting preformed spiral studs. V. F. Zabodiakin. 2,424,296; July 22.
- Machine for sewing moccasin type shoes. F. Ashworth. 2,415,401; Feb. 11.
- Machine for splitting piston rings. H. M. Olson. 2,433,576; Dec. 30.
- Machine for stacking drinking cups. E. Conti. 2,416,381; Feb. 25.
- Machine for stemming, splitting, peeling, and coring pears. M. Ewald. 2,418,827; Apr. 15.
- Machine for stencilling fabric with suction. H. L. Shuttleworth, G. J. Underwood, and L. R. Jones. 2,419,695; Apr. 29.
- Machine for surface conditioning metal bodies. A. J. Miller, W. C. Weidner, and J. Kolody. 2,429,326; Oct. 21.
- Machine for surface finishing action on materials. E. Freud. 2,420,876; May 20.
- Machine for surface-finishing road paving. A. S. Millikin and J. H. Apel. 2,426,702-3; Sept. 2.
- Machine for testing and assorting articles according to electrical characteristics. W. S. Reynolds. 2,430,080; Nov. 4.
- Machine for testing and assorting resistance elements. S. L. Handforth and C. R. Johnson. 2,417,488; Mar. 18.
- Machine for testing and marking parts magnetically. A. J. Newman. 2,432,786; Dec. 16.
- Machine for testing belt links. W. Sorensen. 2,428,395; Oct. 7.
- Machine for testing helical compress springs. E. C. Hartley and H. L. Ivins. 2,417,196; Mar. 11.
- Machine for textile fibers, Combing. J. W. Nasmith. 2,416,840; Mar. 4.
- Machine for the arrangement of seams. J. Katz and F. P. Majoros. 2,423,101; July 1.
- Machine for transferring bottles from a carrier swingable in an arcuate vertical path to a vertically oscillatory receptacle carrying member. S. Madsen, J. F. O'Brien and C. D. Keith. 2,431,265; Nov. 18.
- Machine for treating containers. H. R. Rich. 2,427,811; Sept. 23.
- Machine for treating hardness of metals and other materials. S. E. Weaver. 2,418,916; Apr. 15.
- Machine for treating sheet materials. D. Edgar. 2,433,352; Dec. 30.
- Machine for turning the platform covers of platform shoes, Method of and. C. G. Melanson. 2,414,885; Jan. 28.
- Machine for turning the platform covers of platform shoes, Method of and. E. J. Ray. 2,429,276; Oct. 21.
- Machine for use in the manufacture of shoes. R. H. Lawson. 2,430,880; Nov. 18.
- Machine for use in the manufacture of shoes. C. A. Robinson. 2,420,684; May 20.
- Machine for use in the manufacture of shoes. C. A. Robinson and H. A. Imhof. 2,423,852; July 15.
- Machine for washing container, Automatic. F. J. Cozzoli. 2,431,988; Dec. 2.
- Machine for winding coils, Method and. R. D. Nelson. 2,414,603; Jan. 21.
- Machine for winding yarn. J. P. Mackie. 2,417,258; Mar. 11.



- Machine for winding yarn. J. P. Mackie. 2,431,876; Dec. 2.
- Machine frameworks, Construction of. A. R. Mangnall. 2,416,058; Feb. 18.
- Machine gun cooling means. R. J. Monner. 2,416,768; Mar. 4.
- Machine gun feed. D. S. Elliott. 2,428,414; Oct. 7.
- Machine gun magazine and cradle therefor. G. A. Chadwick and P. W. Burk. 2,418,462; Apr. 8.
- Machine gun safety device. G. W. Gunner and R. J. Bartholomew. 2,429,204; Oct. 21.
- Machine having direct connected exciter with separately housed brush rigging, Hydrogen cooled. E. I. Pollard and A. M. Harrison. 2,417,783; Mar. 18.
- Machine or mechanism for generating shapes or profiles for diamonds and the like. F. C. Jearum. 2,423,777; July 8.
- Machine steadyrest, Grinding. H. A. Silven. 2,419,170; Apr. 15.
- Machine stop. W. O. O'Neal. 2,425,438; Aug. 12.
- Machine synchronizing device. W. C. Wieking. 2,415,321; Feb. 4.
- Machine that causes waist bending, Vibrating motor-driven exercising. N. D. Mininberg. 2,420,965; May 20.
- Machine tool. E. M. Bowen. 2,415,158; Feb. 4.
- Machine tool. E. P. Bullard, III, and F. H. Mussler. 2,423,223; July 1.
- Machine tool. T. B. Gibbs. 2,415,206; Feb. 4.
- Machine tool. C. H. Howland-Shearman. 2,432,522; Dec. 16.
- Machine tool. H. B. Kraut, K. F. Gallimore, and E. K. Morgan. 2,426,621; Sept. 2.
- Machine tool. A. Ruetschi. 2,423,904; July 15.
- Machine tool. J. H. Schreiber. 2,417,132; Mar. 11.
- Machine tool. C. A. Wiken and E. A. Reibig. 2,432,058; Dec. 2.
- Machine tool. L. I. Yeomans and R. P. Frye. 2,419,868; Apr. 29.
- Machine tool. C. A. Zarobsky. 2,418,387; Apr. 1.
- Machine tool control. C. Johnson. 2,422,681-2; June 24.
- Machine tool controller. W. E. Addicks and R. O. Perrine. 2,418,149; Apr. 1.
- Machine tool cutting speed indicator. R. H. Clark. 2,419,120; Apr. 15.
- Machine tool for cutting surfaces of irregular shape. J. C. Wilson. 2,424,347; July 22.
- Machine tool holder. R. B. Kinzbach. 2,433,127; Dec. 23.
- Machine tool rotary spindle stabilizer. L. V. Colwell. 2,432,383; Dec. 9.
- Machine tools, Lubrication of. W. G. Hoelscher. 2,425,281; Aug. 5.
- Machine which skips longitudinal seams, Can beading. J. F. Peters. 2,424,581; July 29.
- Machines for making blanks. C. D. Knowlton and G. F. C. Burke. 2,414,109; Jan. 14.
- Machinist's gauge. G. Koning. Re. 22,921; Sept. 30.
- Magazine. J. C. Cantley. 2,421,052; May 27.
- Magazine, Ammunition. J. C. Trotter. 2,429,497; Oct. 21.
- Magazine and feed means for fastening machines. E. P. Anstett. 2,430,321; Nov. 4.
- Magazine, Camera film. H. L. Williams. 2,427,585; Sept. 16.
- Magazine for automatic firearms. H. Lippert and O. Schalkli. 2,429,831; Oct. 28.
- Magazine for magnetic recording apparatus. J. H. Heinemann. 2,415,133; Feb. 4.
- Magazine, Thread. J. C. Schirrmacher. 2,425,836; Aug. 19.
- Magma and making the same, Stabilized. F. B. Cooper. 2,414,024; Jan. 7.
- Magnesia-containing rock, Working up refractory. R. A. Schoenlaub. 2,414,980; Jan. 28.
- Magnesia insulation and manufacture, Molded. A. M. Dinkfeld and H. F. Vieweg. 2,413,958; Jan. 7.
- Magnesia insulation, Making. A. R. McGarvey and C. C. Callis. 2,423,839-41; July 15.
- Magnesia insulation, Manufacture of. A. B. Cummins and A. M. Dinkfeld. 2,428,555; Oct. 7.
- Magnesia products, Manufacture of. P. S. Denning. 2,433,265; Dec. 23.
- Magnesium alloys, Heat treatment for. J. F. Simpson. 2,413,928; Jan. 7.
- Magnesium alloys, Surface treatment of. H. K. De Long. 2,428,749; Oct. 7.
- Magnesium and nitric oxide, Production of. T. K. Holmen. 2,415,822; Feb. 18.
- Magnesium basic carbonate. L. B. Miller. Re. 22,952; Dec. 23.
- Magnesium carbonate from calcium carbonate, Separation of. R. A. Schoenlaub. 2,433,297; Dec. 23.
- Magnesium cyanide, Producing. A. R. Frank and R. B. Booth. 2,419,931; Apr. 29.
- Magnesium for electroplating, Conditioning treatment of. H. E. Wagoner. 2,419,190; Apr. 15.
- Magnesium from insoluble alkaline earth aconitates, Elimination of. J. A. Ambler and E. J. Roberts. 2,432,223; Dec. 9.
- Magnesium hydroxide, Manufacture of crystalline. L. M. Clark and J. G. Robinson. 2,415,074; Feb. 4.
- Magnesium hydroxide, Production of concentrated slurries of. F. Elkington and H. H. Chesny. 2,419,204; Apr. 22.
- Magnesium, Reduction of. C. F. Ramseyer. 2,416,952; Mar. 4.
- Magnet. C. R. Boyd. 2,428,864; Oct. 14.
- Magnet for electricity meters, Permanent brake. A. Hungerbuehler and W. Labhardt. 2,418,261; Apr. 1.
- Magnet materials, Permanent. E. A. Nesbitt. 2,427,018; Sept. 9.
- Magnet rotor, Permanent. W. J. Morrill. 2,432,436; Dec. 9.
- Magnetic clutch. G. Girard. 2,432,234; Dec. 9.
- Magnetic clutch. T. Miller. 2,426,942; Sept. 2.
- Magnetic compass compensating field device. C. B. Dinsmore. 2,417,864; Mar. 25.
- Magnetic core, Tapered. W. E. Newman. 2,427,872; Sept. 23.
- Magnetic device. W. A. Chambers. 2,414,688; Jan. 21.
- Magnetic device. T. L. Wakley. 2,424,130; July 15.
- Magnetic drive. L. T. Rader. 2,422,040; June 10.
- Magnetic field measurements. C. H. Fay. 2,425,180; Aug. 5.
- Magnetic field strength indicator. E. P. Felch, Jr., and T. Slonczewski. 2,427,666; Sept. 23.
- Magnetic firing device. W. B. Ellwood. 2,431,319; Nov. 25.
- Magnetic focusing device. E. M. Fry. 2,416,687; Mar. 4.
- Magnetic ground device. M. Savon. 2,429,526; Oct. 21.
- Magnetic head. S. D. Ellenberger. 2,428,701; Oct. 7.
- Magnetic inspection. T. de Forest. 2,416,824; Mar. 4.
- Magnetic material, Treatment of finely divided. W. C. Ellis and A. G. Souden. 2,418,467; Apr. 8.
- Magnetic materials. H. L. B. Gould. 2,430,464; Nov. 11.
- Magnetic materials for electromagnets coils, Making cores of. M. C. Gauthier. 2,416,989; Mar. 4.
- Magnetic materials, Testing of. T. Zuschlag. 2,418,686; Apr. 8.
- Magnetic minesweeping electrode cable. C. J. Quigley. 2,419,591; Apr. 29.
- Magnetic motor starting switch. J. D. Cole. 2,428,784; Oct. 14.
- Magnetic nail puller. A. A. Reilly. 2,432,338; Dec. 9.
- Magnetic recorder. W. P. Lear. 2,424,697; July 29.
- Magnetic recording, Apparatus and method for. S. J. Begun. 2,419,195; Apr. 22.
- Magnetic recording head. M. Camras. 2,428,449; Oct. 7.
- Magnetic recording head. M. Camras. 2,431,540-1; Nov. 25.
- Magnetic recording or reproducing device. M. Camras. 2,418,543; Apr. 8.
- Magnetic recording-reproducing means and system. S. J. Begun. 2,424,218; July 22.
- Magnetic recording-reproducing means and system. S. J. Begun. 2,429,792; Oct. 28.
- Magnetic recording system, Continuous. H. Nygaard. 2,424,498; July 22.
- Magnetic reproducing means, Rotatable. A. L. W. Williams. 2,424,295; July 22.
- Magnetic shell assembly, Hollow. F. N. Jacob and M. J. Kirk. 2,422,303; June 17.
- Magnetic signal reproducing means. S. J. Begun. 2,416,279; Feb. 25.
- Magnetic structure for electrical instruments. J. R. Pattee. 2,427,571; Sept. 16.
- Magnetic switch. V. Durbin and M. Knobel. 2,431,377; Nov. 25.
- Magnetic testing device. J. A. Sams. 2,432,811; Dec. 16.
- Magnetic testing method and apparatus. J. G. Pruitt and E. R. Oberdorf. 2,428,471; Oct. 7.
- Magnetic testing, Method and apparatus for. F. B. Doane. 2,421,775; June 10.
- Magnetite in heavy-media separation, Artificial. V. Rakowsky. 2,430,186; Nov. 4.
- Magneto. C. G. Dols. 2,420,169; May 6.
- Magneto. S. R. Ellingham and A. L. Brownlee. 2,431,547; Nov. 25.
- Magneto. E. C. Kiekhafer. 2,430,057; Nov. 4.
- Magneto. R. E. Phelon. 2,427,573; Sept. 16.
- Magneto construction. F. P. Upton. 2,422,150; June 10.
- Magneto-distributor. A. C. Wall. 2,430,379; Nov. 4.
- Magneto, High-tension. O. L. Bachman. 2,420,407; May 13.
- Magneto magnetic circuit. H. R. Tragesser. 2,419,301; Apr. 22.
- Magneto, Single and multispark. F. P. Upton. 2,422,151; June 10.
- Magneto, Supercharged. E. B. Nowosielski. 2,413,993; Jan. 7.
- Magnetometer. L. L. Antes. 2,420,580; May 13.
- Magnetostrictive elements, Tuning. A. E. Lane. 2,422,425; June 17.
- Magnetostrictive signal translating apparatus. H. F. Olson and J. A. Hester. 2,414,699; Jan. 21.
- Magnetron. F. P. Blewett. 2,428,193; Sept. 30.
- Magnetron. J. P. Blewett. 2,428,612; Oct. 7.
- Magnetron. H. B. De Vore. 2,415,470; Feb. 11.
- Magnetron. C. W. Hansell. 2,424,886; July 29.
- Magnetron. E. C. Okress. 2,429,291; Oct. 21.
- Magnetron. R. C. Retherford. 2,433,481; Dec. 30.
- Magnetron. R. C. Retherford and W. L. Rast. 2,431,139; Nov. 18.
- Magnetron and circuit. C. W. Hansell. 2,427,781; Sept. 23.
- Magnetron and control. J. B. Fisk. 2,416,298; Feb. 25.
- Magnetron anode structure. P. L. Spencer. 2,417,789; Mar. 18.



- Magnetron, Cavity resonator. E. G. Linder. 2,415,253; Feb. 4.
- Magnetron, High-frequency. R. J. Bondley. 2,422,465; June 17.
- Magnetron, High-frequency. K. C. De Walt. 2,424,805; July 29.
- Magnetron, Interdigital. L. Burns. 2,432,466; Dec. 9.
- Magnetron of the resonator type, Tunable. R. B. Nelson. 2,424,496; July 22.
- Magnetron of the resonator type, Ultra high frequency. E. D. McArthur. 2,423,716; July 8.
- Magnetron vacuum tube. P. G. Chevigny. 2,419,536; Apr. 29.
- Magnetrons, High efficiency. P. L. Spencer. 2,432,827; Dec. 16.
- Magnets, Making composite permanent. W. J. Schumacker. 2,432,819; Dec. 16.
- Magnifier with transparent reflector, Multiple graticule. G. Fassin. 2,431,666; Nov. 25.
- Magnifying attachment for measuring instruments and the like. S. S. Barrows. 2,417,902; Mar. 25.
- Magnitude recorder, Plural. C. A. Blakeslee. 2,425,080; Aug. 5.
- Mailbag protector. R. W. Freed. 2,429,019; Oct. 14.
- Mail box. P. J. Arnett. 2,427,039; Sept. 9.
- Mailbox. L. W. Baker. 2,428,509; Oct. 7.
- Mailbox. L. B. Bruehlheide. 2,418,010; Mar. 25.
- Mail box. I. Cox. 2,420,699; May 20.
- Mailbox. J. R. Crossett. 2,430,916; Nov. 18.
- Mailbox. C. E. Crowe. 2,433,202; Dec. 23.
- Mailbox. R. A. Gauldin. 2,431,171; Nov. 18.
- Mailbox. A. E. Johnson. 2,416,696; Mar. 4.
- Mail box. H. Logsdon. 2,420,084; May 6.
- Mailbox. F. C. Ruetsch. 2,414,613; Jan. 21.
- Mailbox. R. U. Staley. 2,431,838; Dec. 2.
- Mail box. S. J. Travis. 2,423,532; July 8.
- Mail box for walls. H. P. Johnson. 2,426,271; Aug. 26.
- Mailbox support. R. F. Conrad and J. H. Neis. 2,433,263; Dec. 23.
- Maleic anhydride and methallyl alkyl ethers, Polymerization of. R. T. Armstrong. 2,415,400; Feb. 11.
- Malt compositions. H. F. Bauer and E. F. Glabe. 2,415,070; Feb. 4.
- Malt sprouts for use in bakeries, Treatment of. R. W. Selman, Jr., and H. S. Myers. 2,420,567; May 13.
- Mandrel. H. H. Moran. 2,414,268; Jan. 14.
- Mandrel and flattening metal tubes. C. A. Warden. 2,431,851; Dec. 2.
- Mandrel for pipe welding, Gas carrying. W. S. Schaefer. 2,433,296; Dec. 23.
- Mandrel, Honing. A. F. Hasty. 2,419,136; Apr. 15.
- Mandrel, Tube-bending. R. F. Attridge and E. J. Blouin. 2,425,298; Aug. 12.
- Mandrels, Making. S. D. Pollacek. 2,422,500; June 17.
- Manganese and manganese dioxide simultaneously, Electrolytic preparing. T. A. and D. C. Mitchell. 2,417,259; Mar. 11.
- Manganese brass, High. J. L. Rodda. 8,422,703; June 24.
- Manganese compounds, Electrolytic production of. U. Gottesmann and H. Lowenstein. 2,424,392; July 22.
- Manganese dioxide compound, Electrodepositing a. R. F. Clemens. 2,424,958; Aug. 5.
- Manganese from calcium, Removing. D. A. Tetu. 2,425,705; Aug. 12.
- Manganese from its ores, Recovering. J. Koster. 2,430,346; Nov. 4.
- Manicuring implement. R. Nalpanatian. 2,422,207; June 17.
- Manifold for engines. C. G. Barrett. 2,427,115; Sept. 9.
- Manifold for four-cycle internal-combustion engines, Exhaust. C. G. Barrett. 2,423,574; July 8.
- Manifold for internal-combustion engines. E. C. Magdeburger. 2,423,602; July 8.
- Manifold, Hot-spot. S. M. Udale. 2,430,693; Nov. 11.
- Manufacturing assembly. U. M. Falter. 2,420,660; May 20.
- Manipulatable servicing support. A. W. Kurtz. 2,417,422; Mar. 18.
- Manipulating device, Hydraulically controlled graining machine. C. Zarkin. 2,413,898; Jan. 7.
- Manipulator, Drill pipe. I. X. Calhoun. 2,416,815; Mar. 4.
- Mannikin support. R. Adler. 2,418,216; Apr. 1.
- Manometer ring balance. A. F. Sperry. 2,428,436; Oct. 7.
- Manual control apparatus. R. H. Whempner. 2,420,214; May 6.
- Manual massaging device. A. R. Marty. 2,424,699; July 29.
- Manual range gate for stroboscopic indicators. A. M. Skellett. 2,432,454; Dec. 9.
- Manually operated overrunning clutch. M. A. Bordelon. 2,433,336; Dec. 30.
- Manufacture of carbon black, Process and apparatus for the. W. E. Reardon. 2,427,509; Sept. 16.
- Map, Icosahedral. J. E. Crouch. 2,424,601; July 29.
- Map, Illuminated weather. S. E. Blewett and T. A. Gaffney. 2,417,043; Mar. 11.
- Map, Photographic. H. L. Cooke. 2,430,277; Nov. 4.
- Map projection device. L. W. Van Dusen. 2,431,847; Dec. 2.
- Marble making machine. O. G. Hanlon. 2,422,413; June 17.
- Marihuana active compounds. R. Adams. 2,419,935; May 6.
- Marihuana active compounds. R. Adams. 2,419,937; May 6.
- Marine reversing gear. O. H. Banker. 2,418,455; Apr. 8.
- Marine tower and placing the same. G. L. Kirby. 2,422,168; June 10.
- Marine type non-metallic bearing. W. M. Fountain and H. Pierce. 2,416,519; Feb. 25.
- Marker and cultivator, Circular row. C. H. Newsom. 2,419,085; Apr. 15.
- Marker and making it. G. Rodli. 2,430,534; Nov. 11.
- Marker and making same, Lifesaving dye. S. E. Bender. 2,418,392; Apr. 1.
- Marker for maps, Magnetic. L. Rado. 2,431,827; Dec. 2.
- Marker, Hydrant. W. J. Doody. 2,424,269; July 22.
- Marker, Life jacket dye. R. Collyer and A. B. Clow. 2,418,397; Apr. 1.
- Marker, Object. J. R. Matthews and W. A. Davidson. 2,422,115; June 10.
- Marker, Rule guided point. P. B. Kahn. 2,423,779; July 8.
- Marking and punching tool. P. D. Payne. 2,415,526; Feb. 11.
- Marking apparatus, Strand. C. J. Krogel. 2,428,284; Sept. 30.
- Marking device. J. L. Douglass. 2,417,865; Mar. 25.
- Marking device, Slab. F. Winterkamp. 2,418,213; Apr. 1.
- Marking implement holder. A. Gloede. 2,428,213; Sept. 30.
- Marking machine and cutting blade, Combined. O. M. Bradley. 2,428,510; Oct. 7.
- Marking machine, Pneumatically operated. S. Kovach. 2,427,358; Sept. 16.
- Marking tool. E. G. R. Gustafsson. 2,424,162; July 15.
- Markings in a ferrous article, Forming engraved. C. W. Mell. 2,415,361; Feb. 4.
- Mask. H. R. Bierman and G. E. Beckwith. 2,414,405; Jan. 14.
- Mask, Driving. M. J. Zbar. 2,420,281; May 6.
- Mask for typewriter or like machine. L. C. Myers. 2,425,485; Aug. 12.
- Mask, Make-up protector. B. Klein. 2,432,767; Dec. 16.
- Mask, Oronasal. F. E. Randall. 2,415,846; Feb. 18.
- Mask, Protective. J. Coccillato. 2,418,334; Apr. 1.
- Mask structure. A. H. Bulbulian. 2,433,088; Dec. 23.
- Mask, Welder's. W. Leser. 2,418,415; Apr. 1.
- Mask, Welder's. L. Lieg. 2,419,649; Apr. 29.
- Masking paper such as for lithography. F. A. Marty. 2,429,271; Oct. 21.
- Masking, Photographic. J. A. C. Yule. 2,420,636; May 13.
- Massage apparatus. W. Rocke. 2,432,211; Dec. 9.
- Massager, Scalp. E. E. Farley. 2,419,062; Apr. 15.
- Massaging device, Electrical. E. M. Konig. 2,427,610; Sept. 16.
- Mast. H. Cohen. 2,431,610; Nov. 25.
- Master key cylinder lock. G. E. Swanson. 2,422,600; June 17.
- Mat, Hinged road. W. E. White. 2,417,578; Mar. 18.
- Mat, Mixing. J. A. Taylor. 2,426,249; Aug. 26.
- Mat welding device. J. A. Fotie. 2,422,829; June 24.
- Match. B. A. Weyl. 2,432,220; Dec. 9.
- Match-book making machine. N. E. Garrison. 2,415,204; Feb. 4.
- Match pack container. A. H. Patten. 2,427,367; Sept. 16.
- Matching device, Impedance. P. S. Carter. 2,428,485; Oct. 7.
- Material and cover thereby, Packaging. M. R. Coe. 2,418,818; Apr. 15.
- Material containing columbium and tantalum, Treating. W. J. Kroll and F. E. Bacon. 2,427,360; Sept. 16.
- Material feeder. M. C. Joslyn. 2,416,099; Feb. 18.
- Material for footwear, making the same, and improved footwear, Laminated elastic. E. A. Stuart. 2,424,777; July 29.
- Material for gettering electron discharge devices. E. N. Bobrow. 2,421,984; June 10.
- Material for treating boiler feedwater and preparation thereof. T. L. Pankey and C. E. Imhoff. 2,430,300; Nov. 4.
- Material for use in tumbling barrel polishing operations. G. E. Huenerfauth, F. P. Green, and G. J. Yochim. 2,431,870; Dec. 2.
- Material forming apparatus. J. W. Juvinall and J. S. Stull. 2,415,499; Feb. 11.
- Material handling. R. F. Hlavaty. 2,428,709; Oct. 7.
- Material handling apparatus. C. C. Coleman. 2,417,544; Mar. 18.
- Material handling apparatus. G. Davis. 2,427,351; Sept. 16.
- Material handling apparatus. G. B. Palmer. 2,425,342; Aug. 12.
- Material handling apparatus. F. H. Van Doorninck. 2,413,933; Jan. 7.
- Material handling machine. B. S. Ferguson. 2,414,146; Jan. 14.
- Material-handling machine. C. R. Koehl and R. Messner. 2,415,892; Feb. 18.
- Material, Improving the fastness of dyed. R. W. Jacoby. 2,431,562; Nov. 25.
- Material-perforating and eyelet-setting apparatus. O. Stenson. 2,415,769; Feb. 11.
- Material serving apparatus. H. H. Merwin and G. C. Spillman. 2,430,358; Nov. 4.



- Material treating mechanism. H. E. Vogell. 2,423,629; July 8.
- Material unloading and conveying mechanism for trucks. J. W. Davis. 2,419,824; Apr. 29.
- Materials, Adhesively joining. L. L. Blyler. 2,427,519; Sept. 16.
- Materials containing tantalum and niobium, Treatment of. F. Cuvellez. 2,429,671; Oct. 28.
- Materials from grinding dusts and sludges, Separating valuable. W. E. Keck. 2,428,228; Sept. 30.
- Materials specimen marking device. A. Sonntag. 2,424,338; July 22.
- Matrices, Forming casting. Z. V. Brantley. 2,432,377; Dec. 9.
- Matter from magnesium surfaces, Removing foreign. R. Shawcross. 2,418,955; Apr. 15.
- Matter, its preparation and utilization, Composition of. P. M. Ruedrich. 2,428,340; Sept. 30.
- Mattress. T. S. Cobb. 2,425,728; Aug. 19.
- Mattress or the like. E. L. Pabst. 2,433,321; Dec. 23.
- Measurement of a resolving power of Schmidt telescopes. L. T. Sachtleben. 2,431,424; Nov. 25.
- Measurement of distance by frequency-modulated carrier wave. E. W. Yetter. 2,418,538; Apr. 8.
- Measurement of leakage resistance in electrolytic cell systems. V. F. Hanson. 2,432,013; Dec. 2.
- Measurement of thickness. K. C. Crumrine. 2,425,512; Aug. 12.
- Measurement of time intervals, Precise. G. J. Lehmann. 2,416,333; Feb. 25.
- Measuring and control apparatus. G. A. F. Machlet. 2,414,314; Jan. 14.
- Measuring and controlling apparatus. H. S. Jones. 2,429,466; Oct. 21.
- Measuring and controlling apparatus. F. W. Side. 2,418,052; Mar. 25.
- Measuring and controlling system. A. J. Hornfeck. 2,420,539; May 13.
- Measuring and dispensing apparatus, Liquid. W. H. deLancey. 2,427,551-2; Sept. 16.
- Measuring and dispensing container. J. T. Brubaker. 2,425,142; Aug. 5.
- Measuring and recording apparatus, Strain. A. V. de Forest. 2,416,090; Feb. 18.
- Measuring apparatus. L. E. J. Blomberg. 2,414,354; Jan. 14.
- Measuring apparatus, Distance. H. T. Winchel. 2,422,382; June 17.
- Measuring apparatus, Distance and direction. E. J. Isbister. 2,414,469; Jan. 21.
- Measuring apparatus, Electrical. C. Anderson. 2,426,383; Aug. 26.
- Measuring apparatus, Electrical. C. S. Tegge. 2,420,574; May 13.
- Measuring apparatus, Fluid flow. L. E. Crosby and C. W. Trautman. 2,414,582; Jan. 21.
- Measuring apparatus for ultra-high frequency energy. W. E. Bradley. 2,430,664; Nov. 11.
- Measuring apparatus, High-frequency phase. W. W. Hansen and M. Relson. 2,416,310; Feb. 25.
- Measuring apparatus, Liquid density. J. F. Maienschein. 2,418,592; Apr. 8.
- Measuring apparatus, Multirange load. H. Schaevitz. 2,421,222; May 27.
- Measuring apparatus, Time. G. L. Hollingsworth. 2,433,667; Dec. 30.
- Measuring device. E. B. McGreal. 2,415,257; Feb. 4.
- Measuring device, Dimension. H. E. Goldstine. 2,421,933; June 10.
- Measuring device, Dovetail. J. M. Pozar. 2,431,826; Dec. 2.
- Measuring device, Efficiency. C. J. Crane. 2,420,656; May 20.
- Measuring device, Electrical. L. M. Plym. 2,418,424; Apr. 1.
- Measuring device, Linear. C. H. M. Thorpe. 2,421,440; June 3.
- Measuring device, Liquid level. J. J. Dávalos. 2,419,709; Apr. 29.
- Measuring device, Torque. B. F. Langer. 2,431,260; Nov. 18.
- Measuring distance, Method and apparatus for. F. C. P. Henroteau. 2,415,591; Feb. 11.
- Measuring element. P. J. Moore. 2,415,187; Feb. 4.
- Measuring high frequency energy, Method and means for. W. E. Bradley and G. Daly. 2,429,200; Oct. 21.
- Measuring instrument. R. H. Sachtleber. 2,422,931. June 24.
- Measuring instrument, Dynamometer type electrical. V. L. Weaver. 2,419,100; Apr. 15.
- Measuring instrument, Electrical. F. J. Lingel. 2,416,835; Mar. 4.
- Measuring instrument, Electrical. F. J. Lingel. 2,426,777; Sept. 2.
- Measuring instrument, Electrical. M. S. Wilson and F. M. Learned. 2,430,317; Nov. 4.
- Measuring instrument, Electrostatic potential. J. Handley. 2,423,100; July 1.
- Measuring instrument, Hardness. J. G. Zuber. 2,421,449; June 3.
- Measuring instrument, Level. G. E. Holton. 2,423,317; July 1.
- Measuring means, Automatic sonic. G. M. Rassweiler and W. S. Erwin. 2,431,234; Nov. 18.
- Measuring means, Supersonic. W. S. Erwin. 2,431,233; Nov. 18.
- Measuring, recording, and controlling apparatus. J. A. Caldwell. 2,423,479; July 8.
- Measuring stick coupler. B. B. DeMasters. 2,429,871; Oct. 28.
- Measuring system, Absorption gas microwave. W. D. Hershberger. 2,423,383; July 1.
- Measuring system, Distance. C. W. Earp. 2,423,088; July 1.
- Measuring system, Distance and direction. E. F. Turner, Jr. 2,418,490; Apr. 8.
- Measuring system, Flux. E. M. Irwin. 2,418,553; Apr. 8.
- Measuring system, Pulse distance. W. F. Hoisington. 2,429,623; Oct. 28.
- Measuring system, Temperature. E. M. Smith. 2,428,129; Sept. 30.
- Measuring system, Time. E. Bruce. 2,422,654; June 24.
- Measuring system, Time. G. Hecht. 2,422,655; June 24.
- Measuring system, Time. O. R. Miller. 2,422,698; June 24.
- Measuring systems of the pulse reflection type, Object locating distance. R. O. Wise. 2,428,058; Sept. 30.
- Measuring table. H. Becker and H. Broschke. 2,422,611; June 17.
- Measuring tape feed. A. J. Bohnengel. 2,425,724; Aug. 19.
- Measuring tapes, Making. E. J. Witchger. 2,426,962; Sept. 2.
- Meat carriage drive for slicing machines. J. Folk. 2,431,391; Nov. 25.
- Meat, Cooking. R. A. Coffman. 2,423,964; July 15.
- Meat, Corned. H. H. McKee. 2,416,190; Feb. 18.
- Meat mold. F. H. Hoy. 2,431,253; Nov. 18.
- Meat package and preparing the same. E. Vogt. 2,423,861; July 15.
- Meat product and making the same. G. J. Kellermann. 2,430,818; Nov. 11.
- Meat Tendering. V. L. Tichy. 2,418,914; Apr. 15.
- Meat treatment. H. H. McKee, N. J. Dziedzic, and C. L. Straeten. 2,420,549; May 13.
- Mechanical activation. M. C. Shaw. 2,416,717; Mar. 4.
- Mechanical aerating device. A. C. Durdin, III. 2,421,191; May 27.
- Mechanical clutch. O. J. Eisele. 2,418,292; Apr. 1.
- Mechanical connections for electrical circuits. F. J. W. Jansen. 2,427,144; Sept. 9.
- Mechanical device for converting rotary motion into reciprocatory motion, and vice versa. J. H. McIlrath. 2,431,493; Nov. 25.
- Mechanical device for locking together the matching surfaces of prefabricated panels. I. F. Sprunger. 2,430,961; Nov. 18.
- Mechanical equivalent of heat apparatus. F. W. Lancaster. 2,427,289; Sept. 9.
- Mechanical finger. A. Broste. 2,429,866; Oct. 28.
- Mechanical horse. H. K. Sylvester. 2,421,091; May 27.
- Mechanical movement. B. B. Murad and J. S. Barbic. 2,421,901; June 10.
- Mechanical movement. C. F. Wallace. 2,431,098; Nov. 18.
- Mechanical movements. T. H. Thompson. 2,414,003; Jan. 7.
- Mechanical power unit. P. C. Hutton. 2,420,825; May 20.
- Medicinal preparations containing sulfonamides. J. K. Dixon and R. L. Morgan. 2,429,404; Oct. 21.
- Mechanical pressure gauge. N. T. Volsk. 2,429,248; Oct. 21.
- Mechanical stop device. E. D. Mead and F. M. Thomas. 2,417,434; Mar. 18.
- Mechanism for aligning the edges of sheet material. J. H. Roy. 2,413,891; Jan. 7.
- Mechanism for controlling electric circuits. B. L. Frederick. 2,417,368; Mar. 11.
- Mechanism for controlling the drawer carrying the coils of a wireless receiver. J. C. Roger-Petit. 2,427,745; Sept. 23.
- Mechanism for controlling welding current. R. J. Miller. 2,430,989; Nov. 18.
- Mechanism for developing printed materials. G. L. Hassler. 2,431,041; Nov. 18.
- Mechanism for digging trenches. F. A. Engel and D. J. Manning. 2,430,048; Nov. 4.
- Mechanism for duplicating machines, Block-in. R. R. Rockhill. 2,415,038; Jan. 28.
- Mechanism for ejecting completed jackets from mandrels. J. Cutler. 2,423,486; July 8.
- Mechanism for feeding or propelling bodies of uniform cross-section. L. C. Collyer. 2,427,659; Sept. 23.
- Mechanism for fruit juice machines, Fruit-feeding. C. Z. Monroe. 2,433,619; Dec. 30.
- Mechanism for grinding machines, Table reversing. S. E. Woodbury. 2,416,861; Mar. 4.
- Mechanism for guns, Muzzle cover operating. C. W. Greene. 2,417,300; Mar. 11.
- Mechanism for indicating azimuthal movement of a periscope. W. W. Willard. 2,418,799; Apr. 8.
- Mechanism for indicators, Resetting. J. E. Bevins. 2,433,541; Dec. 30.
- Mechanism for industrial truck, Lifting. C. S. Schroeder. 2,417,018; Mar. 4.
- Mechanism for intermittently advancing film. T. S. Briskin and J. J. Golick. 2,419,759; Apr. 29.



- Mechanism for looms, Automatic shuttle change. F. Llovera. 2,425,103; Aug. 5.
- Mechanism for machine tools, Drive. W. F. Ridgway. 2,433,786; Dec. 30.
- Mechanism for motor vehicles, Loading and unloading. R. A. Chadwick, Jr. 2,433,598; Dec. 30.
- Mechanism for numeral wheels, Electromagnetic stepping. J. Handley. 2,433,608; Dec. 30.
- Mechanism for platen printing presses, Inking. C. F. Root. 2,424,903; July 29.
- Mechanism for portable hoists and excavators, Steering. E. W. Barnhart. 2,417,963; Mar. 25.
- Mechanism for precision switches. E. A. Miller. 2,428,172; Sept. 30.
- Mechanism for presses, Operating. I. Patrick. 2,417,781; Mar. 18.
- Mechanism for printing presses, Inking. C. F. Root. 2,424,902; July 29.
- Mechanism for pumps, Vacuum relief. A. V. Mueller. 2,416,590; Feb. 25.
- Mechanism for rail and other wheeled vehicles, Stabilizing. C. K. Steins and W. M. Keller. 2,417,526; Mar. 18.
- Mechanism for railway trucks and the like, Stabilizing. H. E. Tucker. 2,422,638; June 17.
- Mechanism for retracting and automatically locking undercarriages of aircraft. J. Martin. 2,422,576; June 17.
- Mechanism for spinning, twisting, and like textile frames, Flyer-leg aligning. H. A. Boyd and M. Warnock. 2,416,430; Feb. 25.
- Mechanism for the advancement of the carriage of typewriters and the like. R. L. R. R. Geirnaert. 2,421,930; June 10.
- Mechanism for the formation of breather openings in knitted stocking fabrics. W. D. White and G. W. Graff. 2,421,473; June 3.
- Mechanism for toilet bowls, Ventilating. O. R. Oehring. 2,432,208; Dec. 9.
- Mechanism for tractors, Power steering. R. I. Hoyle. 2,424,617; July 29.
- Mechanism with intermittent release of a driving work. P. Vannini. 2,426,801; Sept. 2.
- Mechanisms for calculating machines, Selective normalizing. H. T. Avery. 2,416,809; Mar. 4.
- Megaphone, Electric. H. C. Dalrymple. 2,428,147; Sept. 30.
- Melamines and substituted melamines with alkylene oxides, Condensation products of. W. P. Ericks. 2,414,289; Jan. 14.
- Mellower, Crown. R. G. Segsneider and H. H. Kaufman. 2,427,232; Sept. 9.
- Melting of coating on continuous metallic strip, Automatically controlling the. R. W. Holman, G. R. Myers, and G. H. Rencel. 2,419,214; Apr. 22.
- Memorandum folder. D. A. Shaw. 2,428,388; Oct. 7.
- Memorandum pad holder. F. H. Kiser. 2,417,935; Mar. 25.
- Menthadiene-7-carbinols and product thereof, Treatment of. J. P. Bain and A. H. Best. 2,428,352; Oct. 7.
- Menthethetriol, Producing. J. E. Reese. 2,423,851; July 15.
- Mercaptan extraction. C. E. Adams and T. B. Tom. 2,425,776; Aug. 19.
- Mercaptan extraction. R. T. Bell. 2,430,269; Nov. 4.
- Mercaptan from hydrocarbon oil, Extraction of. C. E. Adams and T. B. Tom. 2,425,777; Aug. 19.
- Mercaptans from olefins and hydrogen sulfide, Producing. W. A. Schulze. 2,426,646; Sept. 2.
- Mercaptans from petroleum naphtha, Removal of. M. C. K. Jones. 2,420,544; May 13.
- Mercaptans, Production of pure. H. E. Drennan. 2,422,826; June 24.
- Mercaptothiazole, Preparing unsubstituted. P. C. Jones. 2,426,397; Aug. 26.
- Merchandise display case. H. P. Glass. 2,430,635; Nov. 11.
- Merchandise, Transportation of. J. M. Moon. 2,414,160; Jan. 14.
- Mercuriated ( $\alpha,\alpha,\gamma,\gamma$ -teramethyl) butyl-phenols. J. B. Niederl. 2,415,754; Feb. 11.
- Mercury doser. G. A. Freeman and H. J. Conlin. 2,429,203; Oct. 21.
- Mercury into a discharge device by means of a capillary tube and a by-pass connection, Method and apparatus for introducing. A. W. Wainio. 2,433,177; Dec. 23.
- Mercury oxide catalyst, Preparing a. L. F. Salisbury. 2,426,792; Sept. 2.
- Mercury switch. E. W. Rickmeyer. 2,431,964; Dec. 2.
- Mercury vapor tube. G. S. Evans. 2,419,128; Apr. 15.
- Mercury vapor tube. J. E. White. 2,431,152; Nov. 18.
- Mesh fabric, Weaving wide. H. Kittner. 2,418,775; Apr. 8.
- Metacresol from paracresol, Separation of. F. E. Cislak and M. M. Otto. 2,432,062; Dec. 2.
- Meta-di-tert-butylbenzene. C. E. Johnson and C. E. Adams. 2,429,691; Oct. 28.
- Metal articles and making the same, Electroplated corrosion proof. D. H. Schantz. 2,419,231; Apr. 22.
- Metal articles, Detecting flaws in. R. Bloom, Jr., E. N. Klemgard, B. Ronay, and R. W. Miller. 2,420,646; May 20.
- Metal articles, Heat treatment of. A. E. Shorter. 2,429,776; Oct. 28.
- Metal and attaching it to a support, Forming. A. W. Franklin. 2,431,393; Nov. 25.
- Metal bodies in transit, Method of and apparatus for cladding. H. H. Dyar. 2,414,511; Jan. 21.
- Metal cladding by spraying. C. Batcheller. 2,414,923; Jan. 28.
- Metal coating apparatus. H. Dobrin. 2,414,860; Jan. 28.
- Metal coating metal pipes by electric fusion, Method of and apparatus for. O. R. Carpenter and H. J. Kerr. 2,427,350; Sept. 16.
- Metal complexes of azo dyes and production. H. E. Woodward. 2,416,248; Feb. 18.
- Metal container. W. F. Bayne. 2,417,464; Mar. 18.
- Metal cupping process. G. R. Eckstein. 2,415,940; Feb. 18.
- Metal-cutting system. P. G. Chevigny. 2,421,011; May 27.
- Metal drawing apparatus. R. W. Andrews, Jr., and A. T. Deily. 2,419,870; Apr. 29.
- Metal, Fastening together sheets of expanded. W. E. Mack. 2,415,830; Feb. 18.
- Metal, Fastening together sheets of expanded. T. S. Okonski. 2,414,483; Jan. 21.
- Metal, Fastening together sheets of expanded. T. S. Okonski. 2,419,910; Apr. 29.
- Metal-glass and the like seals. W. T. Gibson. 2,423,066; June 24.
- Metal-glass joint. O. Pressel and G. A. M. Diepstraten. 2,431,277; Nov. 18.
- Metal halide vapors from a hydrocarbon reaction product, Removing. C. O. Meyers. 2,428,981; Oct. 14.
- Metal halides, Making. H. V. Farr. 2,415,346; Feb. 4.
- Metal halides, Purifying. B. C. Meyers. 2,415,958; Feb. 18.
- Metal handling. F. M. Stalmaker and P. P. Shaver. 2,420,625; May 13.
- Metal hook. M. T. Bumgarner. 2,421,990; June 10.
- Metal hose, Making flexible. K. H. Evert. 2,413,816; Jan. 7.
- Metal-lined portable wooden tank. R. E. Gilmore. 2,417,979; Mar. 25.
- Metal lock. C. M. Overton. 2,415,905; Feb. 18.
- Metal members, Method and apparatus for pressure welding. E. B. Scherl. 2,415,912; Feb. 18.
- Metal mold. M. C. Jay. 2,424,931; July 29.
- Metal molding material, Making. I. W. Cox. 2,425,919; Aug. 19.
- Metal moulds for electrotyping, Manufacture of composite. E. G. Deye. 2,433,653; Dec. 30.
- Metal on glass from metal formates, Deposition of. E. C. Marboe. 2,430,520; Nov. 11.
- Metal parts, Prevention of seizure of. W. A. Bychinsky, J. T. Ford, and W. S. Kirk. 2,419,252; Apr. 22.
- Metal phthalocyanines having amino- or nitro-phenyl groups attached to their aromatic nuclei by O, CO, or SO<sub>2</sub>. N. H. Haddock, A. Parkinson, and G. A. Rowe. 2,414,374; Jan. 14.
- Metal plate dimpling machine. L. C. Huck. 2,431,935; Dec. 2.
- Metal powder, Consolidation of. R. D. Hall and J. H. Ramage. 2,431,690; Dec. 2.
- Metal, Progressively perforating a sheet of. J. R. Throp. 2,414,567; Jan. 21.
- Metal, Purifying. P. H. Brace. 2,432,856; Dec. 16.
- Metal removing tool. W. J. Blazek. 2,432,855; Dec. 16.
- Metal removing tool. W. H. Evans. 2,421,490; June 3.
- Metal rolling mill universal spindle coupling. R. G. Stewart, Sr. 2,420,573; May 13.
- Metal screen. W. G. Cartter and H. A. Duffy. 2,421,743; June 10.
- Metal strip, Hot coating. W. E. Marshall. 2,430,475; Nov. 11.
- Metal strip, Shearing of. L. Iversen. 2,415,428; Feb. 11.
- Metal sulfonates, Production of divalent. J. C. Showalter. 2,414,773; Jan. 21.
- Metal sulphide catalysts in the vapor phase treatment of mineral oils, Application of. Z. V. Jasaitis and D. D. Davidson. 2,414,951; Jan. 28.
- Metal surface treatment. S. P. Waugh. 2,433,311; Dec. 23.
- Metal surfaces and product thereof, Treatment of. F. B. Wells. 2,417,028; Mar. 4.
- Metal surfaces, Polishing. S. E. Eaton. 2,416,294; Feb. 25.
- Metal table. E. C. Booth. 2,427,185; Sept. 9.
- Metal, Thermochemically cutting. G. M. Deming. 2,415,815; Feb. 18.
- Metal to loop formation, Method and apparatus for bending. W. R. Oyston. 2,419,418; Apr. 22.
- Metal, Treating composite. C. R. Talmage. 2,423,857; July 15.
- Metal-working machine. A. Buchheim. 2,429,387; Oct. 21.
- Metal-working machine. H. G. Kellogg. 2,429,821; Oct. 28.
- Metal working machine. E. W. Laisne. 2,423,941; July 15.
- Metal working machine. N. B. Smith. 2,417,091; Mar. 11.
- Metaldehyde, Preparing. R. S. Wilder. 2,426,961; Sept. 2.
- Metallic article and making same, Corrosion-resistant. J. S. Thompson and R. R. Tanner. 2,418,608; Apr. 8.
- Metallic band, Resiliently expansible multisectional. M. Flaig. 2,433,657; Dec. 30.
- Metallic disk structures, Making. S. K. Wellman. 2,432,842; Dec. 16.



- Metallic drawer cabinet. C. L. Dewey. 2,414,095; Jan. 14.
- Metallic gratings, Making. R. E. Lave. 2,423,896; July 15.
- Metallic member for joining wooden elements in demountable interlocking relation. W. A. Bockius. 2,416,371; Feb. 25.
- Metallic ore sintering furnace. J. A. Savage. 2,429,372; Oct. 21.
- Metallic phenolate salt of a hydroxyaryalkylamine product, Preparing a. C. L. Fleming, Jr., and J. G. McNab. 2,414,729; Jan. 21.
- Metallic printing screens, Making. H. B. Fowler. 2,421,607; June 3.
- Metallic railing construction. J. T. Edwards. 2,431,546; Nov. 25.
- Metallic surface layers, Production of. M. Auwäter. 2,422,609; June 17.
- Metallic vapors, Method and apparatus for condensing. T. Griswold, Jr., and T. H. McConica, III. 2,416,255; Feb. 18.
- Metallic vapors, Method and apparatus for condensing. T. Griswold, Jr., and T. H. McConica, III. 2,416,992; Mar. 4.
- Metallizing machine. R. Rory. 2,424,418; July 22.
- Metallurgical apparatus. D. K. Ferris. 2,428,068; Sept. 30.
- Metallurgical apparatus. H. E. McDonnell. 2,418,654; Apr. 8.
- Metals, Black finishing. H. Nechamkin. 2,415,651; Feb. 11.
- Metals, Electroforming of. A. Westin. 2,430,092; Nov. 4.
- Metals, Electrolytic refining of. K. A. Lindner, W. M. Morrison and A. Busche. 2,421,209; May 27.
- Metals, Evaporating. W. H. Colbert and A. R. Weinrich. 2,432,657; Dec. 16.
- Metals in lead sulfamate bath, Anodizing iron group. E. W. Schweikher. 2,430,304; Nov. 4.
- Metals, Method and electrolyte for the electro-deposition of. J. A. Henricks. 2,424,387; July 29.
- Metals, Nondestructive electrical testing of. C. Farrow. 2,415,789; Feb. 11.
- Metals of different electrical resistivities, Electric welding. R. W. Rosendale. 2,432,631; Dec. 16.
- Metals, Production of. A. M. Gronningsaeter. 2,426,607; Sept. 2.
- Metals to improve resistance to rusting, Treatment of ferrous. G. K. Bergstein. 2,431,728; Dec. 2.
- Metals, Treatment of. W. M. Roberds. 2,433,627; Dec. 30.
- Metals with Noble gases, Method for treating. G. R. Burkhardt. 2,426,814; Sept. 2.
- Metalworking machine. H. L. Knapp. 2,431,126; Nov. 18.
- Metalworking machine. J. Weckstein. 2,433,076; Dec. 23.
- Metalworking tool. S. D. Vaughn. 2,415,267; Feb. 4.
- Metalworking tool. G. West. 2,430,263; Nov. 4.
- Meter: See—
- Beer meter. Miniature electric meter.
- Cab meter. Parking meter.
- Compound meter. Peak transient meter.
- Computing and billing meter. Pendulum escapement coin-controlled parking meter.
- Cross pointer meter. Radio distance meter.
- Demand meter. Reverberation meter.
- Drift meter. Torque meter.
- Fluid meter. Ultra high frequency wave meter.
- Frequency controlled frequency meter. Vertical axis type mixing and chasing mill.
- High-frequency wave meter. Wave meter.
- Induction type electricity meter. Wheatstone bridge meter.
- Meter box. E. G. Johansson. 2,429,093; Oct. 14.
- Meter box display, Parking. C. M. Williams. 2,421,917; June 10.
- Meter for measuring moisture content. P. H. Odessey. 2,422,742; June 24.
- Meter indicator photographic recording instrument. A. H. Andrews, Jr. 2,427,342; Sept. 16.
- Meter pivot. R. D. Hickok and L. D. Montgomery. 2,427,529; Sept. 16.
- Meter recorder and cost computer. W. J. Pearson. 2,425,072; Aug. 5.
- Metering apparatus, High-voltage. S. B. Griscom. 2,431,244; Nov. 18.
- Metering apparatus, Steam. C. P. Xenis, L. A. Pagano, and H. A. Bauman. 2,431,722; Dec. 2.
- Metering device, Auxiliary charge. S. B. Smith. 2,431,590; Nov. 25.
- Metering device, Remote electric. M. E. Butler. 2,430,387; Nov. 4.
- Metering, in its bubble-free state, a bubble-containing fluid, Method and apparatus for. W. W. Heckert. 2,424,750; July 29.
- Metering system, Multiple self-balancing. H. M. Schmitt. 2,427,881; Sept. 23.
- Metering system, Remote-control. W. R. Dresser. 2,419,487; Apr. 22.
- Methionine, Purification of. H. S. Lecky. 2,432,429; Dec. 9.
- Methyl acrylate, Preparation of. H. J. Hagemeyer, Jr. 2,417,748; Mar. 18.
- Methyl chloride, Purification of. E. A. Thronson and A. I. Mendolia. 2,421,441; June 3.
- Methyl ester of m-dymethylamino benzoic acid, Making the. C. S. Adams. 2,415,230; Feb. 4.
- Methyl methacrylate polymer laminated to a polyvinyl butyral by means of silicic adhesive. M. L. Ernaberger and P. S. Pinkney. 2,418,018; Mar. 25.
- Methyl methacrylate, Polymerization of. D. A. Fletcher and F. L. Johnston. 2,418,828; Apr. 15.
- Methyl vinyl polysiloxane-methyl methacrylate copolymers. G. F. Roedel. 2,420,911; May 20.
- Methylcyclohexenes, Manufacture of. A. G. Oblad and E. Gorin. 2,430,137; Nov. 4.
- Methylcyclopentene dimer, Process for preparing a. A. E. Bearse and J. E. Leonard. 2,419,668; Apr. 29.
- Methylene derivatives of hydantoin, Preparing. J. F. Walker. 2,418,000; Mar. 25.
- Methylolstearamides, Self-dispersing. H. L. Sanders. 2,431,202; Nov. 18.
- Mica rings, Making. L. L. Howard. Re. 22,954; Dec. 30.
- Mica splitting process and apparatus. H. H. Burton. 2,419,056; Apr. 15.
- Microanalyzer, Electronic. J. Hillier. 2,418,228; Apr. 1.
- Microfilm reader and projector for records indexed on microfilm. H. W. Ralph. 2,431,662; Nov. 25.
- Microhardness testing instrument. H. Riepert and H. Broschke. 2,422,634; June 17.
- Microlimit indicating system. C. F. Coake. 2,417,292; Mar. 11.
- Micrometer height gage. A. W. Jarosz. 2,426,933; Sept. 2.
- Micrometer, Internal. A. G. Mapp. 2,428,234; Sept. 30.
- Micrometer lap and guide. B. W. Lance. 2,418,413; Apr. 1.
- Micro-organisms in meat, Inhibition or retardation of the growth of. H. F. Bauer and E. F. Glabe. 2,417,806; Mar. 25.
- Microphone. R. Vermeulen. 2,421,820; June 10.
- Microphone boom. B. F. Ryan and E. H. Smith. 2,421,437; June 3.
- Microphone, Crystal. W. P. Mason and H. J. McSkimin. 2,433,383; Dec. 30.
- Microphone, Granulated carbon. J. de Boer. 2,420,737; May 20.
- Microphone, Submarine signal. W. J. Brown. 2,425,594; Aug. 12.
- Microphone, Temperature compensated. H. W. Bryant. 2,429,988; Nov. 4.
- Microscope. J. R. Benford and L. V. Foster. 2,414,709; Jan. 21.
- Microscope. O. C. Blomgren. 2,417,044; Mar. 11.
- Microscope. H. N. Ott. 2,421,126; May 27.
- Microscope, Compact. D. J. O'Brien. 2,433,674; Dec. 30.
- Microscope condenser. E. Domingo. 2,415,732; Feb. 11.
- Microscope, Electron. C. H. Bachman. 2,422,943; June 24.
- Microscope, Electron. C. H. Bachman and S. Ramo. 2,424,788-90; July 29.
- Microscope, Electron. S. Ramo. 2,420,560; May 13.
- Microscope, Electron. S. Ramo. 2,422,041; June 10.
- Microscope, Image projecting comparison. K. Butscher. 2,423,370; July 1.
- Microscope specimen, Electron. J. Hillier. 2,417,110; Mar. 11.
- Microscope structure, Electron. C. H. Bachman. 2,420,561; May 13.
- Microscope, Variable field. O. W. Richards. 2,418,602; Apr. 8.
- Microscope with special light modifiers. H. Osterberg and H. S. Schrader. 2,427,689; Sept. 23.
- Microwave coupling device. H. Kihn. 2,431,941; Dec. 2.
- Microwave wattmeter unit. H. E. Webber. 2,424,596; July 29.
- Microwaves, Translation of. W. H. Doherty. 2,426,185; Aug. 26.
- Midsol for platform shoes. E. A. Crepeau. 2,426,671; Sept. 2.
- Midsol, Ventilated. M. Margolin. 2,432,533; Dec. 16.
- Milk cooler. J. F. Carter. 2,425,596; Aug. 12.
- Milk cooler. G. R. Duncan. 2,425,519; Aug. 12.
- Milk fat concentrate process. H. C. Horneman, R. V. Hussong, S. N. Quam, and B. W. Hammer. 2,423,834; July 15.
- Milk filter. J. F. Ryan. 2,433,531; Dec. 30.
- Milk strainer pad dispenser. R. Schneider. 2,428,530; Oct. 7.
- Milking apparatus. L. F. Bender and J. A. Schmitt. 2,429,983; Nov. 4.
- Milking machine. E. B. Thompson and F. A. Gessler. 2,427,312; Sept. 9.
- Milking machine claw. G. A. Anderson. 2,428,350; Oct. 7.
- Milking machine pulsator. H. A. McArthur and J. B. Decker. 2,419,844; Apr. 29.
- Mill: See—
- Adjustable colloid mill. Tumbling mill.
- Pellet mill. Two stage hammer mill.
- Self-classifying ball mill.
- Mill and mechanism to oppose sag in the tool bars thereof, Boring. R. M. Shaw, Jr. 2,432,943; Dec. 16.
- Mill and operating same, including discharging, Tube. F. J. Gavin. 2,416,746; Mar. 4.
- Mill combined with rotary discharge conveyer, Rotary fruit. J. Bucher-Guyer. 2,416,043; Feb. 18.
- Mill for subdividing mucilaginous material, Plural stage cutter-roll. M. Cornell. 2,414,855; Jan. 28.



- Mill with adjustable impactor, Centrifugal disk. G. E. Hulse. 2,428,670; Oct. 7.
- Mill with stationary table and radially arranged roller, Chasing. W. B. Chapman. 2,426,434; Aug. 26.
- Miller, Hand. N. M. Marsilius. 2,421,459; June 3.
- Milling cutter. R. G. Wilson. 2,426,382; Aug. 26.
- Milling machine. N. M. Marsilius. 2,422,112; June 10.
- Milling machine cutter. R. G. Owen and E. H. Howard. 2,431,581; Nov. 25.
- Milling machine, Profile. J. E. Lovely. 2,420,547; May 13.
- Milling operations upon metal workpieces, Effecting varied. E. T. Nord. 2,433,145; Dec. 23.
- Mine anchor-line cutter. R. Temple. 2,422,506; June 17.
- Mine cable cutter. R. Temple, Jr. 2,420,987; May 20.
- Mine car. H. W. Sanford. 2,422,136; June 10.
- Mineral fillers, Nonsettling. A. R. Bollaert. 2,426,140; Aug. 19.
- Mineral lubricating oil composition, Corrosive inhibited additive for. J. C. Zimmer and G. M. McNulty. 2,431,011; Nov. 18.
- Mineral oil composition. H. G. Berger and E. W. Fuller. 2,416,281; Feb. 25.
- Mineral oil composition. H. G. Berger and E. W. Fuller. 2,421,004; May 27.
- Mineral oil composition. E. W. Fuller, H. E. Redman, and H. G. Berger. 2,427,272; Sept. 9.
- Mineral oil composition. T. T. Noland. 2,419,584; Apr. 29.
- Mineral oil composition. F. P. Otto and R. E. Meyer. 2,419,586; Apr. 29.
- Mineral oil, Compounded. B. B. Farrington, J. O. Clayton, and J. T. Rutherford. 2,416,985; Mar. 4.
- Mineral oil emulsions, Treatment of. P. M. Goodloe, II, and T. T. Noland. 2,427,326; Sept. 9.
- Mineral oil rustproofing composition. J. H. Klaber. 2,430,058; Nov. 4.
- Mineral oils, Refining. N. E. Lemmon. 2,416,397; Feb. 25.
- Mineral working apparatus. G. H. Smith. 2,418,200; Apr. 1.
- Miniature electric meter. J. H. Bigelow, J. M. Harris, and M. N. Schweizer. 2,422,714; June 24.
- Mining apparatus. C. F. Osgood. 2,415,217; Feb. 4.
- Mining machine. J. B. Mavor. 2,425,108; Aug. 5.
- Mining machine. M. S. Moore. 2,422,645; June 17.
- Minnow, Artificial. S. J. Mikina. 2,423,717; July 8.
- Minute measurements, Identifying. R. P. Talbot. 2,418,436; Apr. 1.
- Mirror and guard assembly, Dental. E. L. Scott. 2,419,733; Apr. 29.
- Mirror, Antiglare rear view. H. McNamara. 2,420,259; May 6.
- Mirror, Colored. W. H. Colbert and W. L. Morgan. 2,430,452; Nov. 11.
- Mirror for motor vehicles, Universal. A. O. Sorensen. 2,413,894; Jan. 7.
- Mirror, Illuminated. F. M. Brown. 2,428,649; Oct. 7.
- Mirror, Illuminated. R. De Virgillis. 2,414,223; Jan. 14.
- Mirror, Illuminated. A. H. Lamb. 2,428,975; Oct. 14.
- Mirror, Rear view. W. H. Colbert and W. L. Morgan. 2,418,335; Apr. 1.
- Mitt, Bath. G. and Z. Solakian. 2,431,433; Nov. 25.
- Mixer: See—
- Concrete mixer. Porous disc type gas mixer.
- Food mixer. Refrigerated dough mixer.
- Hot metal mixer. Rocking mixer.
- Mud mixer. Rocking mixer.
- Mixer. K. E. McConaughay. 2,421,345; May 27.
- Mixer and cooler, Beverage. G. D. Sweler, Jr. 2,433,248; Dec. 23.
- Mixer and dispenser, Combined drink. D. C. Lanese. 2,420,959; May 20.
- Mixer for liquids, Thermostatic. R. C. Kirchhoff. 2,424,891; July 29.
- Mixing and distributing apparatus, Concrete. D. C. Porter. 2,416,771; Mar. 4.
- Mixing and filling apparatus. A. I. Nelson. 2,433,478; Dec. 30.
- Mixing and molding device. O. M. Palmer. 2,420,616; May 13.
- Mixing apparatus, Fluid. E. M. Hammer. 2,424,163; July 15.
- Mixing arrangement for torches. H. G. Hughey. 2,430,511; Nov. 11.
- Mixing device. T. B. Owens. 2,420,494; May 13.
- Mixing device, Agitating. C. F. Warren. 2,422,708; June 24.
- Mixing device, Liquid. E. J. Ries and L. H. Brune. 2,415,534; Feb. 11.
- Mixing machine. P. E. Sippel. 2,429,701; Oct. 28.
- Mixing valve. J. Fraser. 2,417,158; Mar. 11.
- Mixtures of emulsifying and wetting agents, Making. A. R. Globus. 2,424,951; July 29.
- Mixtures of esters, Preparing purified. M. A. Eitelman. 2,428,450; Oct. 7.
- Mixtures of polyoxyalkylene monohydroxy compounds and making such mixtures. F. H. Roberts and H. R. Rife. 2,425,755; Aug. 19.
- Mobile apparatus for preparation of hot-water dressing. E. W. Jokinen. 2,426,615; Sept. 2.
- Mobile equipment unit, Dentist's. J. L. Andreasen. 2,424,729; July 29.
- Mocassin and making it, Welted. J. A. Cordeau. 2,420,466; May 13.
- Modifying the dyeing properties of cellulose or cellulose derivative textile materials. W. G. Cameron and T. H. Morton. 2,418,696; Apr. 8.
- Modulating control apparatus. S. G. Isserstedt. 2,426,508; Aug. 26.
- Modulating device for stone saws, Pressure. M. A. Moeller. 2,421,349; May 27.
- Modulating system. J. C. Ferguson. 2,431,471; Nov. 25.
- Modulating the frequency of sound waves, Method of and apparatus for. C. B. Horsley. 2,424,357; July 22.
- Modulation. J. Haantjes. 2,429,683; Oct. 28.
- Modulation receiver, Frequency. M. G. Crosby. 2,422,083; June 10.
- Modulation receiver, Phase or amplitude. M. G. Crosby. 2,416,795; Mar. 4.
- Modulation system, Amplitude. G. M. Brown. 2,432,720; Dec. 16.
- Modulation system, High level. J. J. Antalek. 2,422,878; June 24.
- Modulation system, Push-pull. E. Labin and D. D. Grieg. 2,416,329; Feb. 25.
- Modulation, Timing. R. W. Clark. 2,415,868; Feb. 18.
- Modulator distortion correction. H. Romander. 2,429,649; Oct. 28.
- Modulator for sound waves. W. A. Van Allen. 2,424,375; July 22.
- Modulator, Frequency sweep. A. Murdoch, Jr. 2,433,782; Dec. 30.
- Modulator, Hum reducing. J. O. Weldon. 2,419,615; Apr. 29.
- Modulator, Phase sensitive. H. D. Middel. 2,414,318; Jan. 14.
- Modulator, Reactance tube timing. R. W. Clark. 2,428,931; Oct. 14.
- Moistener. L. T. Hand. 2,427,963; Sept. 23.
- Moistening apparatus for knitting yarns. W. Coleman. 2,420,355; May 13.
- Moistening device for duplicating machines. F. R. Ford. 2,424,534; July 22.
- Moistening device for mail treating machines, Tape. C. D. Ryan and E. P. Drake. 2,421,579; June 3.
- Moistening device for sole cutting machines. A. and A. Roy. 2,419,794; Apr. 29.
- Moisture from optical instruments, Removing. H. Urquhart. 2,430,090; Nov. 4.
- Moisture indicator. S. F. Essig. 2,431,742; Dec. 2.
- Moisture-proofing electrical devices, Method and apparatus for. H. J. Green, Jr., and F. P. Ciambone, Jr. 2,430,224; Nov. 4.
- Mold: See—
- Injection mold. Section mold.
- Meat mold. Self-locking mold.
- Metal mold. Shaping mold.
- Mould. Temperature control mold.
- Multiple tire sidewall mold. Water-cooled slab mold.
- Potato mold.
- Reinforced concrete stave mold.
- Mold. C. B. Lubbert and C. Rozanek. 2,425,832; Aug. 19.
- Mold and core and casting in same. T. Bellsnyder, Sr., and R. Ritchie. 2,419,873; Apr. 29.
- Mold and core structure. C. Wessel. 2,429,146; Oct. 14.
- Mold and molding. S. R. Davis. 2,421,928; June 10.
- Mold assembly for centrifugal casting. E. N. Greenwell. 2,419,716; Apr. 29.
- Mold-blanketing material. A. U. McGill. 2,416,836; Mar. 4.
- Mold coating. W. A. Dean. 2,426,987-8; Sept. 9.
- Mold coating composition, and protecting plastics during molding. D. F. Cole and J. F. Wynn. 2,414,093; Jan. 14.
- Mold dumping apparatus. F. B. Henry. 2,431,174; Nov. 18.
- Mold for casting large flat panels. C. H. Terry. 2,421,584; June 3.
- Mold for casting metals. C. Wessel. 2,429,145; Oct. 14.
- Mold for casting, Temperature control. R. J. Miller. 2,423,151; July 1.
- Mold for forming precision members. M. N. Fairbank. 2,431,927; Dec. 2.
- Mold for making integral reed plates and reeds. F. H. Magnus. 2,416,451; Feb. 25.
- Mold for producing shapes of plastic material. L. Mast. 2,415,961; Feb. 18.
- Mold for the making of custom-made prearranged acrylic teeth, Arch-shaped. L. Raymond. 2,428,094; Sept. 30.
- Mold for tractor tires. J. G. Kreyer. 2,415,291; Feb. 4.
- Mold for use in the manufacture of optical elements. M. N. Fairbank. 2,431,926; Dec. 2.
- Mold parts, Production of. D. E. Cutler. 2,426,000; Aug. 19.
- Mold press. K. B. Kilborn. 2,431,048; Nov. 18.
- Mold rack. H. P. Finley. 2,425,610; Aug. 12.
- Molded block of activated carbon in a porous casing of fireproofed carbon. C. W. Hart. 2,423,702; July 8.
- Molded pulp cushion pad. W. J. De Reamer. 2,414,724; Jan. 21.
- Molder for bottles and jars, Cap. A. H. Johnson. 2,428,878; Oct. 14.
- Molding. J. P. Gits. 2,413,823; Jan. 7.
- Molding apparatus. O. E. Hermans and E. Herzog. 2,414,948; Jan. 28.
- Molding apparatus. F. J. MacDonald. 2,415,504; Feb. 11.
- Molding apparatus. C. Rozanek. 2,425,831; Aug. 19.



- Molding apparatus for slide fastener sliders. F. Ulrich. 2,415,395; Feb. 4.
- Molding device, Injection. T. F. Stacy. 2,431,349; Nov. 25.
- Molding, Injection. T. F. Stacy. 2,426,651; Sept. 2.
- Molding machine, Bread. M. A. Stiebel. 2,425,356; Aug. 12.
- Molding machine, Brick or block. L. Gelbman. 2,431,034; Nov. 18.
- Molding machine, Injection. R. W. Dinzi. 2,433,654; Dec. 30.
- Molding materials. G. J. Wilson. 2,432,221; Dec. 9.
- Molding, Method of and apparatus for injection. T. F. Stacy. 2,418,856; Apr. 15.
- Molding, Window. J. C. Meador. 2,419,653; Apr. 29.
- Molds for footwear, Compression. J. T. Tebbutt. 2,414,985; Jan. 28.
- Molds, Making. G. P. Bosomworth. 2,424,919; July 29.
- Molten light metal by precipitation of impurities, Method and apparatus for purifying. R. J. McNitt. 2,424,179; July 15.
- Molten material, Method and apparatus for fiberizing. E. R. Powell. 2,428,810; Oct. 14.
- Molybdenum oxide catalyst, Preparation of an alumina. A. E. Smith and O. A. Beek. 2,422,372; June 17.
- Molybdenum-oxygen deposits, Electrodepositing and heat treating. E. W. Schweikher. 2,417,133; Mar. 11.
- Monazo and disazo dyes with N-substituted 1, 3, 5 xylydines. H. C. Olpin and J. Wright. 2,424,627; July 29.
- Monitoring system. W. O. Snelling. 2,429,966; Oct. 28.
- Monitoring system for optical sound recording. L. T. Sachtleben. 2,423,256; July 1.
- Mono- and unsymmetrical disubstituted guanidines. Production of. J. H. Faden and A. F. MacLean. 2,425,341; Aug. 12.
- Monoozo compounds containing a CF<sub>3</sub> group. J. B. Dickey and J. G. McNally. 2,432,393; Dec. 9.
- Monoozo dyes. F. Felix and H. Riat. 2,432,403; Dec. 9.
- Monochloro derivatives of unsaturated nitriles, Production of. H. A. Dutcher. 2,419,488; Apr. 22.
- Monochromator, Electron beam. L. Marton. 2,429,558; Oct. 21.
- Mono-nitration products of toluene, Manufacture of. H. R. Wright and W. J. Donaldson. 2,416,974; Mar. 4.
- Mononitro aromatic compounds, Purification of. W. P. Gage. 2,430,421; Nov. 4.
- Mononuclear aromatic and cycloalkene hydrocarbons, Hydrogenating. G. M. Whitman. 2,432,843; Dec. 16.
- Monoolefin from a diolefin, Effecting the separation of a. L. N. Leum, S. J. Macuga, and S. I. Kreps. 2,433,465; Dec. 30.
- Monoolefin hydrocarbon polymers with polyvalent metal salts, Curing substituted. A. McAlevy, D. E. Strain, and F. S. Chance. 2,416,060; Feb. 18.
- Monoolefin, Selective polymerization of. H. O. Mottern. 2,414,760; Jan. 21.
- Monoolefinic hydrocarbons with polyvalent metal compounds, Curing of polymers of. A. McAlevy, D. E. Strain, and F. S. Chance, Jr. 2,416,061; Feb. 18.
- Monorail track support. G. C. Henderson. 2,425,739; Aug. 19.
- Mop and wringer, Compressible. A. Z. Bender. 2,418,802; Apr. 8.
- Mop clamping device. O. C. Teigen. 2,425,763; Aug. 19.
- Mop construction. A. W. Hoyer. 2,413,872; Jan. 7.
- Mop head adapted to be detachably connected to a mop holder. W. Podolak. 2,431,502; Nov. 25.
- Mop holder. E. Jumonville. 2,431,564; Nov. 25.
- Mop or broom rack. C. H. Brown. 2,423,292; July 1.
- Mop wringer, Pedal operated, palm mounted, self-opening. B. Schwartz. 2,428,296; Sept. 30.
- Mortars, Preparing air-setting refractory. H. H. Greger. 2,425,151; Aug. 5.
- Mortising gauge. H. Quigley. 2,422,367; June 17.
- Motion by means of voltage as applied to gunnery trainers, Controlling. E. W. Kellogg. 2,431,257; Nov. 18.
- Motion controlling device. W. Kohlhausen. 2,423,985; July 15.
- Motion for bed presses, Reciprocating. F. R. Molitor. 2,430,644; Nov. 11.
- Motion for knitting machines and the like, Stop. A. C. Thomas. 2,421,092; May 27.
- Motion picture apparatus, Direct viewing. M. Lasky and B. S. Lee. 2,432,200; Dec. 9.
- Motion-picture color photography, Apparatus and process for. J. G. Capstaff. 2,417,060; Mar. 11.
- Motion-picture film device, Stereoscopic effect. S. Yarosh. 2,415,550; Feb. 11.
- Motion-picture machine. L. A. McNabb. 2,418,361; Apr. 1.
- Motion-picture projector stand. J. R. Rodman and L. M. Collie. 2,430,826; Nov. 11.
- Motion, Reproducing. J. D. Peterson and P. F. Bechberger. 2,419,087; Apr. 15.
- Motion reproducing system. A. P. Davis. 2,421,247; May 27.
- Motion responsive device, Electromagnetic. W. D. Macgeorge. 2,427,866; Sept. 23.
- Motion-transmitting means. J. R. Hicks. 2,426,930; Sept. 2.
- Motor: See—
- Adjustable step-by-step motor. Plural pole number induction motor.
- Adjustably mounted motor. Retarded shaded pole motor.
- Electric clutch motor. Reversible direct-current motor.
- Electric motor. Reversible electric motor.
- Electric outboard motor. Rotary motor.
- Electrically heated bellows motor. Selective constant-speed induction motor.
- Electromagnetic impulse motor. Self-starting single-phase motor.
- Electromagnetic motor. Shunt universal motor.
- Equalized single-phase traction motor. Single-phase alternating current synchronous motor.
- Fluid motor. Step-by-step electric motor.
- Fluid pressure motor. Step-by-step motor.
- Hand motor. Synchronous motor.
- High-speed motor. Two-piece jet thrust motor.
- Hysteresis motor. Wind and water motor.
- Internal-combustion motor. Wind motor.
- Jet thrust motor.
- Outboard motor.
- Periodically actuated jet motor.
- Motor. L. C. Packer. 2,419,156; Apr. 15.
- Motor and pump, Combined fluid pressure. H. Webberking. 2,433,586; Dec. 30.
- Motor braking system, Current controlled polyphase induction. E. Pell. 2,417,012; Mar. 4.
- Motor compressor assembly. E. F. Hubacker. 2,415,011; Jan. 28.
- Motor-compressor unit. C. C. Coulson. 2,420,124; May 6.
- Motor compressor unit for refrigeration apparatus, Sealed motor. F. I. Rataiczak. 2,420,442; May 13.
- Motor-compressor unit lubrication. G. Muddy. 2,423,719; July 8.
- Motor control. G. C. Ellerbeck. 2,425,178; Aug. 5.
- Motor control. F. J. Johns and H. W. Howard. 2,419,141; Apr. 15.
- Motor control, Alternating current. H. W. Graybrook. 2,431,242; Nov. 18.
- Motor control apparatus. R. F. Teeson. 2,430,257; Nov. 4.
- Motor control apparatus, Antiarcing electric. M. N. Yardeny. 2,428,403; Oct. 7.
- Motor control, Chuck electric. F. H. Bogart. 2,420,855; May 20.
- Motor control circuit. R. H. Hill and E. M. Claytor. 2,415,170; Feb. 4.
- Motor control, Dual. C. D. Davidson. 2,426,488; Aug. 26.
- Motor control, Electronic. W. H. Elliot. 2,428,702; Oct. 7.
- Motor control for series-parallel operation, Electric. R. M. Strong. 2,419,178; Apr. 15.
- Motor control, Grid glow timer. L. Pierce. 2,414,553; Jan. 21.
- Motor control means. J. H. Rouse. 2,425,007; Aug. 5.
- Motor control, Single-phase induction. H. E. Crozier. 2,429,049; Oct. 14.
- Motor control, Split phase. L. W. Buell. 2,431,025; Nov. 18.
- Motor control system. T. C. Gower. 2,425,312; Aug. 12.
- Motor control system. D. J. Sikorra. 2,418,560; Apr. 8.
- Motor control system, Antidisparsity. W. R. Schall, Jr., and L. H. Van Dermark. 2,425,442; Aug. 12.
- Motor control system, Doubly-fed repulsion. S. E. Newhouse and W. H. Eunson. 2,424,326; July 22.
- Motor control system, Electric. W. A. Ray. 2,421,084; May 27.
- Motor control system, Electrical. J. E. Reilly. 2,428,583; Oct. 7.
- Motor control system, Electrical follow-up. J. W. Dawson. 2,423,438; July 8.
- Motor control system, Electrode feed. T. H. Bloodworth. 2,427,587; Sept. 16.
- Motor control system for locomotives, Electric. D. R. Staples and R. A. Miller. 2,431,145; Nov. 18.
- Motor control system, Induction. H. J. Rathbun. 2,420,192; May 6.
- Motor control system, Synchronous. E. I. Eigenberger. 2,424,227; July 22.
- Motor control system, Synchronous. L. Freinkel. 2,428,019; Sept. 30.
- Motor control system, Variable voltage. G. E. King and W. H. Formhals. 2,420,884; May 20.
- Motor control with emergency stop. O. M. Bundy. 2,431,459; Nov. 25.
- Motor controller, Star-delta. F. F. Johnson. 2,422,906; June 24.
- Motor controlling apparatus, Electric. E. W. Kuhn. 2,426,029; Aug. 19.
- Motorcycle saddle bag. J. Buegeleisen. 2,423,003; June 24.
- Motor device. M. Morrison. 2,415,022; Jan. 28.
- Motor drive for phonograph turntables, Speed compensating. B. W. Carrington. 2,421,911; June 10.
- Motor driven massaging instrument. M. A. Amer. 2,431,979; Dec. 2.
- Motor-driven punch. C. E. Cox. 2,427,387; Sept. 16.
- Motor follow-up system, Electric. F. L. Moseley, E. J. Isbister, and H. B. Steinhauser. 2,424,569; July 29.
- Motor for power-driven saws, Pulsator-type fluid. D. P. Andrews, B. D. Heeger, and A. P. Smith. 2,420,406; May 13.



- Motor for the expansible chamber type with piston operated snap action valve, Fluid pressure. W. H. De Lancey. 2,421,318; May 27.
- Motor for vehicles, Hydraulic wheel. J. F. Joy. 2,418,123; Apr. 1.
- Motor for windshield wipers, Suction actuated. D. M. Given, Jr. 2,421,194; May 27.
- Motor-generator. L. C. Packer. 2,433,390; Dec. 30.
- Motor mechanism, Hydraulic. C. R. Sacchini. 2,415,607; Feb. 11.
- Motor mural comprising a canvas moved along a wall from one spool to another. M. Van Horne. 2,419,802; Apr. 29.
- Motor of small size, Single-phase synchronous. O. Chatelain. 2,424,020; July 15.
- Motor of the axially moving sliding vane type, Spherical fluid operated rotary. C. A. Mann. 2,418,081; Mar. 25.
- Motor or compressor with longitudinal shaft and angularly inclined pistons geared thereto, Expansible chamber. L. Sejarto. 2,419,600; Apr. 29.
- Motor or generator, Brushless type of. M. J. Gould. 2,426,199; Aug. 26.
- Motor overload protection. P. W. Robinson. 2,414,331; Jan. 14.
- Motor plugging brake. C. L. Denault. 2,424,306; July 22.
- Motor, pump, and the like, Rotary. F. A. Talbot. 2,423,271; July 1.
- Motorpump, Submersible. C. J. Blom. 2,423,436; July 8.
- Motor pump unit. C. J. Blom. 2,423,825; July 15.
- Motor pump unit. A. R. Pezzillo. 2,433,156; Dec. 23.
- Motor rail. J. R. Hall. 2,433,693; Dec. 30.
- Motor rotor positioning device, Synchronous. A. F. Welch. 2,427,584; Sept. 16.
- Motor scooter frame. F. G. Carr. 2,429,802; Oct. 28.
- Motor starting and protective apparatus. J. D. Bolesky and L. W. Buell. 2,425,668; Aug. 12.
- Motor stop for vehicles, Shock. M. Katcher. 2,428,029; Sept. 30.
- Motor system, Alternating-current. C. G. Veinott. 2,426,071; Aug. 19.
- Motor system, Selsyn controlled electric. M. A. Edwards. 2,424,809; July 29.
- Motor system, Selsyn controlled electric. M. A. Edwards. 2,425,605; Aug. 12.
- Motor throttling and shutoff valve means, Speer responsive fluid. F. A. Jimerson. 2,422,733; June 24.
- Motor transmission. A. F. Alexander. 2,430,798; Nov. 11.
- Motor vehicle. O. S. Caesar. 2,415,460; Feb. 11.
- Motor vehicle. G. R. McIntosh. 2,425,631; Aug. 12.
- Motor vehicle and control mechanism therefor, Dual engine powered. F. H. Beall. 2,419,811; Apr. 29.
- Motor vehicle control apparatus. F. H. Beall. 2,419,810; Apr. 29.
- Motor vehicle jack. D. McDonald. 2,415,018; Jan. 28.
- Motor vehicle of the endless tread type. R. D. Acton. 2,423,544; July 8.
- Motor wheel. O. E. Dever. 2,430,163; Nov. 4.
- Motor with fluid-actuated distributing valve, Reciprocating fluid-actuated. L. B. Smith. 2,428,640; Oct. 7.
- Motor with fluid actuated pilot controlled distributing valve, Expansible chamber. W. S. Landon. 2,431,570; Nov. 25.
- Motor with pilot controlled distributing valve, Reciprocating expansible. S. E. Meyers. 2,420,896; May 20.
- Motor with relay for reversing and breaking, Compound. A. L. Stanley. 2,426,378; Aug. 26.
- Motor with spring actuated swinging vanes, Fluid pressure rotary. H. J. Sharp. 2,430,251; Nov. 4.
- Motorized power unit. R. Stuebner. 2,429,373; Oct. 21.
- Motorized wheel. S. C. Moon. 2,430,528; Nov. 11.
- Motors, Assembling electric. R. L. Benson. 2,423,750; July 8.
- Motors, Ventilation of small electric. P. H. Trickey. 2,429,903; Oct. 28.
- Mould: *See*—
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|---------------------------------|-------------------------|
| Injection mold.                 | Section mould.          |
| Metal mold.                     | Self-locking mould.     |
| Mold.                           | Shaping mould.          |
| Multiple tire sidewall mold.    | Water-cooled slab mold. |
| Reinforced concrete stage mold. |                         |
- Mould for casting cylinder heads of air-cooled engines. P. Pouron. 2,433,109; Dec. 23.
- Moulding apparatus, Shoe quarter. W. F. Herlihy. 2,424,888; July 29.
- Mount, Engine. A. G. Dean. 2,422,397; June 17.
- Mount, Engine. M. Watter and G. W. Pancoe. 2,422,452; June 17.
- Mount, Engine accessory. J. M. Tyler. 2,421,529; June 3.
- Mount for aircraft landing gears, Wheel. E. Parkinson. 2,433,706; Dec. 30.
- Mount for collapsible antennas, Shock. A. A. Walsh. 2,419,611; Apr. 29.
- Mount for projection apparatus, Adjustable lens. G. M. Mast and E. R. Sharp. 2,429,164; Oct. 14.
- Mount for tractors, Implement. J. R. Oreilind and A. G. Evans. 2,430,732; Nov. 11.
- Mount, Telescope sight. L. A. Shelley. 2,425,130; Aug. 5.
- Mount, Vibration absorbing. C. S. Robinson. 2,428,293; Sept. 30.
- Mounted flat element radio tube. A. Blinneweg, Jr. 2,419,757; Apr. 29.
- Mounting: *See*—
- Adjustable mounting.
  - Brake mounting.
  - Broom handle mounting.
  - Camera mounting.
  - Caster mounting.
  - Cathode mounting.
  - Collar can collar mounting.
  - Combined roller and spool mounting.
  - Crystal detector mounting.
  - Curtain rod mounting.
  - Detachable bridge unit crystal mounting.
  - Disc mounting.
  - Earring mounting.
  - Electron gun mounting.
  - Engine mounting.
  - Fishhook mounting.
  - Flat meter mounting.
  - Fluid-damped mounting.
  - Fluid-modified mounting.
  - Galvanometer movement mounting.
  - Handset telephone mounting.
  - Hinge mounting.
  - Lamp socket mounting.
  - Lens mounting.
  - Ophthalmic mounting.
  - Optical lens mounting.
  - Piezoelectric crystal mounting.
  - Portable antenna mounting.
  - Mounting and driving unit, Spindle. C. C. Stevens. 2,416,886; Mar. 4.
  - Mounting arrangement for magnetrons, Magnet. D. Jackson. 2,431,804; Dec. 2.
  - Mounting arrangement for pressure responsive measuring instruments, Lever. A. J. Rosenberger. 2,431,200; Nov. 18.
  - Mounting attachment for cameras, Universal. G. H. Aubey. 2,423,282; July 1.
  - Mounting device for an electrical circuit element. O. M. Dunning. 2,414,143; Jan. 14.
  - Mounting device, Meter. L. L. Young. 2,426,424; Aug. 26.
  - Mounting for butane tanks, Dome. R. Ewing. 2,418,253; Apr. 1.
  - Mounting for carbon pile voltage regulators, Armature. J. Gartner. 2,419,491; Apr. 22.
  - Mounting for combustion chambers, Fuel injector. C. A. Meyer and A. H. Redding. 2,422,214; June 17.
  - Mounting for conduits, Bulkhead. A. Crot. 2,414,509; Jan. 21.
  - Mounting for cycle saddles, Resilient. H. E. Kalter. 2,414,954; Jan. 28.
  - Mounting for earth movers, Push plate. E. W. Austin. 2,426,426; Aug. 26.
  - Mounting for electron discharge devices, Electrode. J. J. Borzin and W. G. Moran. 2,415,930; Feb. 18.
  - Mounting for finger rings. C. Holl. 2,430,508; Nov. 11.
  - Mounting for fluid pumps. W. W. Sloane. 2,432,825; Dec. 16.
  - Mounting for listers, Coulter. W. H. Silver. 2,414,175; Jan. 14.
  - Mounting for microphones, Boom. P. S. Veneklasen. 2,428,746; Oct. 7.
  - Mounting for microphones, Resilient. H. W. Darr. 2,417,153; Mar. 11.
  - Mounting for pressure sealed joints. R. Fennema and F. J. Cantalupo. 2,428,963; Oct. 14.
  - Mounting for removable screens of hammer mills, grinders, and the like. W. P. Gruendler. 2,419,773; Apr. 29.
  - Mounting for roller cutters. A. Muhlbach. 2,427,226; Sept. 9.
  - Mounting for rotary cranes, Hook roller. F. B. Ray. 2,417,567; Mar. 18.
  - Mounting for sliding door frame. W. T. Hormes. 2,428,220; Sept. 30.
  - Mounting for steerable wheel spindles, Adjustable. W. W. Buese. 2,428,651; Oct. 7.
  - Mounting for substage parts of microscopes. H. N. Ott. 2,432,583; Dec. 16.
  - Mounting for tear-strip cans, Collar. J. Coyle and W. F. Punte. 2,423,685; July 8.
  - Mounting for telescope sights. E. C. Herkner. 2,427,784; Sept. 23.
  - Mounting for textile mill spindles. H. Gleitz, P. I. Thyreen, and C. E. Miller. 2,417,485; Mar. 18.
  - Mounting for trucks, Conveyor. J. G. Tullis. 2,425,656; Aug. 12.
  - Mounting in electron discharge tubes, Electrode. C. E. Murdock and R. L. Norton. 2,431,767; Dec. 2.
  - Mounting installation, Removable. H. Lombard. 2,431,698; Dec. 2.
  - Mounting means. L. V. McCarty. 2,414,236; Jan. 14.
  - Mounting means, Fastening device. J. B. O'Connor. 2,414,270; Jan. 14.
  - Mounting means for electrical devices. E. G. Goddard. 2,433,511; Dec. 30.
  - Propeller mounting.
  - Pulley mounting.
  - Pump mounting.
  - Railway car truck spring mounting.
  - Rear-vision mirror mounting.
  - Resilient mounting.
  - Resiliently hinged blade mounting.
  - Rubber mounting.
  - Sign reflector button mounting.
  - Snubber for resilient mounting.
  - Spare tire mounting.
  - Spindle mounting.
  - Spring motor mounting.
  - Spring time mounting.
  - Switch box mounting.
  - Tandem wheel mounting.
  - Tire rim mounting.
  - Turbine mounting.
  - Turbine blade mounting.
  - Vehicle axle mounting.
  - Vehicle draft tongue mounting.
  - Vehicle steering spindle mounting.
  - Vehicle wheel mounting.
  - Work spindle mounting.
  - Wheel mounting.



- Mounting means for fabric and like covering sheets. J. E. Frazer. 2,417,922; Mar. 25.
- Mounting means for projectiles. Ogive. G. W. Blackinton and J. J. Calhoun. 2,413,680; Jan. 7.
- Mounting means, Rack. S. T. Handel. 2,428,073; Sept. 30.
- Mounting means, Vehicle wheel. V. C. Cass. 2,428,109; Sept. 30.
- Mounting member, Lamp shade. J. W. Solomon. 2,420,208; May 6.
- Mounting photographs and similar devices on sheets or pages. C. M. Murray. 2,418,421; Apr. 1.
- Mounting structure for electrical units. L. G. Ketcham. 2,429,468; Oct. 21.
- Mounting with screw locking means, Spectacle. C. L. Bausch. 2,428,645; Oct. 7.
- Mountings for expulsion fuses and surge gaps, Combined. L. A. Phillips. 2,427,743; Sept. 23.
- Movable vane variable displacement pump. J. M. Roth. 2,433,484; Dec. 30.
- Movement for indicators, Mechanical. P. Kilham. 2,417,114; Mar. 11.
- Mover control and synchronization, Multiple prime. G. F. Drake. 2,431,687; Dec. 2.
- Moving apparatus, Material. W. Uebelhoer. 2,428,131; Sept. 30.
- Mower, Lawn. F. W. Wells. 2,414,077; Jan. 7.
- Mower, Lawn. E. H. Worthington. Re. 2,2845; Feb. 18.
- Mowing cutter and support. J. F. Schafer. 2,427,306; Sept. 9.
- Muck from wash oil, Removal of. D. K. Segur. 2,418,988; Apr. 15.
- Mucking machine. M. N. Boskovich. 2,426,591; Sept. 2.
- Mucking machine, Shaft. J. W. Harding. 2,421,379; June 3.
- Mud from the Bayer process, Activation of red. H. J. Thibon. 2,432,071; Dec. 2.
- Mudguard for bicycles. J. A. Larivière. 2,422,836; June 24.
- Mud hook. W. K. Edwards. 2,423,759; July 8.
- Mud mixer. R. E. Fontenot and R. H. Dooley. 2,425,524; Aug. 12.
- Muds, Testing drilling. P. H. Jones. 2,433,668; Dec. 30.
- Muffler. J. P. Marx. 2,416,452; Feb. 25.
- Muffler construction. W. F. Sauerbier. 2,428,040; Sept. 30.
- Multicomponent-gas analyzer. R. B. Barnes. 2,431,019; Nov. 18.
- Multicomponent wave generator. N. A. Pulliam. 2,428,989; Oct. 14.
- Multiconductor structures, Making insulated. J. T. Morgan. 2,425,294; Aug. 12.
- Multicylinder opposed-piston internal combustion engine. H. Lieberherr. 2,416,762; Mar. 4.
- Multichange impulse repeating system. G. T. Baker. 2,429,911; Oct. 28.
- Multiflash lamp. H. H. Magdsick. 2,422,428; June 17.
- Multifloat mechanism for controlling operation of coal washing jigs. R. M. and G. B. Norton. 2,433,320; Dec. 23.
- Multigem setting. B. Tessler. 2,419,520; Apr. 22.
- Multigrid electron tube. J. A. McCullough. 2,431,765; Dec. 2.
- Multiple-belts, Applying. V. R. Clark. 2,425,785; Aug. 19.
- Multiple blank paperboard container. M. I. Williamson. 2,416,725; Mar. 4.
- Multiple bobbin gauge. J. A. King. 2,427,913; Sept. 23.
- Multiple connector. D. Gottlieb and A. V. Jerard. 2,429,810; Oct. 28.
- Multiple contact electric switch. C. O. Browne and A. D. Blumlein. 2,431,023; Nov. 18.
- Multiple contact switch. A. J. Williams, Jr., R. E. Tarpley, and N. C. Johnson. 2,416,972; Mar. 4.
- Multiple cylinder engine throttle control. M. Mallory. 2,429,270; Oct. 21.
- Multiple garment hanger. E. Tarnay. 2,429,037; Oct. 14.
- Multiple hanger rack. J. H. Hamilton. 2,418,635; Apr. 8.
- Multiple heater thermal switch. F. J. Johns. 2,414,531; Jan. 21.
- Multiple loop control. M. D. Ayers. 2,422,651; June 24.
- Multiple opposed piston engine. W. B. Bronander. 2,419,531; Apr. 29.
- Multiple pressure pump. E. L. Bivans, P. K. Beemer, and P. H. Montgomery. 2,420,409; May 13.
- Multiple processing frame. D. Mako and R. H. George. 2,422,307; June 17.
- Multiple purpose electric switch. H. W. Batcheller. 2,418,616; Apr. 8.
- Multiple record apparatus. C. W. Bristol. 2,414,221; Jan. 14.
- Multiple recording apparatus. J. A. Pellettere. 2,423,340; July 1.
- Multiple spindle mechanism. E. H. Moak. 2,421,461; June 3.
- Multiple-stage froth flotation. L. H. Logue. 2,423,456; July 8.
- Multiple switch. H. Weiner. 2,427,483; Sept. 16.
- Multiple tire sidewall mold. G. E. Wright. 2,429,786; Oct. 28.
- Multiple unit machine tool. J. H. Mansfield. 2,429,938; Oct. 28.
- Multiplex system having channels added at a relay station. L. E. Thompson. 2,421,727; June 3.
- Multiplex system, Pulse. E. Labin and D. D. Grieg. 2,428,118; Sept. 30.
- Multiplier correction mechanism. C. M. Friden and A. B. Machado. 2,427,271; Sept. 9.
- Multiplying machine. F. R. Saxby. 2,419,502; Apr. 22.
- Multiplying mechanism. S. Brand. 2,413,859; Jan. 7.
- Multiplying unit. H. L. Clary and W. H. Petit. 2,294,7; Dec. 9.
- Multipole tripping device. L. W. and T. M. Cole. 2,421,830; June 10.
- Multiported spray device. M. P. Dougherty. 2,430,045; Nov. 4.
- Multispindle machine, Continuous operation. E. C. Bunnell. 2,425,726; Aug. 19.
- Multitunit electron tube. W. W. Eitel and J. A. McCullough. 2,424,684-5; July 29.
- Multitunit wiring receptacle. H. Hubbell and J. F. Healy. 2,424,986; Aug. 5.
- Multivibrator. A. H. Bartels. 2,417,286; Mar. 11.
- Multivibrator. R. D. Brown, Jr. 2,416,513; Feb. 25.
- Multivibrator circuit. O. D. Engstrom. 2,418,826; Apr. 15.
- Multivibrator circuit. E. R. Sherk. 2,417,522; Mar. 18.
- Multivitamin compositions. L. O. Buxton and S. T. Lipsius. 2,421,598; June 3.
- Multivitamin preparation and producing same. S. H. Fox and L. P. Opferman. 2,433,688; Dec. 30.
- Mutiwall container. R. W. Lahey. 2,432,968; Dec. 16.
- Musical and animated toy pipe. M. A. Strumor. 2,425,212; Aug. 5.
- Musical instrument. P. McAuliffe. 2,425,436; Aug. 12.
- Musical instrument. S. C. Shill. 2,419,734; Apr. 29.
- Musical instrument. H. M. Waage. 2,422,940; June 24.
- Musical instrument, Electrical. J. M. Hanert and D. Hancock. 2,432,152; Dec. 9.
- Musical instrument, Stringed. M. E. Osburn. 2,414,238; Jan. 14.
- Musical stringed instrument. R. Ruf. 2,429,138; Oct. 14.
- Mutual conductance apparatus. M. Lieblich. 2,432,911; Dec. 16.
- N (acetylthiomethyl) carbonylamides and their production. W. J. Burke. 2,418,497; Apr. 8.
- N-alkoxymethyl polyamides, and obtaining same. H. D. Foster and A. W. Larchar. 2,430,923; Nov. 18.
- N-alkoxymethyl polyamide and obtaining same, Resin modified. H. S. Rothrock. 2,430,950; Nov. 18.
- N-alkoxy-methyl polyamides, Obtaining. T. Le S. Cairns. 2,430,908; Nov. 18.
- N-alkoxy-methyl polyamides, Obtaining. W. H. Charch. 2,430,910; Nov. 18.
- N-alkylbenzamide and pyrethrum insecticides. S. I. Gertler and H. L. J. Haller. 2,417,522; Feb. 25.
- N-alkyl-di(beta-alkoxymethoxy)alkylamines and preparing. D. J. Loder. 2,429,886; Oct. 28.
- N-alkyl glycines, Manufacture of. A. T. Hallowell. 2,413,968; Jan. 7.
- N-alkylidene, n-cycloalkylidene, and n-alkylidene aliphatic diamines. R. E. Brooks. 2,416,042; Feb. 18.
- (N'-alkylpiperazino) alkanol esters. E. H. Northey and M. E. Hultquist. 2,419,366; Apr. 22.
- N<sup>1</sup>(alpha,alpha-dimethyl-, beta-phenyl-propionyl)sulfanilamides. H. Martin and H. Gysin. 2,429,835; Oct. 28.
- N<sup>1</sup>-Benzoyl sulfonamide. M. E. Hultquist and E. H. Northey. 2,423,976; July 15.
- N-beta-cyanoethylalkanesulfonamides. D. M. McQueen. 2,424,664; July 29.
- n-Butyraldimine, Preparing. M. R. Brimer, J. E. Magoffin, and H. Von Brammer. 2,420,584; May 13.
- N<sup>3</sup>-carboxyacetyl-metanilamides. M. L. Moore and T. M. Immediata. 2,423,108; July 1.
- N-cycloalkenyl carbamates, Preparation of. C. E. Schweitzer. 2,416,068; Feb. 18.
- N<sup>4</sup>-(mercapto-acyl)-(p-amino-benzene-sulfonamides) and preparing same. W. A. Lott, K. A. Losee, and A. E. O'Keefe. 2,418,947; Apr. 15.
- N-methylamides, Production of. M. W. Farlow. 2,422,400; June 17.
- N-monoarylhdroxylamines and their nitrones and printing thereon, Light-sensitive layers of. D. M. McQueen. 2,426,894; Sept. 2.
- N,N-dialkyl morpholinium alkyl-sulfates. J. B. and V. Niederl and M. E. McGreal. 2,417,992; Mar. 25.
- N,N'-dibenzylidene-ethylene-diamine as arachnicides. E. C. Ladd. 2,417,985; Mar. 25.
- N,N'-diocetadecyl-beta-amino-propionamide. K. L. Lynch. 2,426,891; Sept. 2.
- N,N'-dithiodimorpholine as a fungicide. E. C. Ladd. 2,429,097; Oct. 14.
- N,N'-methylene bis hydantoins, Preparation of. J. F. Walker. 2,417,999; Mar. 25.
- N-naphthyl acetamidomethyl naphthols. E. R. Blout and R. S. Corley. 2,431,910; Dec. 2.
- N-nitroso-N-alkyl-arylamines as insecticides. E. C. Ladd. 2,430,721; Nov. 11.
- N-pyrryl alkanol esters of benzoic acids. S. Avakian. 2,430,268; Nov. 4.
- N-substituted  $\alpha$ -oxyacetamides and insect combating compositions. L. B. Kilgore. 2,426,885; Sept. 2.
- N-substituted amides of beta-keto-carboxylic acids, Preparation of. F. W. Cashlon. 2,416,738; Mar. 4.
- N-substituted phthalimides and their synthesis. M. S. Kharasch and C. F. Fuchs. 2,432,905; Dec. 16.
- N-substituted polyamides, Granular. H. D. Foster and A. W. Larchar. 2,430,866-7; Nov. 18.



- N-substituted polyamides, Granular. A. T. Hallowell, H. D. Foster, and A. W. Larchar. 2,430,875; Nov. 18.
- N-thioamines, Preparation of. A. W. Sloan. 2,417,954; Mar. 25.
- N-(2-hydroxy-ethyl)-ethylenediamine disalt of 2,6-dinitro-4-cyclohexyl-phenol. J. N. Hansen and F. B. Smith. 2,422,544; June 17.
- N-vinyl carbazole, Preparing. H. F. Miller and R. G. Flowers. 2,426,465; Aug. 26.
- N-vinyl pyrrole compounds, Stabilized. W. Freudenberg. 2,414,407; Jan. 14.
- Nail. E. P. Anstett. 2,428,259; Sept. 30.
- Nail. E. Gisondi. 2,427,959; Sept. 23.
- Nail, Coated. W. E. Boak. 2,423,171; July 1.
- Nail driving machine. T. W. Hamilton and E. P. Anstett. 2,418,118; Apr. 1.
- Nail straightener. E. S. Bush. 2,426,340; Aug. 26.
- Nail straightening machine. G. D. Hulburt. 2,416,832; Mar. 4.
- Nailing ground, Self-clinching. M. R. Price. 2,419,420; Apr. 22.
- Nailing machine. E. P. Anstett. 2,423,821; July 15.
- Nailing machine. E. P. Anstett. 2,430,322; Nov. 4.
- Nailing member, Structural. C. E. Wallis and J. J. Shanley. 2,421,446; June 3.
- Naphthenes and paraffins in a hydrocarbon mixture, Isomerizing. S. H. McAllister and C. C. Crawford. 2,417,699; Mar. 18.
- Naphthenes to paraffins, Conversion of. A. P. Lien and B. L. Evering. 2,427,865; Sept. 23.
- Naphthenic acids, Recovery of. L. M. Henderson and G. W. Ayers. 2,420,244; May 6.
- Naphtholsulfonamidobenzaldehydes and acetals thereof. D. W. Woodward. 2,423,572; July 8.
- Naphthols, Sulfonyl. E. R. Blout and R. S. Corley. 2,431,912; Dec. 2.
- Naphthoquinones, and producing the same, Substituted. L. F. Fieser. 2,417,919; Mar. 25.
- Naphthene peroxides. A. Farkas and A. F. Stribley. 2,430,865; Nov. 18.
- Naringin, Recovery of. W. E. Baier. 2,421,063; May 27.
- Naringin, Recovery of. R. H. Higby. 2,421,062; May 27.
- Narrow fabric multiple web loom. W. Holt. 2,416,098; Feb. 18.
- Nasal device. J. B. Biederman. 2,426,161; Aug. 26.
- Nasal device. W. L. Goldstein. 2,427,721; Sept. 23.
- Navigation aeronautical instrument. C. E. Evans. 2,414,291; Jan. 14.
- Navigation device. R. T. Monrad. 2,420,673; May 20.
- Navigation instrument. J. L. Boriff. 2,420,348; May 13.
- Navigation instrument. A. C. Wenzel. 2,432,958; Dec. 16.
- Navigation instrument, Celestial. W. S. Little. 2,415,433; Feb. 11.
- Navigation system. R. B. Roe and J. B. Gray. 2,419,970; May 6.
- Navigation system and method, Radio. H. G. Busignies. 2,433,341; Dec. 30.
- Navigation instrument, Projection. R. N. Meyer. 2,423,513; July 8.
- Neck and headwear. P. B. Kovitz. 2,431,568; Nov. 25.
- Necklace. E. L. Weed. 2,416,034; Feb. 18.
- Necktie. J. E. Johnson. 2,422,419; June 17.
- Necktie. F. P. Muhlhauer. 2,416,839; Mar. 4.
- Necktie. M. M. and V. M. Newman. 2,420,054; May 6.
- Necktie. C. W. Pennock. 2,424,580; July 29.
- Necktie. A. F. Taborski. 2,421,471; June 3.
- Necktie. A. F. Taborski. 2,422,992; June 24.
- Necktie. F. Wagner. 2,423,133; July 1.
- Necktie construction, Balanced. M. Kleinmann. 2,432,994; Dec. 23.
- Necktie knot holder. S. B. Bankson. 2,422,463; June 17.
- Necktie, Preformed. A. F. Taborski. 2,420,387; May 13.
- Necktie rack. H. M. and L. Nudelman. 2,422,922; June 24.
- Needle. R. Orthwine. 2,416,117; Feb. 18.
- Needle. L. F. Thompson. 2,422,269; June 17.
- Needle and jack, Knitting machine. A. Currier. 2,431,635; Nov. 25.
- Needle assembly, Relooping. W. O. Runcie. 2,415,111; Feb. 4.
- Needle, Bait-mounting. A. J. Odgard. 2,423,899; July 15.
- Needle bearing. J. J. Rozner. 2,418,196; Apr. 1.
- Needle flame dual control burner. J. H. Flynn and W. B. Ensign. 2,428,274; Sept. 30.
- Needle for filling receptacles. R. E. Bruckner. 2,414,138; Jan. 14.
- Needle holder. L. J. McCormack. 2,415,957; Feb. 18.
- Needle, Infusion and biopsy. H. Turkel. 2,426,535; Aug. 26.
- Needle, Knitting machine. R. C. Amidon. 2,420,210; Oct. 21.
- Needle, Lacing. A. J. J. van Akkeren. 2,418,377; Apr. 1.
- Needle, Loom selvage. H. Hoerber. 2,420,952; May 20.
- Needle motion. A. R. Clairmont. 2,429,394; Oct. 21.
- Needle-protector for knitting machines, Electric. E. Vossen. 2,432,954; Dec. 16.
- Needle raising device for sewing machines. S. E. Bengtsson. 2,433,257; Dec. 23.
- Needle threader. F. Vogel. 2,419,861; Apr. 29.
- Needle threader and loop lifter for use with surgical stitching instruments. J. D. Karle. 2,416,260; Feb. 18.
- Negative carrier. G. A. Drucker. 2,427,554; Sept. 16.
- Negatives, Registering. L. Brunet. 2,418,754; Apr. 8.
- Neohexane involving catalytic isomerization, Production of. C. C. Crawford, W. E. Ross, and S. H. McAllister. 2,418,691; Jan. 7.
- Neoprene latex articles, Deposited. P. D. Brass. 2,423,871; July 15.
- Nephoscope. W. K. Coburn. 2,420,227; May 6.
- Nesting chair. R. H. James. 2,419,833; Apr. 29.
- Nesting pipe. F. C. Lathrop. 2,423,986; July 15.
- Net. L. P. Frieder and W. S. Finken. 2,423,308; July 1.
- Net, Fish landing. M. J. Meek. 2,420,087; May 6.
- Net, Life. G. Bauerlein, Sr. 2,415,723; Feb. 11.
- Net, Life. O. D. Geer. 2,430,714; Nov. 11.
- Nether garment, Combination. R. Lewis. 2,424,698; July 29.
- Network, Asymmetrically conducting. A. C. Prichard and I. O. Myers. 2,418,480; Apr. 8.
- Network, Frequency modulation. M. Ziegler. 2,429,504; Oct. 21.
- Network, Frequency responsive. R. S. Yeandle. 2,422,513; June 17.
- Network, Resistance. J. R. Moore. 2,423,463; July 8.
- Neuro-vaso detector. M. L. Stanphill. 2,429,968; Oct. 28.
- Neutral trisubstituted phosphates, Making. R. L. Jenkins. 2,426,691; Sept. 2.
- Newspaper dispenser. J. Sabaitis. 2,423,621; July 8.
- Newspapers, Facilitating the wrapping and tying of bundles of. C. O. Gneus. 2,417,643; Mar. 18.
- Nickel catalyst and preparing it. R. I. Longley, Jr. 2,433,614; Dec. 30.
- Nickel, Electroplating. R. O. Hull and R. A. Hoffman. 2,417,203; Mar. 11.
- Nickel, Electroplating. E. W. Schweikher. 2,426,416; Aug. 26.
- Nickel from cobaltic hydroxide precipitates containing the same, Removal of. A. E. Wallis and De W. H. West. 2,415,665; Feb. 11.
- Nicotinamide, Manufacture of. P. W. Garbo. 2,427,400; Sept. 16.
- Nicotine acid derivatives, Treatment of. P. W. Garbo. 2,415,632; Feb. 11.
- Nicotine as an insecticide, Tobacco containing 10%. R. B. Arnold. 2,431,672; Dec. 2.
- Night latch. C. H. Nehls. 2,418,044; Mar. 25.
- Night light. H. Moretti. 2,421,958; June 10.
- 9-amino-alkyl-amino-substituted acridine derivatives. H. A. Shonle and J. W. Corse. 2,424,061; July 15.
- 9,11-linolo-diricinolein and making same, Hydroxyacetylated and oxidized dimer of. M. De Groot. 2,426,490; Aug. 26.
- 9,11-linolo-diricinolein and making same, Oxidizing dimer of. M. De Groot. 2,426,489; Aug. 26.
- Nippers of the pul operated type, Pruning. T. L. Page. 2,423,723; July 8.
- Nipple and bottle, Nursing. W. M. Patterson. 2,424,629; July 29.
- Nipple, Milker. C. A. Thomas. 2,425,901; Aug. 19.
- Nitration. A. O. Franz and O. C. Keplinger. 2,415,423; Feb. 11.
- Nitric acid oxidation of sulphated fatty materials. F. J. Sprules and R. Griffith. 2,426,954; Sept. 2.
- Nitric oxide, Producing. F. G. Cottrell. 2,422,081; June 10.
- Nitrile copolymers. J. M. D'Ianni. 2,429,018; Oct. 14.
- Nitrile manufacture. W. D. Campbell. 2,415,414; Feb. 11.
- Nitriles and amines, Production of. J. W. Teter. 2,417,893; Mar. 25.
- Nitriles by azeotropic distillation with chloroform, Dehydration of. J. W. Teter and W. J. Merwin. 2,433,306; Dec. 23.
- Nitriles from propylene and ammonia, Production of. J. W. Teter. 2,418,562; Apr. 8.
- Nitriles, Mercapto. M. W. Harman. 2,413,917; Jan. 7.
- Nitriles of unsaturated acids, Production of. W. A. Schulze and J. E. Mahan. 2,422,859; June 24.
- Nitriles, Preparing. R. H. Potts. 2,414,393; Jan. 14.
- Nitriles, Production of. A. O. Rogers. 2,415,261; Feb. 4.
- Nitriles, Production of chlorinated aliphatic. J. J. Gray and F. Burgess. 2,426,091; Aug. 19.
- Nitriles, Production of organic. C. R. Harris. 2,427,601; Sept. 16.
- Nitro-alcohol esters of mono-allyl maleate. H. A. Bruson and G. B. Butler. 2,425,144; Aug. 5.
- Nitro amines, Preparing. M. Senkus. 2,421,165; May 27.
- Nitro compounds, Preparing unsaturated. M. H. Gold. 2,414,594-5; Jan. 21.
- Nitro derivative of tertiary butyl hemimellitene and preparing the same. M. S. Scott. Re. 22,944; Dec. 2.
- Nitro derivatives of cyanoacetic esters and preparing them, Aliphatic. C. T. Bahner. 2,426,158; Aug. 26.
- Nitrofurans compounds, Series of. W. B. Stillman and A. B. Scott. 2,416,234; Feb. 18.
- Nitrofurans compounds, Series of. W. B. Stillman and A. B. Scott. 2,416,236; Feb. 18.
- Nitrofurans of the imino series, Therapeutically active substituted. W. B. Stillman and A. B. Scott. 2,416,233; Feb. 18.
- Nitrogen and oxygen, Recovery of. F. Koehler. 2,422,626; June 17.
- Nitrogen compound, Oxidation of heterocyclic. J. Ogilvie and A. J. Sweet. 2,415,147; Feb. 4.
- Nitrogen, Method of and apparatus for manufacturing. A. W. Laird and G. J. Maxson. 2,417,558; Mar. 18.
- Nitrogen-substituted polyamides and obtaining same. T. Le S. Cairns. 2,430,907; Nov. 18.



- Nitrogen trichloride, Preparation of. W. S. Hutchinson. 2,428,331; Sept. 30.
- Nitrogenated cephalin, Making. E. Trueger and B. S. Sprague. 2,422,321; June 17.
- Nitrogenous fibers with pre-metalized dyes and aldehydes, Dyeing. G. L. Royer and C. A. Amick. 2,422,586; June 17.
- Nitroglycerine explosives. M. Bonotto. 2,413,946; Jan. 7.
- Nitronaphthenes, Reduction of. T. F. Doumani and C. S. Coe. 2,423,180; July 1.
- Nitronitriles. G. D. Buckley and R. L. Heath. 2,428,614; Oct. 7.
- Nitroolefine derivatives of malonic esters and preparing same. C. T. Bahner. 2,431,451; Nov. 25.
- Nitrous oxide, Production of. R. A. Vingee. 2,425,582; Aug. 12.
- Noise eliminator for telephone transmitters. H. J. Hart. 2,425,061; Aug. 5.
- Noise generator. D. D. Grieg. 2,416,307; Feb. 25.
- Noise limiter and automatic volume control for television receivers. M. Cawein. 2,424,349; July 22.
- Noise reducer for amplitude modulation reception. M. G. Nicholson, Jr. 2,422,976; June 24.
- Noise reducing circuit for audio frequency translating circuits, Background. H. Tunick. 2,425,968; Aug. 19.
- Noise reducing in pulse reception. A. C. Prichard. 2,427,691; Sept. 23.
- Noise reduction device in radio receivers. I. W. Conrad. 2,424,925; July 29.
- Nonconductive fastener. B. G. Forman. 2,432,986; Dec. 23.
- Nonconductive materials, Silvering. H. Narcus. 2,421,079; May 27.
- Nongelatin emulsions and improved nongelatin emulsion fixing baths, Procedure for fixing. J. I. Crabtree and G. T. Baton. 2,425,363; Aug. 12.
- Nonlocking brake valve. W. F. Benning. 2,418,288; Apr. 1.
- Nonmetallic bodies, Metallizing. L. Pessel. 2,430,581; Nov. 11.
- Nonnumerical rotary homing type switch. R. Taylor and G. T. Baker. 2,424,519; July 22.
- Nonrefillable container. E. A. Planas. 2,428,291; Sept. 30.
- Nonrefillable container. S. Freedman and A. Bradin. 2,425,148; Aug. 5.
- Non-skid device. E. A. Dennison. 2,420,361; May 13.
- Nonurge means. D. G. Griswold. 2,421,325; May 27.
- Nopinene to myrcene, Converting. L. A. Goldblatt and S. Palkin. 2,420,131; May 6.
- Nose filter. A. Korman. 2,433,565; Dec. 30.
- Nose for hand trucks, Adjustable. H. B. Mueller. 2,427,803; Sept. 23.
- Nose wheel. C. H. Strandberg. 2,421,914; June 10.
- Notching press. E. Hallander. 2,433,117; Dec. 23.
- Notebook. H. F. Dyck. 2,421,487; June 3.
- Nozzle. J. Barz. 2,428,748; Oct. 7.
- Nozzle. A. S. Pitre, F. G. Cowen, and J. N. Pouget. 2,419,228; Apr. 22.
- Nozzle adapter. E. J. Housekeeper. 2,423,239; July 1.
- Nozzle, Agitator. C. S. Brown. 2,425,918; Aug. 19.
- Nozzle, Air. C. S. J. Berg. 2,419,386; Apr. 22.
- Nozzle and control means, Burner. C. V. Moore. 2,414,544; Jan. 21.
- Nozzle, Blowpipe. J. H. Bucknam and I. P. Thompson. 2,425,709-10; Aug. 19.
- Nozzle, Blowpipe. E. E. Westerman. 2,433,539; Dec. 30.
- Nozzle construction. J. R. Hagemann and J. A. Johnson. 2,417,486; Mar. 18.
- Nozzle, Faucet spray. H. W. Budan. 2,416,737; Mar. 4.
- Nozzle, Fireman's. C. H. Lindsay. 2,417,655; Mar. 18.
- Nozzle, Foam. G. F. Hurst. 2,423,650; July 8.
- Nozzle for fire extinguishing and other purposes, Spray. P. J. Schultz. 2,416,226; Feb. 18.
- Nozzle for sand and shot blasting. H. L. Griswold. 2,428,276; Sept. 30.
- Nozzle for tempering glass ware, Gaseous fluid-liquid spray. T. D. Green. 2,418,766; Apr. 8.
- Nozzle for use in pan greasing machines, Rotary. H. A. Roselund. 2,415,194; Feb. 4.
- Nozzle, Fuel injection. J. F. Hoffer. 2,421,329; May 27.
- Nozzle or faucet, Dispensing. R. M. Wilson. 2,432,641; Dec. 16.
- Nozzle, Pneumatic. C. Field. 2,425,237; Aug. 5.
- Nozzle, Spray. H. G. Davis. 2,414,723; Jan. 21.
- Nozzle, Spray. C. R. Keep. 2,415,794; Feb. 11.
- Nozzle, Spray. C. R. Keep. 2,429,267; Oct. 21.
- Nozzle structure for driers, Sectional. E. R. Zademach and W. W. Clarke. 2,413,937; Jan. 7.
- Nozzle, Suction. H. Stock. 2,419,740; Apr. 29.
- Nozzle, Suction cleaning. C. H. Taylor. 2,421,661; June 3.
- Nozzle, Welding electrode. J. A. Kratz and H. G. Thoma. 2,428,849; Oct. 14.
- Nozzle with cover actuated valve, Duplex suction. R. C. Lampe. 2,432,670; Dec. 16.
- Nozzle with float controlled valve, Trip. W. E. Steen. 2,418,280; Apr. 1.
- Nozzles, Making recoil preventing. C. K. Huthsing. 2,421,887; June 10.
- Nuclear substituted dimethyl styrenes from asymmetric dixyl ethanes, Producing. M. G. Sturrock and T. Lawe. 2,420,689; May 20.
- Nucleotide compounds of components of vitamin B complex. S. L. Ruskin. 2,417,841; Mar. 25.
- Nucleus for wrinkling oils, Polymerization. G. M. Williams. 2,428,901; Oct. 14.
- Nucleus for wrinkling oils, Polymerization. G. M. Williams. 2,431,357; Nov. 25.
- Numbering machine. C. A. Johansson. 2,428,847; Oct. 14.
- Nurse's cap. J. S. La Belle. 2,415,250; Feb. 4.
- Nursing bottle holder. E. R. Moore. 2,415,186; Feb. 4.
- Nut. J. P. Burke. 2,430,555; Nov. 11.
- Nut and bolt, Brazing. R. J. Whelan and R. A. Reich. 2,426,653; Sept. 2.
- Nut and small object collector. J. D. Wyland. 2,427,486; Sept. 16.
- Nut blanching machine including paired rubbing belts. E. W. Bridge. 2,433,730; Dec. 30.
- Nut blanks, Making. R. L. Wilcox. 2,432,844; Dec. 16.
- Nut cracker. T. W. Posey. 2,426,120; Aug. 19.
- Nut, Cushioned. E. M. Morehouse. 2,417,263; Mar. 11.
- Nut driver. E. E. Eriksson. 2,420,741; May 20.
- Nut, Gland. D. A. Seaver. 2,417,799; Mar. 18.
- Nut, Lock. G. V. Glumer. 2,432,473; Dec. 9.
- Nut lock. G. R. Micuta. 2,427,684; Sept. 23.
- Nut lock. C. L. Morris. 2,419,849; Apr. 29.
- Nut, Lock. E. R. Robertson. 2,432,805; Dec. 16.
- Nut, Lock. R. F. Warren, Jr. 2,421,105; May 27.
- Nut or bolt lock. J. W. Wohlhieter. 2,423,913; July 15.
- Nut removing tool. E. M. Hoff. 2,417,757; Mar. 18.
- Nut, Self-locking. H. Noyes. 2,430,884; Nov. 18.
- Nut, Sheet metal. R. E. Eggert. 2,417,243; Mar. 11.
- Nut splitting device. R. S. Hall. 2,414,149; Jan. 14.
- Nut, Stiff. R. D. King and N. F. Wood. 2,422,833; June 24.
- Nut structure. R. W. Luce. 2,421,278; May 27.
- Nut, Thread lock. A. J. Krause. 2,424,242; July 22.
- Nut, Threadless. R. E. Eggert. 2,427,769; Sept. 23.
- Nut to plate, Attaching. E. Kann. 2,415,695; Feb. 11.
- Nuts, Making self-locking. W. M. Perry. 2,421,905; June 10.
- Nuts, Manufacturing. E. A. Green. 2,418,070; Mar. 25.
- Oarlock. J. A. Aldrich. 2,420,161; May 6.
- Oarlock. C. Thorsen. 2,413,895; Jan. 7.
- Oarlock, Bow facing. E. R. Kosey. 2,422,835; June 24.
- Oarlock, Featherable pin type. W. H. Edmondson, Jr. 2,424,605; July 29.
- Oar propelling means. E. L. Hebert. 2,427,278; Sept. 9.
- Oar reversing device. R. Krueger. 2,415,432; Feb. 11.
- Oat pudding compositions. S. Musher. 2,418,847; Apr. 15.
- Object locating system. G. B. Engelhardt. 2,421,747; June 10.
- Object locating system. L. Espenschied. 2,426,189; Aug. 26.
- Objective of the telephoto type, Optical. A. Cox. 2,421,927; June 10.
- Objects, Recording moving. R. E. Crowley. 2,430,975; Nov. 18.
- Obstacle detection by radio waves. W. D. Hershberger. 2,423,023; June 24.
- Obstacles by electromagnetic impulses, Detection of. M. M. Lévy. 2,421,340; May 27.
- Obstacles by electromagnetic waves, Detection of. C. W. Earp. 2,421,020; May 27.
- Obturator for guns. W. Summerbell, L. J. Rhein, and O. D. Hoopes. 2,428,398; Oct. 7.
- Occlusions of gases like hydrogen from the surface layers of workpieces, Driving out. R. Beck. 2,421,863; June 10.
- Octane number of motor fuel, Increasing. G. W. Ayers. 2,418,391; Apr. 1.
- Octenes, Production of. V. Haensel and V. N. Ipatieff. 2,421,936; June 10.
- Odograph. C. D. Lake and G. F. Daly. 2,421,628; June 3.
- Oil and for producing soap, Refining. B. Clayton. 2,423,638; July 8.
- Oil and grease interceptor. E. W. N. Boosey. 2,433,087; Dec. 23.
- Oil and juice extraction by fluid pressure, Peel. W. A. Pipkin. 2,420,680; May 20.
- Oil and lubricating, Lubricating. E. C. Knowles, F. C. McCoy, and J. A. Patterson. 2,417,305; Mar. 11.
- Oil and producing same, Drying rosin. E. E. Fleck. 2,429,264; Oct. 21.
- Oil and producing same, Soluble. P. L. Carter and W. J. Coppock. 2,433,646; Dec. 30.
- Oil base, Cutting. L. D. Myers and V. J. Muckerheide. 2,421,159-9; May 27.
- Oil burner. G. I. Carter. 2,433,317; Dec. 23.
- Oil burner. H. S. Cress. 2,419,336; Apr. 22.
- Oil burner. F. U. Dumas. 2,416,383; Feb. 25.
- Oil burner. D. P. Litzenberg. 2,416,932; Mar. 4.
- Oil burner. H. M. Reeves and L. F. Vixler. 2,422,209; June 17.
- Oil circulating and feeding system. J. J. Serrell and L. D. Jones. 2,432,130; Dec. 9.
- Oil cleaner. A. F. Underwood. 2,426,327; Aug. 26.
- Oil coating compositions, Drying. T. C. Whitner. 2,420,390; May 13.
- Oil composition, Cutting. L. H. Sudholz and C. D. Flemming. 2,429,198; Oct. 14.
- Oil composition, Heavy-duty motor. N. D. Williams and W. J. Backoff. 2,420,274; May 6.



- Oil composition, Lubricating. E. Lieber and M. E. Thorner. 2,425,747; Aug. 19.
- Oil composition, Lubricating. J. G. McNab, C. J. Wilson, and C. Winning. 2,419,360; Apr. 22.
- Oil composition, Lubricating. D. W. Young and J. D. Calfee. 2,422,278; June 17.
- Oil composition, Rust inhibiting. S. C. Johansson. 2,432,901; Dec. 16.
- Oil compositions containing wax modifying agents, Lubricating. L. A. Mikeska. 2,429,479; Oct. 21.
- Oil compositions, Essential. W. A. Taylor. 2,422,145; June 10.
- Oil compound. M. P. Kleinholz. 2,427,501; Sept. 16.
- Oil, Compounded lubricating. H. Diamond. 2,427,766; Sept. 23.
- Oil, Compounded lubricating. J. G. McNab and C. L. Fleming, Jr. 2,420,893; May 20.
- Oil, Compounded lubricating. J. G. McNab and D. T. Rogers. 2,418,894; Apr. 15.
- Oil, Compounded lubricating. L. A. Mikeska. 2,422,276; June 17.
- Oil, Compounded lubricating. C. Winning and D. T. Rogers. 2,422,275; June 17.
- Oil cooler. J. R. Holmes, J. A. Winter, and I. M. Schultz. 2,419,264; Apr. 22.
- Oil cooler. J. E. Sullivan. 2,432,258; Dec. 9.
- Oil cooler control. J. M. Kemper. 2,416,261; Feb. 18.
- Oil cracking unit. N. O. Harmon. 2,421,880; June 10.
- Oil detection in drilling muds. D. H. Larsen. 2,431,487; Nov. 25.
- Oil determination. J. J. Heigl. 2,423,774; July 8.
- Oil dispenser. LeR. Du Bois. 2,429,309; Oct. 21.
- Oil dispersed in well drilling fluids, Detecting. G. L. Ratcliffe. 2,422,852; June 24.
- Oil, Electrical. E. S. Flynn. 2,425,791; Aug. 19.
- Oil emulsions, Vulcanized fatty. P. Stamberger. 2,422,049; June 10.
- Oil extraction, Citrus peel. W. A. Pipkin. 2,420,678; May 20.
- Oil extractor and separator mechanism. H. Truax. 2,416,421; Feb. 25.
- Oil filter. D. T. Eves and R. Bowers. 2,430,713; Nov. 11.
- Oil filter. J. R. Hunt. 2,415,246; Feb. 4.
- Oil filter. C. S. McCann. 2,427,733; Sept. 23.
- Oil filtration. C. C. S. Le Clair. 2,423,329; July 1.
- Oil, Foam inhibited. V. N. Borsoff and J. O. Clayton. 2,430,857-8; Nov. 18.
- Oil from shales, Recovery of. H. D. Brown. 2,431,677; Dec. 2.
- Oil from whole citrus fruit, Method of and apparatus for extracting. W. A. Pipkin. 2,420,679; May 20.
- Oil gels, Dispersing. H. G. Berger, G. S. Crandall, and J. F. Socolofsky. 2,418,920; Apr. 15.
- Oil, Heating. A. Q. Cato, G. Wash, and A. J. Shmidl. 2,417,236; Mar. 11.
- Oil, High-boiling aromatic. F. J. Soday. 2,415,541; Feb. 11.
- Oil, Inhibited. A. W. Lewis and J. E. Schott. 2,417,876; Mar. 25.
- Oil, Lubricating. E. A. Evans and J. S. Elliott. 2,414,257; Jan. 14.
- Oil, Lubricating. B. H. Lincoln and G. D. Byrkit. 2,418,358; Apr. 1.
- Oil, Lubricating. B. H. Lincoln and G. D. Byrkit. 2,421,631; June 3.
- Oil, Lubricating, rust-dissolving and penetrating. H. J. Vuyk. 2,429,735; Oct. 28.
- Oil, Manufacture of lubricating. F. C. Toettcher. 2,433,797; Dec. 30.
- Oil or other liquid filter or cleaner. C. C. S. Le Clair. 2,418,777; Apr. 8.
- Oil-polyvinyl acetal compositions, Drying. B. C. Pratt. 2,422,259; June 17.
- Oil produced in low temperature carbonization of coal, Aromatization of. C. Weizmann. 2,430,416; Nov. 4.
- Oil pump. A. Feroy. 2,417,474; Mar. 18.
- Oil purifying substances and making. H. F. Dague. 2,425,085; Aug. 5.
- Oil reclaimer, Absorption. C. O. Meyers. 2,417,007; Mar. 4.
- Oil reclaimer, Lubricating. B. Morris. 2,428,939; Oct. 14.
- Oil recovery, Underground. R. M. Steffen. 2,421,528; June 3.
- Oil refinery waste, Treating. P. J. McGuire, F. W. Brittain, and E. D. Rollins. 2,430,182; Nov. 4.
- Oil remover or wiper. S. Friedman. 2,425,526; Aug. 12.
- Oil, Rust preventing turbine. R. K. Johnston and J. I. Wasson. 2,415,353; Feb. 4.
- Oil sealing ring. T. H. Winkeljohn. 2,417,390; Mar. 11.
- Oil separation method for vitaminiferous protein material and the like. H. E. Crowther. 2,413,692; Jan. 7.
- Oil separator. A. Zeitlin and L. Robbins. 2,425,410; Aug. 12.
- Oil shale in fluidized condition with simultaneous combustion of spent shale, Distillation of. F. T. Barr. 2,432,135; Dec. 9.
- Oil smoke generator. H. E. Norton and J. R. Bond. 2,423,847; July 15.
- Oil soluble colors of the anthraquinone series. M. Scalera and W. B. Hardy. 2,426,577; Aug. 26.
- Oil, Soluble cutting. J. C. Zimmer. 2,431,010; Nov. 18.
- Oil temperature regulator. A. C. Hoffman. 2,433,454; Dec. 30.
- Oil treatment, Tall. G. C. Harris. 2,419,211; Apr. 22.
- Oil well packer. C. R. Claus. 2,420,226; May 6.
- Oil well pump. T. G. Lewis. 2,431,492; Nov. 25.
- Oil well pump. R. R. Renouf and F. E. Mason. 2,420,151; May 6.
- Oil well screen. D. B. Collins. 2,417,152; Mar. 11.
- Oil well streams, Method of and apparatus for treating. J. P. Walker and C. O. Glasgow. 2,420,115; May 6.
- Oil well tool. J. Grant. 2,427,052; Sept. 9.
- Oil wells, Cleaning. F. E. Dana. 2,415,729; Feb. 11.
- Oiler, Air-line. M. O'Farrell and A. J. St. Louis. 2,430,361; Nov. 4.
- Oiler, Road. L. C. Brosemer. 2,428,865; Oct. 14.
- Oils and the product resulting therefrom, Bodying drying. H. G. Berger, G. S. Crandall, and J. F. Socolofsky. 2,418,921; Apr. 15.
- Oils, Catalytic conversion of. J. M. Brackenbury. 2,416,608; Feb. 25.
- Oils, Catalytic conversion of heavy. J. B. Gray. 2,414,736; Jan. 21.
- Oils, Coking. R. Lee, H. D. Noll, and V. A. Kalichevsky. 2,422,790; June 24.
- Oils, Diesel fuel. H. G. Smith, T. L. Cantrell, and M. L. Hill. 2,433,716; Dec. 30.
- Oils, Diesel fuel. H. G. Smith, T. L. Cantrell, and J. G. Peters. 2,433,243; Dec. 23.
- Oils, Electrical insulating. F. J. Soday. 2,423,413; July 1.
- Oils, Improvement in winter vegetable. H. D. Royce. 2,418,668; Apr. 8.
- Oils, Lubricating. C. M. Blair, Jr. 2,422,881; June 24.
- Oils, Modifying drying. F. G. Nessler and C. E. Penoyer. 2,425,200; Aug. 5.
- Oils, Removing impurities from. H. C. Eddy. 2,417,637; Mar. 18.
- Oils, Stabilizing glyceride. A. Scharf. 2,431,347; Nov. 25.
- Oils, Stabilizing marine. L. O. Buxton and C. E. Dryden. 2,426,485; Aug. 26.
- Olefin-free hydrocarbon fraction, Recovering a substantially. J. T. Horeczy. 2,415,171; Feb. 4.
- Olefin, Isomerization of. M. J. Mulligan and P. L. Cramer. 2,423,612; July 8.
- Olefin other than ethylene to isobutane, Conversion of a normally gaseous. W. J. Mattox. 2,422,692; June 24.
- Olefin oxides. S. B. Becker. 2,430,443; Nov. 11.
- Olefin oxides, Manufacture of. H. D. Finch and I. Bergsteinsson. 2,424,084; July 15.
- Olefin oxides, Production of. I. Bergsteinsson and H. D. Finch. 2,424,086; July 15.
- Olefin and diolefin copolymers, Curing. R. R. Sterrett and F. L. Holbrook. 2,427,514; Sept. 16.
- Olefin having the styrene structure as a nucleus, Purifying an aryl. C. W. Jordan. 2,423,389; July 1.
- Olefines, Recovery of polymerized. J. P. Hamilton. 2,433,045; Dec. 23.
- Olefinic hydrocarbons, Polymerization of. C. B. Linb. 2,414,380; Jan. 14.
- Olefinic nitriles by dehydration with acetic anhydride, Preparation of. H. J. Hagemeyer, Jr. 2,417,749; Mar. 18.
- Olefinic polymerization pretreatment. J. D. Calfee and R. M. Thomas. 2,431,461; Nov. 25.
- Olefinic polymers, Emulsification of. R. L. Holmes. 2,414,740; Jan. 21.
- Olefins, Absorption of. R. L. Heinrich. 2,414,737; Jan. 21.
- Olefins by reacting an olefin with an alkyl halide in the presence of calcium oxide, Synthesis. V. A. Miller and W. G. Lovell. 2,417,119; Mar. 11.
- Olefins, Continuous process for polymerizing. V. Voorhees. 2,418,797; Apr. 8.
- Olefins, Cracking of. F. O. Rice. 2,429,566; Oct. 21.
- Olefins from a hydrocarbon stream, Separation of. J. H. Cone. 2,433,030; Dec. 23.
- Olefins, Isomerization of. A. H. Friedman. 2,428,455; Oct. 7.
- Olefins, Isomerizing tertiary. L. K. Beach. 2,425,858; Aug. 19.
- Olefins, Polymerization of. O. A. Brown. 2,424,143; July 15.
- Olefins, Production of. K. K. Kearby. 2,426,829; Sept. 2.
- Olefins using boric oxide on alumina as catalyst, Isomerizing. J. Burgin. 2,422,884; June 24.
- Olefins with hydrogen fluoride catalysts, Conversion of. F. E. Frey. 2,431,549; Nov. 25.
- Olefins with metal salt solutions, Prevention of emulsions during extraction of. H. R. McCombie and R. L. Kittle. 2,418,183; Apr. 1.
- 1-acyloxy-2-alkylbutadiene-1,3 compounds. J. B. Dickey and C. G. Stuckwisch. 2,432,394; Dec. 9.
- 1-alkoxy-2,4-pentadienes and substituted derivatives thereof. E. R. H. Jones and J. T. McCombie. 2,429,411; Oct. 21.
- 1-aryl-2-oxoalkanes, Preparing. J. B. Tindall. 2,427,822; Sept. 23.
- 1-bromo-4-(n-alkylamino)-hexanes and making them. R. C. Elderfield and J. D. Head. 2,422,957; June 24.
- 1-d-ribitylamino-3,4-xylyl and manufacture of same. H. Spiegelberg. 2,429,244; Oct. 21.
- 1-(dihydroxyphenyl)-2-amino butanol-1 and intermediates, Preparing. C. M. Suter and A. W. Ruddy. 2,431,285; Nov. 18.



- 1-hydroxy-4-arylamino anthraquinones, Preparing. D. X. Klein. 2,419,405; Apr. 22.
- 1-methylcyclohexyl-cyclohexyl carbinol diacetate. J. E. Bludworth and D. P. Easter. 2,426,162; Aug. 26.
- 1-1'-5'-1'-triazinimid-2'-6'-2'' Dicarbazole, Purification of. M. Scaleria. 2,421,163; May 27.
- 1,1,3-trimethylcyclopentane from disobutylene, Separating. A. C. Whitaker. 2,415,454; Feb. 11.
- 1,1,3-trimethylcyclopentane, Production of. J. B. McKinley. 2,415,599; Feb. 11.
- 1-phenyl-2-piperonylidene-hydrazine as a fungicide. E. C. Ladd. 2,429,098; Oct. 14.
- One-piece sheet metal shelf bracket. G. J. Rompre. 2,429,586; Oct. 21.
- One-piece thermometer case. J. Kahl. 2,431,805; Dec. 2.
- 1-polyacyloxyalkylamino-2-amino-4,5-dimethylbenzene and process for preparing the same. M. Tishler and J. W. Wellman. 2,417,143; Mar. 11.
- One revolution trip means. B. Knauer. 2,427,992; Sept. 23.
- 1,3-butylene glycol, Preparation of. I. L. Wolk. 2,419,515; Apr. 22.
- 1,3-butylene glycol, Preparing. C. H. Hamblet and A. McAlevy. 2,426,017; Aug. 19.
- 1,3-butylene glycol, Production of. F. R. Balcer. 2,421,451; June 3.
- 1,3-butylene glycol, Production of. F. J. Metzger. 2,419,275; Apr. 22.
- 1,3-butylene glycol, Production of. R. C. Tollefson. 2,419,300; Apr. 22.
- 1,3-diols from olefins and aldehydes, Making. S. B. Lipincott. 2,423,783; July 8.
- 1,3-epoxyarylofurazanes as parasitocidal preparations. W. P. ter Horst. 2,424,199; July 15.
- 1,3,5-triazine derivatives, Therapeutically active. E. A. H. Friedheim. 2,415,554; Feb. 11.
- 1,3,5-triazine rings, Organometallic compounds containing. E. A. H. Friedheim. 2,415,555; Feb. 11.
- 1,3,5-triazinyl-phenyl-sulfides carrying an arsenic radical. E. A. H. Friedheim. 2,415,556; Feb. 11.
- 1,3,5-triazinyl-(6)-aminophenyl-arsenic compounds, Substituted. E. A. H. Friedheim. 2,422,724; June 24.
- 1,3-glycols, Unsaturated. H. A. Bruson and W. D. Niederhauser. 2,418,290; Apr. 1.
- 1,2-disubstituted-4,5-dihydroimidazoles. L. P. Kurides and F. B. Zienty. 2,418,077; Mar. 25.
- 1,2,3,4-tetrahydro-6-alkoxy-8-(omega-dialkyl-amino) quinolines and their preparation. H. J. Barber and W. R. Wragg. 2,417,726; Mar. 18.
- One-way clutch. C. K. Davis. 2,428,962; Oct. 14.
- Onion topping device. O. T. Barrett and W. E. Pilliar. 2,414,922; Jan. 28.
- Open hearth furnace. E. R. Richards. 2,415,761; Feb. 11.
- Open hearth furnace banks, Repairing. C. A. Hogan. 2,424,825; July 29.
- Open top refrigerated display case. P. H. Brinkoeter. 2,421,314; May 27.
- Opener, Can. B. L. Lewis. 2,429,885; Oct. 28.
- Opener, Can. K. R. McEntire. 2,427,734; Sept. 23.
- Opener, Envelope. W. B. Goughnour. 2,428,490; Oct. 7.
- Opener, Pocket type can. J. W. Speaker. Re. 22,934; Nov. 11.
- Opener, Staple fiber. J. E. Spalding and D. B. Wicker. 2,418,126; Apr. 1.
- Operating and examining table. H. R. Shampaine. 2,416,410; Feb. 25.
- Operating and locking device, Door. H. Kump. 2,428,571; Oct. 7.
- Operating device, Dial. J. E. Anderson. 2,428,135; Sept. 30.
- Operating device for electric circuit breakers, Manual. J. D. Gayer. 2,418,704; Apr. 8.
- Operating means for loom slays, Hydraulic. T. Hindle. 2,428,313; Sept. 30.
- Operating mechanism for vehicles, Servo brake. J. Rodway. 2,416,222; Feb. 18.
- Operating mechanisms. C. W. Wandrey. 2,423,275; July 1.
- Operations with contact masses, Method and apparatus for. T. P. Simpson. 2,416,230; Feb. 18.
- Operator and lock, Shaft. L. Spragen. 2,429,900; Oct. 28.
- Operator for pivoted closures. M. L. Goldbert. 2,430,222; Nov. 4.
- Operator's position for unassigned party line stations, Intercept. W. Hatton. 2,426,210; Aug. 26.
- Opposed piston engine. C. L. Holmes. 2,420,779; May 20.
- Ophthalmic mounting. L. G. Mitby and J. R. Ramstorf. 2,414,757; Jan. 21.
- Optical aligner. J. O. McCarty. 2,425,750; Aug. 19.
- Optical apparatus for comparing objects. K. Butscher. 2,427,256; Sept. 9.
- Optical apparatus for determining angles. J. H. Williams, and A. E. and R. H. Stenning. 2,420,951; May 20.
- Optical axis of a quartz crystal, Determining the. R. J. Watrobski. 2,423,357; July 1.
- Optical bodies composed of silver chloride and silver sulfide and making same. H. C. Kremers and R. E. Price. 2,420,956; May 20.
- Optical bodies, Making. H. C. Kremers and R. E. Price. 2,420,955; May 20.
- Optical compensator. J. F. Leventhal. 2,417,002; Mar. 4.
- Optical device for establishing a working position. W. R. Spiller and R. J. Niederhauser. 2,424,373; July 22.
- Optical device for indicating correct operating speed of phonograph turntables. M. K. Maussard. 2,418,651; Apr. 8.
- Optical device for testing crystal sections. G. W. Willard. 2,419,617; Apr. 29.
- Optical image modulation, Subtractive. I. M. Terwilliger. 2,424,592; July 29.
- Optical instrument. H. S. Alexander. 2,433,186; Dec. 23.
- Optical instrument, Electron. F. E. Runge. 2,425,833; Aug. 19.
- Optical instrument with adjustable specimen support, Electron. F. E. Runge. 2,418,903; Apr. 15.
- Optical instruments, Method and apparatus for checking the accuracy of graduated circles of. K. W. Harper. 2,433,452; Dec. 30.
- Optical lap, Thermoplastic synthetic resin. L. M. Hicks. 2,426,215; Aug. 26.
- Optical lens mounting. M. N. Fairbank. 2,423,491; July 8.
- Optical lenses, prisms, and like optical elements, Production of. A. W. Kingston. 2,432,668; Dec. 16.
- Optical objective. A. Warmisham. 2,430,150; Nov. 4.
- Optical objective. A. Warmisham and C. G. Wynne. 2,416,032-3; Feb. 18.
- Optical objective. A. Warmisham and C. G. Wynne. 2,416,969; Mar. 4.
- Optical objective. A. Warmisham and C. G. Wynne. 2,418,001; Mar. 25.
- Optical objective. A. Warmisham and C. G. Wynne. 2,419,808-4; Apr. 29.
- Optical objectives. A. Cox. 2,417,736; Mar. 18.
- Optical prisms into an optical system, Method and apparatus for assembling. J. R. Turner. 2,428,859; Oct. 14.
- Optical projection apparatus. G. H. Reid and L. G. H. Cantle. 2,414,977; Jan. 28.
- Optical reticle. B. Stechbart. 2,420,503; May 13.
- Optical support. W. A. Arnold and W. G. Norton. 2,430,551; Nov. 11.
- Optical surfaces, Testing. R. Hayward. 2,430,637; Nov. 11.
- Optical system. D. S. Grey. 2,416,442-3; Feb. 25.
- Optical system, Electron. D. Gabor. 2,426,866; Sept. 2.
- Optical system for color photography. E. D. Goodwin. 2,430,121; Nov. 4.
- Optical system for correction of tube wall distortion. F. C. P. Henroteau. 2,429,462; Oct. 21.
- Optical system for periscopes. J. M. Strang. 2,423,267; July 1.
- Optical system for telescopes and binoculars. J. R. Miles. 2,424,283; July 22.
- Optical system, Wide-angle. W. A. Young. 2,430,595; Nov. 11.
- Optical systems comprising a correction element, Schmidt's. A. Bouwers. 2,420,349; May 13.
- Optical testing instrument. K. W. Harper. 2,414,871; Jan. 28.
- Optical time base generator. E. W. Kammer. 2,428,369; Oct. 7.
- Optical transparent film thickness gauge. H. P. Kuehnl. 2,429,066; Oct. 14.
- Optical wedges on lenses and reflectors, Forming. T. W. Sukumlyn. 2,433,635; Dec. 30.
- Order holding device, Train. W. L. White. 2,426,850; Sept. 2.
- Ordinance. A. T. Holman and T. Thomson. 2,417,983; Mar. 25.
- Ordinance, Piece of. H. C. Fischer. 2,413,703; Jan. 7.
- Ore reclaiming machine. L. C. Wren. 2,423,279; July 1.
- Ore roaster. H. L. McFeaters. 2,433,781; Dec. 30.
- Ore treatment process. H. C. Kaweckl. 2,418,073-4; Mar. 25.
- Ores by froth flotations with water-dispersible petroleum sulfonates, Beneficiation of garnet. R. B. Booth and R. A. Pickens. 2,428,763; Oct. 7.
- Ores of zinc, Treating oxidized. N. C. Christensen. 2,425,995; Aug. 19.
- Ores, Reducing. C. O. Brown. 2,418,394; Apr. 1.
- Ores with a mixture of oil-soluble and water-soluble petroleum sulfonates, Froth flotation of non-sulfide. R. B. Booth and E. C. Herkenhoff. 2,433,258; Dec. 23.
- Organ, Electric. P. H. Frohman. 2,426,605; Sept. 2.
- Organic compound with an olefin in presence of hydrofluoric acid, Alkylation of an. G. N. Cade. 2,431,685; Dec. 2.
- Organic compounds by catalytic action, Dehydration. H. Miller. 2,428,673; Oct. 7.
- Organic compounds, Dehydrohalogenating halogenated. R. E. Bowman. 2,419,198; Apr. 22.
- Organic compounds, Separation of. B. S. Friedman. 2,433,751; Dec. 30.
- Organic compounds using titanium hydride as a catalyst, Hydrogenation of. G. M. Whitman. 2,418,441; Apr. 1.
- Organic fluorine compounds in hydrofluoric acid alkylation of hydrocarbons, Decrease of. F. E. Frey. 2,417,106; Mar. 11.
- Organic material and making the same, Coated. F. J. Soday. 2,416,232; Feb. 18.
- Organic peroxides, Stabilization of. H. C. Stevens. 2,415,971; Feb. 18.
- Organic polysulfides. H. A. Bruson. 2,415,002; Jan. 28.



- Organic quaternary ammonium compounds, Condensation derivatives. A. L. Linch. 2,414,050; Jan. 7.
- Organic solvent soluble derivatives of cellulose and preparing the same. W. J. Burke. 2,418,498; Apr. 8.
- Organic substances, Stabilization of. F. B. Downing and C. J. Pedersen. 2,426,766; Sept. 2.
- Organic sulphonates, Preparing purified. J. H. Percy. 2,422,128; June 10.
- Organometallic compounds containing 1,3,5-Triazine rings. E. A. H. Friedheim. 2,418,115; Apr. 1.
- Organometallic compounds containing 1,3,5-triazine rings. E. A. H. Friedheim. 2,430,461; Nov. 11.
- Organometallic compounds containing 1,3,5-triazine rings, Producing. E. A. H. Friedheim. 2,430,462; Nov. 11.
- Organometallic salts. A. J. Beber. 2,426,586; Sept. 2.
- Organo-silicon compounds, Production of. J. B. Rust and C. A. MacKenzie. 2,426,121-2; Aug. 19.
- Orienting and pitting machine, Single stage fruit. E. W. Carroll. 2,413,861; Jan. 7.
- Orienting apparatus. C. H. Schadel. 2,420,447; May 13.
- Orienting apparatus for articles having rounded surfaces. W. A. Kirsch and J. H. Sulzer. 2,418,355; Apr. 1.
- Orienting device. W. J. Means. 2,427,014; Sept. 9.
- Orienting mechanism, Article. S. T. Carter. 2,426,433; Aug. 26.
- Orienting mechanism for pulse echo systems. G. W. Leck. 2,419,999; May 6.
- Orienting work feeder. J. E. Underwood. 2,421,916; June 10.
- Orifice control, Thermostatic. R. C. Porter. 2,421,713; June 3.
- Orifices in pipe in wells, Explosively inserting. M. M. Kinley. 2,426,106; Aug. 19.
- Ornament, Decorative. D. J. Kelman. 2,414,378; Jan. 14.
- Ornament, Novelty. L. J. Campbell. 2,427,257; Sept. 9.
- Ornament, Religious. M. L. Loriaux. 2,431,055; Nov. 18.
- Ornamental wheel trim ring. G. A. Lyon. 2,431,699; Dec. 2.
- Ornamenting machine for shoe uppers. I. Galper. 2,431,033; Nov. 18.
- Oscillating piston internal-combustion engine. C. Richter. 2,416,846; Mar. 4.
- Oscillation generator. B. F. Wheeler. 2,414,991; Jan. 28.
- Oscillation generator. G. G. Young. 2,419,869; Apr. 29.
- Oscillations in high-frequency devices, Suppression of parasitic. J. W. McRae. 2,422,695; June 24.
- Oscillator. J. G. Beard. 2,421,676; June 3.
- Oscillator. P. L. Hartman. 2,414,085; Jan. 14.
- Oscillator. W. P. Mason. 2,424,576; July 29.
- Oscillator and amplifier, Ultra-high frequency. C. E. Haller. 2,415,485; Feb. 11.
- Oscillator, Balanced transmission line. E. O. Willoughby. 2,429,656; Oct. 28.
- Oscillator, Bridge stabilized. V. D. Landon. 2,423,505; July 8.
- Oscillator circuit. S. J. Snyder. 2,415,049; Jan. 28.
- Oscillator, Electrical. E. E. Turner, Jr. 2,419,608; Apr. 29.
- Oscillator, Frequency-modulated crystal. W. P. Mason. 2,424,246; July 22.
- Oscillator, Frequency stabilized. R. L. Harvey. 2,427,498; Sept. 16.
- Oscillator, High-frequency. W. Hotine. 2,416,319; Feb. 25.
- Oscillator, High frequency. R. C. Jensen and J. E. Keister. 2,427,558; Sept. 16.
- Oscillator, Hydraulic. L. B. Case. 2,429,390; Oct. 21.
- Oscillator, Impulse producing. R. B. Hoffman. 2,418,121; Apr. 1.
- Oscillator, Magnetostrictive. F. P. Bundy. 2,431,026; Nov. 18.
- Oscillator, Microwave. S. Gubin. 2,432,193; Dec. 9.
- Oscillator, Multitube self-pulsing. C. D. Kentner. 2,431,179; Nov. 18.
- Oscillator of the cavity resonator type, Ultra high frequency. J. M. Lafferty. 2,423,327; July 1.
- Oscillator of the secondary electron-emission type, High-frequency. C. W. Hansell. 2,420,744; May 20.
- Oscillator, Pulsed. H. J. Dailey and C. H. Scullin. 2,432,227; Dec. 9.
- Oscillator, Pulsed. W. Hausz and A. Alvira. 2,426,021; Aug. 19.
- Oscillator, Pulsed. E. Labin. 2,419,566; Apr. 29.
- Oscillator, Relaxation. O. D. Engstrom. 2,418,825; Apr. 15.
- Oscillator, Scanning. B. J. Kinsburg. 2,418,842; Apr. 15.
- Oscillator, Self-pulsing. H. W. Lord. 2,417,834; Mar. 25.
- Oscillator, Self-pulsing. H. W. Lord. 2,433,282; Dec. 23.
- Oscillator, Stabilized harmonic. G. L. Usselman. 2,425,165; Aug. 5.
- Oscillator, Ultra high frequency. G. W. Fyler. 2,421,255; May 27.
- Oscillator, Variable frequency. A. L. G. de Bey. 2,415,467; Feb. 11.
- Oscillator, Variable frequency cavity resonator. W. A. Stewart. 2,421,725; June 3.
- Oscillator with beat frequency stabilization. W. L. Carlson. 2,432,380; Dec. 9.
- Oscillator with nonlinear grid leak resistor, Electric discharge device. G. M. Brown. 2,420,857; May 20.
- Oscillator with positive and negative feedback, Thermionic valve. A. D. Blumlein. 2,427,491; Sept. 16.
- Oscillators, Controlling high-frequency. N. H. Young, Jr. 2,416,368; Feb. 25.
- Oscillators, Electrical relaxation. P. K. Chatterjea and D. M. Ambrose. 2,426,179; Aug. 26.
- Oscillatory system, Stabilized. H. E. Goldstine. 2,415,874; Feb. 18.
- Oscillograph system for testing electrical contact making devices. H. R. Shillington. 2,432,944; Dec. 16.
- Oscillograph timing circuit. J. G. Woodward. 2,430,154; Nov. 4.
- Outboard engine cooling device. G. Walter. 2,415,154; Feb. 4.
- Outboard motor. R. Karey. 2,431,806; Dec. 2.
- Outboard motor bracket. E. C. Hitzemann. 2,429,551; Oct. 21.
- Outlet box and wire connector, Electrical. J. R. Henderson. 2,427,965; Sept. 23.
- Outlet box coupling. E. A. Lefebvre. 2,425,545; Aug. 12.
- Outlet having a concentric open ended tube for mixing room air with the incoming ventilating air stream, Air mixing and diffusing. F. J. Kurth and F. Honerkamp. 2,418,266; Apr. 1.
- Outside pipe cutter. D. H. Reed. 2,418,278; Apr. 1.
- Oven, Continuous bake. T. J. Stephens. 2,431,207; Nov. 18.
- Oven control. M. H. Cody. 2,421,452; June 3.
- Oven, Drying. O. O. Kruse. 2,432,525; Dec. 16.
- Oven, Electric. H. N. Shaw. 2,415,768; Feb. 11.
- Oven, Pipe cleaning. F. A. Smith. 2,416,412; Feb. 25.
- Oven structure. W. H. Hudson. 2,419,643; Apr. 29.
- Over-current and under-current protective switch. F. J. Pavitt. 2,431,886; Dec. 2.
- Overhead and swingably mounted balanced door. A. E. Violante. 2,425,905; Aug. 19.
- Overhead boxcar door. O. M. Williams. 2,424,728; July 29.
- Overlapping joint. M. B. Heftler. 2,415,881; Feb. 18.
- Overload controlling plug. T. A. Dear. 2,427,390; Sept. 16.
- Overload relay. D. Ellis and O. L. Taylor. 2,414,513; Jan. 21.
- Overload release clutch. W. C. Steinmetz. 2,430,691; Nov. 11.
- Overload release coupling. E. Sirp. 2,432,633; Dec. 16.
- Overrunning clutch. I. J. Gruenberg. 2,428,968; Oct. 14.
- Overshoe-boot. A. E. Shaffer. 2,425,208; Aug. 5.
- Oxazole compounds of the anthraquinone series. J. Deinet. 2,415,937; Feb. 18.
- Oxidation of lower aliphatic alcohols. D. C. Hull. 2,425,881-2; Aug. 19.
- Oxidation process, Mercaptan. W. W. Crouch. 2,421,545; June 3.
- Oxidation products of perchlorethylene, Manufacture of. A. Rushmer and W. W. Smith. 2,427,624; Sept. 16.
- Oxide from the surface of metals, Removing. H. R. Spence and H. W. Hooker. Re. 22,887; June 3.
- Oxide gel, Preparing an inorganic. M. M. Marisc. 2,418,282; Apr. 1.
- Oximeter, Multiunit, single scale. B. Smaller. 2,423,855; July 15.
- Oxo carbonyl compounds, Preparation of. R. D. Cramer. 2,432,287; Dec. 9.
- Oxy-acetylene cutting machine. F. B. Loucks. 2,414,750; Jan. 21.
- Oxy-acetylene welding or cutting equipment. H. A. E. Talley. 2,414,345; Jan. 14.
- Oxygen, Absorbing. L. Kurland. 2,421,568; June 3.
- Oxygen breather, Self-contained emergency. I. M. Levitt. 2,428,425; Oct. 7.
- Oxygen containing derivatives of aliphatic hydrocarbons, Preparation of pure. A. Landgraf and O. Roelen. 2,415,102; Feb. 4.
- Oxygen content of the blood of living animals, Method and apparatus for controlling the. H. M. Kirschbaum. 2,414,747; Jan. 21.
- Oxygen in gas mixtures, Measurement of. G. A. Perley and J. B. Godshalk. 2,422,129; June 10.
- Oxygen, Manufacture of. E. Gorin. 2,418,402; Apr. 1.
- Oxygen treated organic products and producing them. M. T. Harvey. 2,415,096; Feb. 4.
- Oxygenated compounds from olefins, Preparation of. C. G. Ludeman. 2,428,119; Sept. 30.
- Oxygenated sulfur compounds, Production of. W. A. Proell and R. H. Shoemaker. 2,433,395; Dec. 30.
- Ozonizer construction. D. K. Allison. 2,429,152; Oct. 14.
- p-Aminobenzene-sulfonamides and their manufacture. H. Martin and R. Hirt. 2,429,207; Oct. 21.
- p-Aminobenzene sulfone-N-acylamides, Manufacture of. H. Martin and F. Häfziger. 2,417,005; Mar. 4.
- p-Aminobenzenesulphonamidopyrimidines, Making. M. Hartmann, H. von Meyenburg, and J. Druey. 2,429,184; Oct. 14.
- p-Chloro-acetophenone semibarbazone as an insecticide. S. I. Gertler and H. L. J. Haller. 2,426,349; Aug. 26.
- p-Nitrophenyl dichloroisobutyl ether. W. F. Hester and W. E. Craig. 2,425,534; Aug. 12.
- Pack bag. M. D. Frazee. 2,428,795; Oct. 14.
- Pack stand. C. O. Westover. 2,420,805; May 20.
- Package. S. B. Hogdal. 2,422,899; June 24.
- Package. S. B. Hogdal. 2,427,858; Sept. 23.
- Package. T. S. Olsen. 2,429,191; Oct. 14.



- Package. F. P. Wood. 2,429,538; Oct. 21.  
 Package-binding tool support. G. A. Crosby and A. I. Ericsson. 2,416,910; Mar. 4.  
 Package, Dispensing. M. R. Reitman. 2,418,526; Apr. 8.  
 Package, Display. C. B. Holm. 2,432,892; Dec. 16.  
 Package, Display. L. Treeck. 2,419,745; Apr. 29.  
 Package, High-pressure gaseous oxygen. D. Mapes. 2,426,030; Sept. 2.  
 Package unit for envelopes and paper. E. G. Overly. 2,425,895; Aug. 19.  
 Packages, Continuously forming fluid-tight. H. F. Waters. 2,432,054; Dec. 2.  
 Packages of yarn, including rotating the packages, Vacuum drying. P. H. van Scherpenzeel. 2,432,951; Dec. 16.  
 Packaging and forming the same. G. R. Browner. 2,425,301; Aug. 12.  
 Packaging for jig saw puzzles and the like. D. M. Warren. 2,427,318; Sept. 9.  
 Packaging machine. J. G. Vergobbi. 2,415,978; Feb. 18.  
 Packaging machine, Automatic. W. R. Zwoyer. 2,419,982; May 6.  
 Packaging machine, Vacuum. S. H. Berch. 2,428,192; Sept. 30.  
 Packaging method. H. F. Waters. 2,428,440; Oct. 7.  
 Packaging, Method and apparatus for tight-wrap. D. E. Marshall and F. R. Clark. 2,424,406; July 22.  
 Packaging, Method of and machine for. L. L. Salfisberg. 2,420,983; May 20.  
 Packaging of food products, Method of and apparatus for. C. M. Lamb, Jr., H. M. Wyman, Jr., and V. E. Heywood. 2,415,292; Feb. 4.  
 Packboard. O. C. Daiber. 2,421,244; May 27.  
 Packer, Case. W. D. Kimball. 2,430,878; Nov. 18.  
 Packing and making the same. R. M. Hill. 2,424,567; July 29.  
 Packing device. A. L. Sherwood. 2,431,775; Dec. 2.  
 Packing device having fastener means for facilitating the formation of attractive display layers. G. H. Herwig. 2,421,264; May 27.  
 Packing means for pistons. M. B. Jackson. 2,426,613; Sept. 2.  
 Packing ring. L. W. Rodgers and S. H. Simpson. 2,417,840; Mar. 25.  
 Packing ring. C. C. Smith. 2,425,649; Aug. 12.  
 Packing strip applying machines, Detecting and ejecting. P. E. Pearson. 2,425,637; Aug. 12.  
 Packing structure. S. V. E. Taylor. 2,430,836; Nov. 11.  
 Packings, Self-restoring water-stop and other waterproofing. A. C. Fischer. 2,431,384; Nov. 25.  
 Pad: See—  
     Adjustable shoulder pad. Molded pulp cushion pad.  
     Breast pad. Removable garment pad.  
     Bust-contour pad. Rotary buck pad.  
     Electrically heated shoulder pad. Sanding pad.  
     Electrode pad. Shoulder pad.  
     Heating pad. Stair pad.  
     Inflated truss pad. Stamp pad.  
     Knee pad. Truss pad.  
 Pad and making the same, Shoulder. B. Mechur and W. Riedler. 2,424,482; July 22.  
 Pad control, Electric heating. D. B. MacKendrick. 2,421,953; June 10.  
 Pad cover. E. R. Davis. 2,413,750; Jan. 7.  
 Pad for beds and cribs, Sanitary. C. Chapman. 2,414,927; Jan. 28.  
 Pad for garments, Shoulder. L. Siteman. 2,420,799; May 20.  
 Pad for ironing boards, Electrolytic steam. L. I. Osipow and E. Blumenthal. 2,423,945; July 15.  
 Pad for stencil duplicators, Ink. R. L. Johnson. 2,424,988; Aug. 5.  
 Pad retaining device. A. W. Whiteford. 2,426,758; Sept. 2.  
 Padding and sound proofing material. H. and I. J. Rumpf. 2,419,971; May 6.  
 Padding member for garment hangers. E. L. Samann. 2,420,101; May 6.  
 Padlock. R. K. Gray. 2,433,114; Dec. 23.  
 Padlock. J. Hines. 2,419,213; Apr. 22.  
 Padlock. L. W. Young. 2,428,902; Oct. 14.  
 Pads, Making cleansing. L. H. Englund. 2,432,091; Dec. 9.  
 Pail, Milk. R. J. Gooden. 2,422,541; June 17.  
 Paint. H. E. Althouse. 2,419,048; Apr. 15.  
 Paint. P. Zurcher. 2,414,427; Jan. 14.  
 Paint. P. Zurcher. 2,427,082; Sept. 9.  
 Paint and making, Fire-resisting and moistureproof. O. La Cagnina. 2,429,957; Oct. 28.  
 Paint applying device, Portable. J. C. De Marco. 2,419,338; Apr. 22.  
 Paint, Aqueous emulsion. M. T. Schmidt and J. K. Wise. 2,430,828; Nov. 11.  
 Paint brush holder. A. O. Kell. 2,424,099; July 15.  
 Paint brush holder. H. C. Long. 2,420,487; May 13.  
 Paint composition, Matt black. J. D. Main-Smith and E. C. Jones. 2,422,429; June 17.  
 Paint remover. J. H. Muller. 2,417,943; Mar. 25.  
 Paint remover composition. H. Packer. 2,418,138; Apr. 1.  
 Paint spraying machine. R. L. Griffin and N. Y. Moore. 2,416,622; Feb. 25.  
 Paints, Water-thinned. G. B. Weible and R. J. Burns. 2,427,481; Sept. 16.  
 Pallet. O. F. Arthur. 2,430,267; Nov. 4.  
 Pallet. W. T. Donahue. 2,432,295; Dec. 9.  
 Pallet, Breast. R. Goddard. 2,429,680; Oct. 28.  
 Pan handle. J. F. Kluit. 2,431,808; Dec. 2.  
 Panelboard of detachably mounted electrical devices. E. T. Platz. 2,428,320; Sept. 30.  
 Panelboard of detachably mounted stitching devices. W. Robertson and L. W. Higgins. 2,428,322; Sept. 30.  
 Panel construction. G. H. Lenke. 2,422,837; June 24.  
 Panel construction, Architectural. C. G. Strandlund. 2,416,240; Feb. 18.  
 Panel for motor cars and other vehicles, Instrument. F. J. Hurn. 2,423,597; July 8.  
 Panel, Hospital walking exercise. W. C. Bull. 2,427,761; Sept. 23.  
 Panel, Sound deadening. L. T. Milnor. 2,423,199; July 1.  
 Panel, Terminal. W. C. MacFadden. 2,420,754; May 20.  
 Panic lock. J. H. Moorhouse. 2,426,041; Aug. 19.  
 Pantothenic acid and other related growth promoting substances, Production of. R. J. Williams. 2,414,682; Jan. 21.  
 Pants. T. B. Terry. 2,417,529; Mar. 18.  
 Pants hanger. R. Hultsch. 2,422,732; June 24.  
 Pants hanger. H. J. Zimmermann. 2,418,106; Mar. 25.  
 Paper and composition therefor, Coating. G. R. Dickerman and R. W. Riley. 2,425,231; Aug. 5.  
 Paper and preparing the same, Thermoplastic. F. H. Osborne. 2,414,833; Jan. 28.  
 Paper and producing the same, Coated. H. Y. Jennings. 2,432,074; Dec. 2.  
 Paper and the like, Method of and apparatus for making tube of. H. T. Epstein. 2,422,188; June 17.  
 Paper box. B. H. Lengsfeld. 2,417,653; Mar. 18.  
 Paper box. H. L. Snyder. 2,414,703; Jan. 21.  
 Paper, cellulose, and the like bags. A. Ashman. 2,429,505; Oct. 21.  
 Paper collector for paper handling machines. V. E. Pratt and G. F. Gray. 2,433,530; Dec. 30.  
 Paper, Creping. F. P. Wood. 2,429,706; Oct. 28.  
 Paper, Decalcomania. J. W. Stewart. 2,425,653; Aug. 12.  
 Paper, Desiccant. W. W. Gary. 2,417,924; Mar. 25.  
 Paper dish holder. W. E. Amberg. 2,414,920; Jan. 28.  
 Paper feed mechanism. J. Mueller. 2,426,944; Sept. 2.  
 Paper feeder. M. E. Morris. 2,423,563; July 8.  
 Paper feeding device for writing machines. L. C. Antrim and F. Schultz. 2,426,333; Aug. 26.  
 Paper feeding device, Pin type. A. A. Johnson. 2,432,967; Dec. 16.  
 Paper, Greaseproof. J. K. Boggs and G. H. Sullivan. 2,416,734; Mar. 4.  
 Paper guiding means for writing machines, Front feed. E. F. Britten, Jr. 2,425,172; Aug. 5.  
 Paper holder. R. Usenza. 2,429,571; Oct. 21.  
 Paper, Indenting felt. A. L. Jennings. 2,432,993; Dec. 23.  
 Paper, Laminated greaseproof. G. C. Borden, Jr., and W. Herrick. 2,415,551; Feb. 11.  
 Papermaking apparatus. H. T. Kneare. 2,421,272; May 27.  
 Papermaking machine. L. Hornbostel and J. E. Goodwillie. 2,415,351; Feb. 4.  
 Papermaking machine, Fourdrinier. E. W. Clem. 2,421,829; June 10.  
 Paper moistening dispenser. H. M. Herman. 2,424,565; July 29.  
 Paper money sorting machine. T. E. Hayes. 2,425,318; Aug. 12.  
 Paper, Photographic. H. T. Galley. 2,415,631; Feb. 11.  
 Paper powder can. H. K. Dickerman. 2,420,738; May 20.  
 Paper product, Coated. C. D. Ender. 2,423,553; July 8.  
 Paper product, Laminated. R. A. Steffen. 2,423,053; June 24.  
 Paper punch, Spring. J. A. Bishop. 2,424,539; July 29.  
 Paper roll holder. J. N. Rougas. 2,422,749; June 24.  
 Paper sheet handling method and mechanism. O. Müller and O. Kleinschmit. 2,422,629; June 17.  
 Paper sorter. L. W. Evans. 2,429,349; Oct. 21.  
 Paper stock, Hydrating. E. Cowles. 2,426,923; Sept. 2.  
 Paper stock, Method and apparatus for defibering. E. Cowles. 2,418,547; Apr. 8.  
 Paper treating method. F. P. Wood. 2,429,539; Oct. 21.  
 Paper, Treatment of. H. M. Kvalnes. 2,422,423; June 17.  
 Paper, Weather resistant flameproof. E. R. Laughlin, J. L. Ayres, and P. J. Mitchell, Jr. 2,416,447; Feb. 25.  
 Paper weight. I. L. Mitchell. 2,427,870; Sept. 23.  
 Papers, Creping corrugated. W. W. Rowe. 2,425,207; Aug. 5.  
 Para-aminobenzene-sulfonylguanidine, Manufacture of. M. Hartmann and H. von Meyenburg. 2,416,995; Mar. 4.  
 Parachute. A. P. Atherton. Re. 22,859; Apr. 1.  
 Parachute. E. R. Boland. 2,418,456; Apr. 8.  
 Parachute and elastic suspension line. S. W. Severance. 2,422,440; June 17.  
 Parachute and like flare. C. D., A., and C. Schermuly. 2,416,957; Mar. 4.  
 Parachute back pack and harness assembly. C. S. Kowalski. 2,430,773; Nov. 11.  
 Parachute canopy, Hemispherical. L. P. Frieder and W. S. Finken. 2,426,926; Sept. 2.  
 Parachute cluster. P. F. Smith. 2,421,167; May 27.



- Parachute harness connector. L. M. Johnston. 2,430,341; Nov. 4.
- Parachute harness, Quick-release. H. Wilson. 2,431,358; Nov. 25.
- Parachute load release. S. Blendon. 2,416,568; Feb. 25.
- Parachute release. F. C. Anderson. 2,424,215; July 22.
- Paracresol and pyridine base compounds thereof from mixtures with metacresol, Separating. F. E. Cislak and M. M. Otto. 2,432,063; Dec. 2.
- Paraffin alkylation in the presence of hydrogen fluoride. S. T. Hadden. 2,430,333; Nov. 4.
- Paraffin, Chlorinating. P. Bosko. 2,433,419; Dec. 30.
- Paraffinic hydrocarbons, Selective demethylation of. V. Haensel and V. N. Ipatieff. 2,422,670; Jan. 24.
- Paraffins, Alkylation of. F. E. Frey. 2,413,759; Jan. 7.
- Paraffins and naphthenes in a mixed feed, Isomerizing. S. H. McAllister and C. C. Crawford. 2,420,086; May 6.
- Paraffins from iso-paraffins by means of activated coconut charcoal, Separation of normal. H. J. Hibshman. 2,425,535; Aug. 12.
- Paraffins in the presence of nascent aluminum halide and a heterocyclic compound, Isomerization of. C. G. Myers, R. C. Hansford, and A. N. Sachanen. 2,424,953; July 29.
- Paraffins, Isomerization of normal. E. E. Sensel. 2,425,268; Aug. 5.
- Paraffins, Isomerization of normal. T. J. Williams. 2,419,667; Apr. 29.
- Paraffins, Production of. M. P. Matuszak. 2,432,030; Dec. 2.
- Paraformaldehyde modified reaction products of diisocyanates with linear polyester polyamide. B. J. Hagood, D. A. Harper, and R. J. W. Reynolds. 2,424,883; July 29.
- Paraformaldehyde treatment of reaction products of diisocyanate with linear polyesters and linear polyester-amides and products resulting therefrom. J. M. Buist, D. A. Harper, W. F. Smith, and G. N. Welding. 2,424,885; July 29.
- Parallel piston engine. C. L. Holmes. 2,421,884; June 10.
- Parallel screw clamp. J. G. Linnartz. 2,419,270; Apr. 22.
- Parasites in soil, Controlling. O. H. Hammer. 2,419,073; Apr. 15.
- Parasiticide mixtures, Preparation of. G. E. Lynn and B. J. Thiels. 2,423,457; July 8.
- Paring and coring machine, Apple. J. F. Lindner. 2,418,805; Apr. 8.
- Parking apparatus, Vehicle. R. L. Sinclair. 2,428,856; Oct. 14.
- Parking device. A. Miller. 2,416,838; Mar. 4.
- Parking meter. G. H. Partin. 2,416,212-13; Feb. 18.
- Partial product multiplying machine. S. M. Gleser and A. Treiman. 2,432,569; Dec. 16.
- Partial product structure. L. P. Crosman. 2,414,027; Jan. 7.
- Particle form solids, Method and apparatus for transferring. T. P. Simpson. 2,423,411; July 1.
- Particles for production of metal powders or pastes, Method and apparatus for working. P. I. Klock. 2,431,565; Nov. 25.
- Partition strip assembling machine. J. E. Wilske, A. S. Jackson, and F. A. McCormick. 2,429,007; Oct. 14.
- Passing liquid downward through first and second beds of zeolite and thereafter passing liquid downward through said second and first beds of zeolite. F. D. Prager. 2,429,943; Oct. 28.
- Paste applicator having a serrated edge, Dehorning. C. C. and H. F. Bowman. 2,420,582; May 13.
- Paste, Detergent. J. Kamlet. 2,421,703; June 3.
- Paste, Fabric treating. E. P. Hartsfield and J. L. Richmond. 2,419,399; Apr. 22.
- Paste for electric storage battery plates, Preparing. W. J. Plews and B. Chiego. 2,422,437; June 17.
- Paste spreader, Linoleum. C. West. 2,425,215; Aug. 5.
- Paste, Writing. L. J. Biro. 2,416,145; Feb. 18.
- Pastes containing new diazoamino compounds, Printing. C. W. Maynard, Jr., and E. G. Wiest. 2,416,187; Feb. 18.
- Pasteurizer. W. T. Lee. 2,427,146; Sept. 9.
- Pasteurizing apparatus. E. K. Kintner. 2,428,880; Oct. 14.
- Pasteurizing liquids, Method and apparatus for. R. E. Olson. 2,415,304; Feb. 4.
- Pastry glazing machine. P. F. Ratcliffe. 2,417,614; Mar. 18.
- Pastry shell cutter. M. Thorud. 2,415,976; Feb. 18.
- Patch, Adhesive tension. E. R. Weaver. 2,413,737; Jan. 7.
- Patch pocket, Producing mock. I. J. Herman and A. D. Davis. 2,423,558; July 8.
- Patient-lift. A. L. Bresch. 2,429,865; Oct. 28.
- Pattern controlled machine tool. J. B. Armitage and T. F. Eserkalm. 2,415,801; Feb. 11.
- Pattern sheet control switch. F. P. Elliott. 2,431,380; Nov. 25.
- Patterning mechanism. J. E. Lynam and P. G. McCarthy. 2,416,933; Mar. 4.
- Patterning mechanism of knitting machines. G. K. Wilders and J. E. Lynam. 2,431,218; Nov. 18.
- Patterns and forging dies, Making. O. A. Wheelon. 2,422,325; June 17.
- Patterns and use thereof, Making. E. H. Zahn and R. C. Feagin. 2,420,851; May 20.
- Patterns, Making. R. J. Miller. 2,420,756; May 20.
- Pavement repairing and the like. W. Blankner. 2,420,410; May 13.
- Paving machine, Tandem bucket. R. A. Beckwith. 2,431,682; Dec. 2.
- Pea shooter. O. Berrayarza and D. C. Hill. 2,427,490; Sept. 16.
- Peak transient meter. D. F. Alexander. 2,422,766; June 24.
- Peanut protein, Preparation of. S. N. McGeoch. 2,424,408; July 22.
- Pearlite and like substances, Expanding. R. Neuschotz. 2,421,902; June 10.
- Pearlite, Expanding. R. Neuschotz. 2,431,884; Dec. 2.
- Peat and other aqueous materials, Drying. G. Bojner. 2,413,942; Jan. 7.
- Pebble heater. B. J. Ferro, Jr. 2,432,520; Dec. 16.
- Pebble heater. B. J. Ferro, Jr. 2,432,872; Dec. 16.
- Pebble heater control. B. J. Ferro, Jr., and J. F. Church. 2,432,873; Dec. 16.
- Pectic substances and their preparation. E. F. Bryant. 2,419,883; Apr. 29.
- Pectin, Preparing. H. T. Leo and C. C. Taylor. 2,425,947; Aug. 19.
- Pectinates, Preparing. E. F. Bryant. 2,418,865-6; Apr. 15.
- Pectinized sugar composition. A. M. Zenzen. 2,429,660; Oct. 28.
- Pedal assembly, Rudder. B. G. Eaton, Jr., W. O. Meyer, C. H. Cannon, Jr., and L. G. Raiche. 2,420,528; May 13.
- Pedal for automobiles, Left foot accelerator. J. H. Fletcher. 2,430,561; Nov. 11.
- Pedal-operated aquatic vehicle. C. W. Gillam. 2,420,422; May 13.
- Pedal, Vehicle control. H. H. Robson. 2,432,682; Dec. 16.
- Pedestal and base connector structure therefor. S. H. Frankel. 2,427,206; Sept. 9.
- Pedestal safety tie means. K. F. Nystrom and V. L. Green. 2,424,327; July 22.
- Pedestal structure. S. H. Frankel. 2,422,297; June 17.
- Peeler, Shrimp. F. S. Lapeyre and J. M. Lapeyre, III. 2,429,828; Oct. 28.
- Peg for stringed instruments. T. Rohner. 2,421,715; June 3.
- Pelican hook. W. R. MacCluney. 2,419,650; Apr. 29.
- Pelican hook. W. R. MacCluney. 2,422,916; June 24.
- Pellet mill. E. N. Meakin. 2,432,326; Dec. 9.
- Pelt drying device. K. D. Hay. 2,429,814; Oct. 28.
- Pen and pencil retainer. F. E. Hornbeck. 2,422,642; June 17.
- Pen, Drafting. A. Szerenyi. 2,418,796; Apr. 8.
- Pen, Fountain. H. A. Bauer, F. D. Woods, and G. L. Beckstrom. 2,424,731; July 29.
- Pen, Fountain. G. D. Cloutier. 2,419,483; Apr. 22.
- Pen, Fountain. A. O. Dahlberg. 2,417,861; Mar. 25.
- Pen, Fountain. B. W. Hanle. 2,422,351; June 17.
- Pen, Fountain. W. H. Huenergardt. 2,426,453; Aug. 26.
- Pen, Fountain. C. K. Lovejoy. 2,432,112; Dec. 9.
- Pen, Fountain. C. Mellonis. 2,427,222; Sept. 9.
- Pen, Fountain. D. P. Moore. 2,425,198; Aug. 5.
- Pen, Fountain. J. A. Moore. 2,416,112; Feb. 18.
- Pen, Fountain. F. M. Pisculli. 2,416,770; Mar. 4.
- Pen, Fountain. S. Rosenthal. 2,416,596; Feb. 25.
- Pen, Fountain. R. T. Wing. 2,428,863; Oct. 14.
- Pen, Ink reservoir. A. E. Andrews and W. F. Johnson. 2,431,015; Nov. 18.
- Pen, Recording meter. W. V. Cook. 2,432,090; Dec. 9.
- Pen, Ruling. J. T. Brubaker. 2,425,143; Aug. 5.
- Pen, Writing. B. W. Hanle. 2,432,012; Dec. 2.
- Pencil, Magazine. B. D. Smith. 2,418,854; Apr. 15.
- Pencil, Mechanical ink. J. C. Wahl. 2,427,033; Sept. 9.
- Pencil, Mechanical ink. J. C. Wahl. 2,427,243; Sept. 9.
- Pencil pointer. E. Yondorf. 2,423,280; July 1.
- Pencil, Propelling. H. M. Farrington. 2,427,648; Sept. 16.
- Pencil, Rear loading screw-feed mechanical. H. A. Bauer. 2,427,941; Sept. 23.
- Pendulum operated azimuth and zenith recording means. F. H. Hagner. 2,430,814; Nov. 11.
- Pendulum escapement coin-controlled parking meter. W. J. and W. F. Herschede, and W. N. Woodruff. 2,433,433; Dec. 30.
- Pendulum type telegraph key, Electromagnetically operated. B. H. Breedlove. 2,425,457; Aug. 12.
- Penicillin by mold culture, Producing. G. M. Eisenberg and J. L. Metzendorf. 2,422,777; June 24.
- Penicillin, Isolation of. J. L. Wachtel. 2,432,638; Dec. 16.
- Penicillin, Producing. W. L. Koerber. 2,424,832; July 29.
- Penicillin, Production of increased yields of. R. D. Coghill and A. J. Moyer. 2,423,873; July 15.
- Penicillin, Purification of. K. Fasternack and P. P. Regna. 2,430,946; Nov. 18.
- Pentachloropropane, Producing a solid. R. E. Plump. 2,420,975; May 20.
- Pentaerythrite tetranitrate explosive. H. Muller. 2,430,239; Nov. 4.
- Pentaerythritol products, Preparation of. J. A. Wyler. 2,414,576; Jan. 21.
- Pentahalophenoxyalkanols. C. W. MacMullen. 2,416,263; Feb. 18.



- Perambulator, cot, and other articles, Collapsible or folding. R. Lenthall. 2,425,195; Aug. 5.
- Perception apparatus with means for dropping target elements at different distances from the observer, Depth. E. L. Stromberg. 2,425,014; Aug. 5.
- Perchlorohexatriene, Fluorination of. W. S. Struve. 2,431,969; Dec. 2.
- Perchlorolefins, Purification of certain. J. S. Sconce. 2,418,109; Apr. 1.
- Percolator. W. D. Curtis. 2,415,339; Feb. 4.
- Percolator, Coffee. S. Battilani. 2,429,116; Oct. 14.
- Perfluorocyclohexadiene. W. B. Ligett, E. T. McBee, and V. V. Lindgren. 2,432,997; Dec. 23.
- Perforated face display. R. E. Swain. 2,429,379; Oct. 21.
- Perforating gun, Externally fired. P. W. Martin. 2,433,231; Dec. 23.
- Perforator, Well casing. M. Schlumberger. 2,429,240; Oct. 21.
- Perforator with projectiles. J. B. Schiavon. 2,414,900; Jan. 28.
- Periodically actuated jet motor. A. G. Forsyth. 2,427,845; Sept. 23.
- Periscopic bore sight. L. H. Brown. 2,422,181; June 17.
- Permanent magnet alloy. W. Dannöhl and H. Neumann. 2,428,205; Sept. 30.
- Permeability-tuned short-wave spread-band receiver. W. F. Sands. 2,424,506; July 22.
- Peroxide solutions, Stabilization of. J. S. Reichert and A. T. Hawkinson. 2,426,514; Aug. 19.
- Peroxides from hydrocarbon oils, Removal of. L. M. Henderson, D. C. Bond, and M. Savoy. 2,427,212; Sept. 9.
- Pessary. C. C. Waterbury. 2,422,377; June 17.
- Pessary. C. C. Waterbury. 2,423,356; July 1.
- Pessary clamping means. Y. H. Kurkjian. 2,432,769; Dec. 16.
- Pessary suspension means, Lateral grip. Y. H. Kurkjian. 2,432,770; Dec. 16.
- Pest control. E. W. Bousquet. 2,418,458-9; Apr. 8.
- Pest control composition and method. C. A. Littler. 2,430,576; Nov. 11.
- Petroleum distillate and improving. E. T. Scafe and J. Herman. 2,423,406; July 1.
- Petroleum distillates, Treating. J. A. Bolt. 2,413,945; Jan. 7.
- Petroleum, Distillation of crude. W. E. McCorquodale, Jr., and L. G. Magill. 2,426,110; Aug. 19.
- Petroleum emulsions, Breaking. C. M. Blair, Jr. 2,422,177; June 17.
- Petroleum emulsions, Breaking. C. M. Blair, Jr., and D. M. Schulz. 2,423,364; July 1.
- Petroleum emulsions, Breaking. P. G. Carpenter. 2,425,175; Aug. 5.
- Petroleum emulsions, Breaking. M. De Groote. 2,417,738-40; Mar. 18.
- Petroleum emulsions, Breaking. M. De Groote and B. Keiser. 2,429,996-2,430,003; Nov. 4.
- Petroleum oil compositions. A. G. Rocchini and C. B. Pattinson, Jr. 2,420,446; May 13.
- Petroleum oil compositions. A. G. Rocchini and C. B. Pattinson, Jr. 2,432,806-7; Dec. 16.
- Petroleum oil containing naphthenic acids, Refining. M. C. Fugua and J. B. Lovell. 2,424,158; July 15.
- Petroleum oils, Treatment of. N. J. and J. N. Datesh. 2,431,792; Dec. 2.
- Petroleum product cracking apparatus. F. E. Mason. 2,431,060; Nov. 18.
- Petroleum wax coating composition. J. C. Zimmer and E. W. Carlson. 2,429,150; Oct. 14.
- Petticoat. F. A. Hartridge. 2,429,128; Oct. 14.
- Petzval type projection lenses, Modified. W. Schade. 2,430,587; Nov. 11.
- Pharmaceutical composition containing theophylline. J. C. Krantz, Jr., and J. M. Holbert. 2,433,765; Dec. 30.
- Phase and drive-coupling arrangement for facsimile machines. J. R. Shonnard. 2,421,438; June 3.
- Phase control apparatus. R. F. Mozley and D. S. Pensyl. 2,427,366; Sept. 16.
- Phase correcting arrangement for electronic type selecting systems. H. A. Burgess. 2,433,340; Dec. 30.
- Phase indicator. M. Dichter. 2,431,794; Dec. 2.
- Phase measuring system employing frequency modulation. S. A. Scherbatskoy. 2,428,180; Sept. 30.
- Phase modulation. N. I. Korman. 2,430,126; Nov. 4.
- Phase modulation receiver. M. G. Crosby. 2,420,230; May 6.
- Phase responsive apparatus. R. D. McCoy. 2,429,636; Oct. 28.
- Phase responsive circuit. C. W. Johnstone. 2,419,219; Apr. 22.
- Phase shift, Method of and apparatus for determining. C. Farrow. 2,416,517; Feb. 25.
- Phase shifting means. N. Marchand. 2,414,475; Jan. 21.
- Phenol aldehyde resins and products derived therefrom, Setting. P. H. Rhodes. 2,414,416; Jan. 14.
- Phenol esters of silicon oxychlorides and producing them. V. Morrill, Jr. 2,416,531; Feb. 25.
- Phenol formaldehyde molding composition, Making. W. H. Adams, Jr. 2,424,787; July 29.
- Phenol-formaldehyde-protein plastic materials for extrusion or injection. F. E. Calvert. 2,424,383; July 22.
- Phenol-formaldehyde resin in a mixture of solvents, Coating composition comprising. C. H. Hempel and F. J. Ploederl. 2,420,134; May 6.
- Phenol from a phenol-resorcinol mixture, Recovering. H. W. Mohrman. 2,433,143; Dec. 23.
- Phenol, Making. R. H. Kriebel and W. I. Denton. 2,415,101; Feb. 4.
- Phenolates, Manufacture of organic mercury. Albert S. Flanner. 2,430,287; Nov. 4.
- Phenolic sheet, Treating. W. I. Beach, R. L. Whann, and A. S. Peterson. 2,433,643; Dec. 30.
- Phenolic sulfide, Producing. T. J. Peters, Jr., and J. E. J. Kane. 2,425,824; Aug. 19.
- Phenols, Alkylation of. L. Schmerling and V. N. Ipatieff. 2,430,190; Nov. 4.
- Phenols, Alkylation of. G. H. Stillson. 2,428,745; Oct. 7.
- Phenols by reaction of phenol with styrene, Preparation of substituted. J. W. Underwood. 2,432,356; Dec. 9.
- Phenothiazine derivatives. A. A. Levi. 2,415,252; Feb. 4.
- Phenothiazine, Producing. L. M. Geiger and C. N. Beck. 2,433,658; Dec. 30.
- Phenothiazine, Refining of. J. Mitchell and G. A. Webb. 2,415,363; Feb. 4.
- Phenyl and substituted phenyl acrylates and their polymers, Manufacture of. E. M. Filachione and C. H. Fisher. 2,423,089; July 1.
- Phenyl and tolyl alpha-acetoxypropionate and their preparation. E. M. Filachione and C. H. Fisher. 2,425,523; Aug. 12.
- Phloroglucids containing diazo photoprinting material. J. M. Straley. 2,432,593; Dec. 16.
- Phonograph arrangement. C. W. Dann and R. M. Somers. 2,414,140; Jan. 14.
- Phonograph, Automatic. M. R. Winkler. 2,425,974; Aug. 19.
- Phonograph, Electric. L. D. Norton. 2,425,486; Aug. 12.
- Phonograph, Multiselective. J. F. Eakins. 2,416,436; Feb. 25.
- Phonograph pickup device. R. M. Heintz. 2,413,971; Jan. 7.
- Phonograph pickup device. B. Roberts. 2,432,444; Dec. 9.
- Phonograph pickup of the capacity type, Electric. R. Snepvangers. 2,426,061; Aug. 19.
- Phonograph record illuminating device. F. P. Keiper. 2,429,064; Oct. 14.
- Phonograph recording and reproducing system. I. P. Rodman. 2,426,241; Aug. 26.
- Phonograph reproducer. E. F. McClain, Jr. 2,430,476; Nov. 11.
- Phonograph resistance type pickup, Electric. J. J. Root. 2,429,137; Oct. 14.
- Phonograph stylus mount. R. A. MacDonald. 2,418,591; Apr. 8.
- Phonographic apparatus. S. Appleby. 2,416,185; Feb. 18.
- Phonographic record cleaner. C. E. and U. S. Disser. 2,417,590; Mar. 18.
- Phonographic stylus. F. E. Williamson. 2,418,212; Apr. 1.
- Phosphate catalyst, Revivification of. H. Greenberg. 2,426,678; Sept. 2.
- Phosphor, Alkaline earth. H. G. Jenkins, A. H. McKeag, and P. W. Ranby. 2,427,728; Sept. 23.
- Phosphor material to a support member, Applying. H. W. Leverenz. 2,421,208; May 27.
- Phosphoric acid composition, Making a. R. Lee. 2,424,992; Aug. 5.
- Phosphoric acid, Preparation of pure. F. S. Low. 2,415,797; Feb. 11.
- Photocell modulator. W. P. Asten. 2,430,095; Nov. 4.
- Photocell multiplier apparatus. H. W. G. Salinger. 2,431,510; Nov. 25.
- Photochemical chlorination of polyvinyl chloride. J. Chapman and J. W. Crawford. 2,426,080; Aug. 19.
- Photoelastic blast pressure gauge. H. B. Maris. 2,415,436; Feb. 11.
- Photoelectric apparatus. P. H. Craig and L. C. Herman. 2,414,636; Jan. 21.
- Photoelectric apparatus for measuring the diameter of an inflated flexible casing. S. C. Hurley, Jr. 2,433,557; Dec. 30.
- Photoelectric apparatus for scanning rounds. S. C. Hurley, Jr. 2,415,176; Feb. 4.
- Photoelectric article engaging apparatus. W. A. Gleseke. 2,433,559; Dec. 30.
- Photoelectric cell. E. Lidow. 2,414,233; Jan. 14.
- Photoelectric cell. H. T. Wrobel. 2,416,604; Feb. 25.
- Photoelectric cells of the dry disk type, Manufacturing. A. H. Lamb. 2,433,566; Dec. 30.
- Photoelectric control. W. F. Wolfner, II. 2,429,500; Oct. 21.
- Photoelectric control apparatus for diaphragms. H. Belar and E. C. Guedon. 2,421,476; June 3.
- Photoelectric control for game devices. J. A. MacLagan and T. A. Walsh. 2,425,255; Aug. 5.
- Photoelectric control for game devices. J. A. MacLagan and T. A. Walsh. 2,425,258; Aug. 5.
- Photoelectric discharge device. W. L. Jones, Jr. 2,422,970; June 24.
- Photoelectric drift indicator. H. Konet. 2,425,541; Aug. 12.



- Photoelectric exposures and contrast controls for enlargers. A. Simmon and L. L. Weisglass. 2,430,253; Nov. 4.
- Photoelectric gauging of flexible tubular casings. S. C. Hurley, Jr. 2,415,175; Feb. 4.
- Photoelectric inspection circuit. W. A. Gieseke. 2,415,167; Feb. 4.
- Photoelectric inspection device. S. C. Hurley, Jr. 2,415,179; Feb. 4.
- Photoelectric inspection of rounds. S. C. Hurley, Jr. 2,415,178; Feb. 4.
- Photoelectric line-following apparatus. G. T. Hart, Jr. 2,419,641; Apr. 29.
- Photoelectric photometer. W. Liben and F. H. MacKenzie. 2,428,806; Oct. 14.
- Photoelectric reproducer for plural consecutive sound tracks. J. Bolsey. 2,428,778; Oct. 14.
- Photoelectric scanning device. M. Morrison. 2,415,702; Feb. 11.
- Photoelectric sizing mechanism. S. C. Hurley, Jr. 2,415,174; Feb. 4.
- Photoelectric system and apparatus. J. R. Shonnard. 2,430,146; Nov. 4.
- Photoelectrically controlled light polarizing element. S. C. Hurley, Jr. 2,423,321; July 1.
- Photoelectromotive force cell of the silicon-silicon oxide type and making the same. G. K. Teal. 2,423,125; July 1.
- Photoelectron multiplier. A. F. Roman. 2,424,850; July 29.
- Photoflash lamp. H. D. Blake and W. J. Geiger. 2,431,162; Nov. 18.
- Photographer's film numbering box. J. Sabin and F. R. Peterson. 2,420,726; May 20.
- Photographic apparatus. R. Borden. 2,414,083; Jan. 14.
- Photographic apparatus. H. D. Simons. 2,428,818; Oct. 14.
- Photographic apparatus. A. J. Timoney. 2,428,399; Oct. 7.
- Photographic apparatus for recording interference phenomena. J. B. Saunders. 2,425,758; Aug. 19.
- Photographic attachment for firearms. C. O. Palmer. 2,416,769; Mar. 4.
- Photographic code recording and reproducing device. J. M. Petty and T. M. Morse. 2,425,122; Aug. 5.
- Photographic developer. V. Tulagin. 2,414,491; Jan. 21.
- Photographic device, Medico-surgical. G. B. Pollock. 2,431,825; Dec. 2.
- Photographic elements bearing silver halide emulsion layer and adjacent light insensitive colloid layer containing silver derivatives of azoles. W. H. Dimsdale and R. R. Robinson. 2,432,864; Dec. 16.
- Photographic elements composed of orientable vinyl fluoride polymers. P. R. Austin. 2,423,749; July 8.
- Photographic elements containing polyamide dye intermediate layers. D. M. McQueen. 2,423,460; July 8.
- Photographic elements having light-sensitive silver halide layers containing iron, cobalt, and nickel derivatives of mercapto tetrazoles, triazoles, and diazoles. W. H. Dimsdale and R. R. Robinson. 2,432,865; Dec. 16.
- Photographic elements including hydrophilic color formers. D. W. Woodward. 2,415,382; Feb. 4.
- Photographic elements, Multilayer. O. W. Murray. 2,423,465; July 8.
- Photographic emulsions containing pseudocyanine dyes and 9-methyl thiacyanocyanine dyes. E. E. Nicholson and R. B. Collins. 2,430,072; Nov. 4.
- Photographic emulsions containing sensitizing dyes. A. W. Anish and L. C. Hensley. 2,423,217; July 1.
- Photographic emulsions, Preparing polyamide. W. W. Watkins. 2,420,455; May 13.
- Photographic emulsions, Sensitized. E. B. Knott. 2,423,710; July 8.
- Photographic emulsions sensitized by polyalkylene glycols, Silver halide. R. K. Blake, W. A. Stanton, and F. Schulze. 2,423,549; July 8.
- Photographic emulsions sensitized with combination of merocyanine dye and a monomethinecyanine; a trimethinecyanine, a dimethinecyanine or a styryl dye. B. H. Carroll, L. G. S. Brooker, and J. Spence. 2,430,553; Nov. 11.
- Photographic enlargement printing frame. A. Raiff, S. S. and V. G. Robbins, and I. S. Rosen. 2,432,040; Dec. 2.
- Photographic enlarger. A. Simmon and L. L. Weisglass. 2,415,568; Feb. 11.
- Photographic film rack. H. L. Braddy. 2,428,511; Oct. 7.
- Photographic images, Producing colored. H. T. Neumann. 2,417,514; Mar. 18.
- Photographic images, Production of three-color subtractive. J. H. Coote. 2,415,626; Feb. 11.
- Photographic justifying machine. C. C. Smith. 2,421,656; June 3.
- Photographic material and producing same, Laminated. M. R. Hutchison. 2,418,303; Apr. 1.
- Photographic overlay chart, Method of and apparatus for preparing. W. P. Foster. 2,425,929; Aug. 19.
- Photographic paper, Making. E. Jahoda. 2,433,515; Dec. 30.
- Photographic plate holder. D. C. Harvey. 2,432,414; Dec. 9.
- Photographic record and forming same. G. L. Dimmick. 2,431,923; Dec. 2.
- Photographic reproduction process and apparatus. V. C. Ernst. 2,414,938; Jan. 28.
- Photographic retouching device. H. L. R. Adams. 2,422,174; June 17.
- Photographic silver-halide emulsions, Sensitizing. A. W. Anish. 2,415,927; Feb. 18.
- Photographic sound film noise reduction system. A. Poulsen and C. G. Petersen. 2,414,666; Jan. 21.
- Photographic support, Airtspaced. C. Q. Glassey. 2,422,008; June 10.
- Photography in additive color by the controlled utilization of chromatic aberrations in lenses. S. B. Grimson. 2,418,345; Apr. 1.
- Photography system. B. H. Wildman. 2,419,978; May 6.
- Photometer, Screen brightness measurement. F. K. McCune. 2,431,575; Nov. 25.
- Photometric apparatus giving readings invariant with azimuth on polarizing samples. E. I. Stearns, Jr., and G. L. Buc. 2,430,833-4; Nov. 11.
- Photopolymerization. R. F. Hayes. 2,433,047; Dec. 26.
- Photo printer, Automatic. E. H. Grogan. 2,426,092; Aug. 19.
- Photoprinting machine. P. B. Streich. 2,431,520; Nov. 25.
- Photoprinting materials, Stabilized diazotype. M. K. Reichel. 2,416,773; Mar. 4.
- Photosensitive material, Adhesive. M. R. Hutchison. 2,418,304; Apr. 1.
- Phototube and manufacture. R. B. Janes. 2,431,402; Nov. 25.
- Phototube, Multicathode. R. W. Engstrom. 2,421,192; May 27.
- Phototube multiplier. C. C. Larson. 2,433,700; Dec. 30.
- Phototube multiplier. A. F. Roman. 2,429,772; Oct. 28.
- Phototube multiplier. L. G. Wolfgang. 2,433,724; Dec. 30.
- Photronic cell circuit. A. Wolf and G. Herzog. 2,431,899; Dec. 2.
- Phthalate-containing compositions and preparing same, Complex lead. A. Stewart, A. R. Pitrot, and L. M. Kebrich. 2,424,515; July 22.
- Phthalic acid, Production of. W. F. Rollman. 2,416,350; Feb. 25.
- Phthalic anhydride, Chlorination of. P. W. Blume, G. A. Thomas, and G. Baillio. 2,429,985; Nov. 4.
- Phthalocyanine derivatives. N. H. Haddock, W. O. Jones, A. Parkinson, and G. A. Rowe. 2,430,052; Nov. 4.
- Phthalocyanines containing —SH groups, Making. N. H. Haddock and C. Wood. 2,416,386; Feb. 25.
- Physical measurements in boreholes, Method and apparatus for taking. S. Krasnow. 2,421,423; June 3.
- Physiologically active principles, Extracting. M. R. Thompson. 2,432,217; Dec. 9.
- Physiotherapy cabinet. R. E. Lind. 2,420,254; May 6.
- Piano. C. F. Stein. 2,431,350; Nov. 25.
- Piano action. A. P. Brown. 2,421,239; May 27.
- Piano-action. A. P. Brown. 2,424,017-18; July 15.
- Piano action. A. P. Brown. 2,425,989; Aug. 19.
- Piano action. F. C. Socin. 2,417,666; Mar. 18.
- Piano action. F. C. Socin. 2,419,174; Apr. 15.
- Piano action. R. W. E. Sperry. 2,418,733; Apr. 8.
- Picker. S. W. La Rocque. 2,432,995; Dec. 23.
- Picker, Corn. S. T. Ekholm. 2,414,512; Jan. 21.
- Picker, Fruit. F. Marvin. 2,415,648; Feb. 11.
- Picker mechanism. S. T. Carter. 2,414,019; Jan. 7.
- Picker spindle lubricator. R. S. Schedin. 2,432,812; Dec. 16.
- Picker stick check for looms. H. Hoerber. 2,423,887; July 15.
- Picker stick check straps. H. J. Johnson. 2,426,353; Aug. 26.
- Picking apparatus, Date. A. E. Swindler. 2,428,184; Sept. 30.
- Picking mechanism for looms. C. Saurer. 2,427,625; Sept. 16.
- Picking mechanism of looms for weaving. T. Hindle. 2,431,642; Nov. 25.
- Pickle liquor, Treatment of. J. M. Kahn and E. Kominek, Jr. 2,433,458; Dec. 30.
- Pickling and cleaning device for metal, Continuous. F. J. Wood. 2,418,386; Apr. 1.
- Pickling and of recovering pickling agent. A. W. Hixson and R. Miller. 2,423,385; July 1.
- Pickling process. J. W. Hudson. 2,428,221; Sept. 30.
- Pickoff, Transformer. J. C. Wilson. 2,419,979; May 6.
- Pick-up conveyor. U. F. Luebben. 2,414,823; Jan. 28.
- Pickup device of sound-reproducing machines. J.-J. Bessire. 2,418,617; Apr. 8.
- Pickup device, Phonograph. B. Roberts. 2,423,662; July 8.
- Pickup, Electrostatic. C. M. Sinnett. 2,423,208; July 1.
- Pickup head. D. J. Baker. 2,422,817; June 24.
- Picture display frame. K. Aranoff. 2,428,772; Oct. 14.
- Picture frame. J. B. English. 2,424,686; July 29.
- Picture frame. O. W. Jolly. 2,419,187; Apr. 15.
- Picture frame. R. J. Prost. 2,428,242; Sept. 30.
- Picture projecting apparatus and projection system therefor. B. Stechbart and P. C. Foote. 2,424,339; July 22.
- Pie and similar food article. L. J. Harriss. 2,430,566; Nov. 11.
- Pie cutter. C. L. Booker. 2,424,015; July 15.



- Pier construction. R. W. Walton. 2,426,477; Aug. 26.  
Piezo crystal unit assembly. G. S. Wachtman. 2,418,491; Apr. 8.  
Piezo-electric crystal holder. R. O'Larte and G. Vollet. 2,432,790; Dec. 16.  
Piezoelectric crystal mounting. W. P. Mason. 2,417,426; Mar. 18.  
Piezoelectric crystal mounting. C. G. Robb and S. E. Warner. 2,416,067; Feb. 18.  
Piezoelectric crystal, Soldering a terminal to a. L. J. Sivan. 2,426,650; Sept. 2.  
Piezoelectric crystal units, Means for fabricating. A. L. W. Williams. 2,414,574; Jan. 21.  
Piezoelectric device. J. E. Shomer. 2,414,489; Jan. 21.  
Piezoelectric device. R. W. Tibbetts. 2,416,887; Mar. 4.  
Piezoelectric device. R. W. Tibbetts. 2,421,586; June 3.  
Piezoelectric device and manufacture. H. M. Bach. 2,423,061; June 24.  
Piezoelectric plastic material and making same. C. Chlowsky. 2,420,864; May 20.  
Piezoelectric resonators, Preparation of. R. H. Broseker and J. L. Hessenauer. 2,414,088; Jan. 14.  
Piezoelectric vibrator. W. L. Bond and W. P. Mason. 2,427,348; Sept. 16.  
Pigment and other materials to paper, Method of and apparatus for applying. G. D. Muggleton. 2,426,043; Aug. 19.  
Pigment, Chromite ore. C. K. Sloan. 2,419,094; Apr. 15.  
Pigment, Light-stable calcium chromate. C. K. Sloan. 2,430,589; Nov. 11.  
Pigment, Metal protective. G. Grimm. 2,419,017; Apr. 15.  
Pigment preparations. V. C. Vesce. 2,432,461; Dec. 9.  
Pigment process, High dry hiding. O. C. Klein. 2,416,325; Feb. 25.  
Pigments, Making metallic. G. M. Babcock. 2,432,465; Dec. 9.  
Pigments, Separation of vegetable. T. B. Mann. 2,428,740; Oct. 7.  
Pile construction, Spliced. R. R. Kohn. 2,430,879; Nov. 18.  
Pile driver, Portable. W. R. Fairchild. 2,423,301; July 1.  
Pile fabric. E. J. Dacey. 2,430,559; Nov. 11.  
Pile fabric loom and pile wire therefor. G. E. Schulz and H. H. Fond. 2,414,064; Jan. 7.  
Pile fabrics by suction, Stencilling. H. L. Shuttleworth, G. J. Underwood, and L. R. Jones. 2,419,694; Apr. 29.  
Pile fabrics, Mothproofing. J. N. Dow. 2,417,916; Mar. 25.  
Pill dispenser. E. M. Lauer. 2,431,490; Nov. 25.  
Pillow or cushion accessory. S. B. Hirsh and V. Lobel. 2,413,828; Jan. 7.  
Pilot bearing. J. G. Jergens. 2,429,516; Oct. 21.  
Pilot, Water pump seal surface grinding. S. R. Thompson. 2,418,206; Apr. 1.  
Pin: See—  
Bob pin. Safety pin.  
Bobby pin. Temporary holding pin.  
Combination collar pin. Tie pin.  
Removable guide pin.  
Pin and spindle arrangement for steerable wheels, King. F. R. McFarland. 2,417,316; Mar. 11.  
Pinball device, Miniature. A. Shulkin. 2,423,409; July 1.  
Pin for railway cars, Locking center. S. B. Haseltine. 2,427,404; Sept. 16.  
Pin for toy parts, Coupling. H. C. Tooms. 2,426,326; Aug. 26.  
Pin mechanism, Register. R. Jones. 2,418,943; Apr. 15.  
Pin receptacle. G. I. Swift. 2,413,800; Jan. 7.  
Pin setting machine. L. E. Blum, Jr. 2,427,705; Sept. 23.  
Pin setting tool. R. W. Rayburn. 2,430,532; Nov. 11.  
Pin supporting means for firearms, Firing. C. C. Loomis. 2,425,434; Aug. 12.  
Pinacols, Electrolytic production of. T. S. Chambers and O. C. Slotterbeck. 2,422,468; June 17.  
Pineapple plants, Culture of. F. P. Mehrlich. 2,428,335; Sept. 30.  
Pinene resin, Hydrogenating. W. H. Carmody. 2,416,901-2; Mar. 4.  
Pinning machine, Umbrella ferrule. F. and T. F. De Bella. 2,433,204; Dec. 23.  
Pintle. W. B. Johnson. 2,431,694; Dec. 2.  
Pintle hook. H. Ketel. 2,429,761; Oct. 28.  
Pipe: See—  
Bubble pipe. Nesting pipe.  
Cigarette smoking pipe. Self-adjusting sump pipe.  
Flexible pipe. Smoker's pipe.  
Insulated pipe. Smoking pipe.  
Musical and animated toy pipe. Tobacco pipe.  
Pipe. J. Ferla. 2,416,618; Feb. 25.  
Pipe anchor and branch pipe tee, Combination. M. S. Johnson. 2,425,189; Aug. 5.  
Pipe attachment, Exhaust. W. C. Curphy. 2,420,700; May 20.  
Pipe bowl cleaner. O. Halverson. 2,427,856; Sept. 23.  
Pipe clamp. J. J. Tipton. 2,433,172; Dec. 23.  
Pipe cleaner. F. W. Engberg. 2,433,105; Dec. 23.  
Pipe cleaner. W. E. Heron. 2,418,711; Apr. 8.  
Pipe connection, Lockable. T. A. St. Clair and W. R. Eddy. 2,417,955; Mar. 25.  
Pipe coupling. C. Adams, Jr. 2,424,542; July 29.  
Pipe coupling. A. G. Cole. 2,428,652; Oct. 7.  
Pipe coupling. W. D. Crater. 2,424,436; July 22.  
Pipe coupling. G. J. Henry. 2,419,642; Apr. 29.  
Pipe coupling. J. Mercier. 2,413,840; Jan. 7.  
Pipe coupling. P. E. Thomas. 2,416,967; Mar. 4.  
Pipe coupling. P. D. Wurzbarger. 2,414,184; Jan. 14.  
Pipe coupling. P. D. Wurzbarger. 2,414,995; Jan. 23.  
Pipe coupling. P. D. Wurzbarger. 2,417,536; Mar. 18.  
Pipe cutting device. F. H. Walden. 2,432,703; Dec. 16.  
Pipe cutting tool. J. B. Gill and L. C. Schomer. 2,433,606; Dec. 30.  
Pipe end forming machine. E. S. Christensen. 2,422,338; June 17.  
Pipe end shaper. A. L. Forbes, Jr. 2,429,052; Oct. 14.  
Pipe extractor. C. L. O'Quinn and J. H. Hayes. 2,433,477; Dec. 30.  
Pipe fitting. P. D. Merrill. 2,427,994; Sept. 23.  
Pipe fitting. E. A. Mosca. 2,425,817; Aug. 19.  
Pipe fitting. C. D. Stewart. 2,422,597; June 17.  
Pipe grip, Inside-outside. W. T. Damrell. 2,418,626; Apr. 8.  
Pipe handling apparatus. C. J. McCoy. 2,425,292; Aug. 12.  
Pipe hanger. C. O. Larson. 2,423,455; July 8.  
Pipe joint. S. J. Everett. 2,423,762; July 8.  
Pipe joint. F. R. Kelly. 2,420,139; May 6.  
Pipe joint. J. P. Moran and B. F. Slingluff. 2,429,765; Oct. 28.  
Pipe joint. C. O. Morris. 2,433,289; Dec. 23.  
Pipe joint. A. E. Osborn. 2,420,838; May 20.  
Pipe lines, Method and apparatus for salvaging. A. M. Hill, E. J. Miller, and E. G. Baker. 2,425,373; Aug. 12.  
Pipe, Making plastic-metal. C. G. Munger. 2,417,881; Mar. 25.  
Pipe, Manufacture of cementitious. E. W. Rembert. 2,430,411; Nov. 4.  
Pipe or hose coupling. C. R. Raffield. 2,419,916; Apr. 29.  
Pipe puller. N. T. Breau. 2,427,438; Sept. 16.  
Pipe tap. C. R. Edwards. 2,427,524; Sept. 16.  
Piperazine, Preparation of. H. F. Pfann. 2,427,473; Sept. 16.  
Piperazines, Unsymmetrically substituted. J. S. Buck and R. Baltzy. 2,415,785-7; Feb. 11.  
Pipette, Safety. E. L. Brady and L. E. Glendenin. 2,423,173; July 1.  
Pipette washer. J. H. Brewer. 2,418,751; Apr. 8.  
Piping, Plastic. C. Gould. 2,426,769; Sept. 2.  
Pistol trainer. L. De Florez. 2,418,822; Apr. 15.  
Pistol, Water. J. W. Arpin. 2,423,220; July 1.  
Piston. E. M. Gates. 2,426,732; Sept. 2.  
Piston. E. B. Graham. 2,420,474; May 13.  
Piston. S. E. Jessup. 2,415,594; Feb. 11.  
Piston. J. E. Johansson. 2,429,956; Oct. 28.  
Piston and cylinder construction. W. M. Anderson. 2,419,192; Apr. 22.  
Piston and cylinder construction. H. F. Schmidt. 2,417,887; Mar. 25.  
Piston and ring groove lining therefor. J. H. Ballard. 2,415,984; Feb. 18.  
Piston and rod connection. G. E. Mawhirter. 2,427,061; Sept. 9.  
Piston and sealing ring therefor. M. Mayes. 2,428,031; Sept. 30.  
Piston construction. L. E. Leupe. 2,416,487; Feb. 25.  
Piston construction. L. E. Neeley. 2,428,983; Oct. 14.  
Piston construction, Engine. A. Kalitinsky and W. A. Ledwith. 2,426,310; Aug. 26.  
Piston cooling in free-piston units. W. A. Ledwith. 2,425,544; Aug. 12.  
Piston device. C. L. Wallace. 2,426,073; Aug. 19.  
Piston, Electric. C. H. Morrow. 2,422,495; June 17.  
Piston expander. P. F. Danielson. 2,432,728; Dec. 16.  
Piston expander. M. E. Sipe. 2,482,687; Dec. 16.  
Piston expander. W. J. Six. 2,417,665; Mar. 18.  
Piston for wave guides, Shorting. E. G. Linder. 2,428,287; Sept. 30.  
Piston, Full floating. J. G. Wantz. 2,424,868; July 29.  
Piston oil ring. G. M. M. Grant. 2,428,491; Oct. 7.  
Piston packing. W. N. Noviss. 2,431,957; Dec. 2.  
Piston packing ring assembly. W. L. Tatham. 2,420,690; May 20.  
Piston ring. P. M. Adamson. 2,418,243; Apr. 1.  
Piston ring. G. M. M. Grant. 2,423,017; June 24.  
Piston ring. J. T. Overstreet. 2,417,884; Mar. 25.  
Piston ring. N. Walnwright and A. J. Mummert. 2,427,333; Sept. 9.  
Piston ring. V. F. Zahodiakin. 2,421,175; May 27.  
Piston ring. V. F. Zahodiakin. 2,432,602; Dec. 16.  
Piston ring and piston and piston ring assembly. H. P. Phillips. 2,428,177; Sept. 30.  
Piston ring assembly. A. P. Fall. 2,424,881; July 29.  
Piston, Ringless self-expanding. G. P. Floyd. 2,419,714; Apr. 29.  
Piston rings, Making. A. E. Melrose. 2,422,431; June 17.  
Piston rings, Manufacturing. H. P. Phillips. 2,417,610; Mar. 18.  
Piston sealing means. T. A. Bowers. 2,414,013; Jan. 7.  
Piston skirt expander. M. E. Sipe. 2,418,053; Mar. 25.  
Piston, Slush pump. A. S. Volpin. 2,431,653; Nov. 25.  
Pistons, Producing. L. B. Boyd. 2,413,947; Jan. 7.  
Pit and operating the same, Soaking. R. R. Snow. 2,414,069; Jan. 7.



- Pitch control for aircraft sustaining rotors. H. S. Campbell. 2,428,200; Sept. 30.
- Pitch propeller arrangement, Variable. A. G. Forsyth. 2,426,007; Aug. 19.
- Pitchometer attachment. W. E. Little and W. S. McKinstry. 2,421,754; June 10.
- Pitman. A. E. Roxberg. 2,428,743; Oct. 7.
- Pitting machine, Fruit. B. C. Coons. 2,415,418; Feb. 11.
- Pivotal joint. R. W. Brown. 2,424,914; July 29.
- Pivotal supporting means. J. L. Fouch. 2,414,034; Jan. 7.
- Pivotaly mounted safety hook. N. L. Dahlander. 2,418,111; Apr. 1.
- Pivoted bender with pivoted work engaging dog. A. T. O'Neil. 2,414,387; Jan. 14.
- Pivoted link chain. L. E. Simmons. 2,427,929; Sept. 23.
- Pivoted means for directing drying gas into the interior of hollow articles. H. D. Lathrop. 2,416,759; Mar. 4.
- Pivoted member. W. H. Baselt. 2,422,521; June 17.
- Pivots for rotatable bodies, Sealing adjustable. N. A. H. Nilsson and A. H. G. Dahlbom. 2,430,136; Nov. 4.
- Plain bearing lubricator. E. V. Morley. 2,418,313; Apr. 1.
- Plain bearing lubricator. E. V. Morley. 2,422,741; June 24.
- Plane and system, Cargo carrier. R. M. Thomson. 2,415,975; Feb. 18.
- Plane, Preflight training. L. W. Hardell. 2,428,706; Oct. 7.
- Planer, Portable. W. S. Cooper. 2,431,230; Nov. 18.
- Planetary piston pump. J. B. Lawton. 2,423,507; July 8.
- Planetary reverse gear. P. Orr. 2,414,832; Jan. 28.
- Plank, Fabricated wood staging. P. B. Attwell. 2,432,979; Dec. 23.
- Plant extracts and producing same. O. Givold. 2,421,118; May 27.
- Plant extracts, Producing. O. Givold. 2,421,117; May 27.
- Plant flesh and the recovery of pectic products therefrom, Treatment of. T. P. Hoar and E. L. James. 2,416,176; Feb. 18.
- Plant for melting ice and preventing ice formation. B. O. E. Persson and E. Forslind. 2,417,519; Mar. 18.
- Plant having a reciprocating compressor, Gas-compressing. E. S. L. Beale. 2,433,328; Dec. 30.
- Plant, Multiple engine power. H. T. Woolson and M. L. Carpentier. 2,419,305; Apr. 22.
- Planter, Barrel. H. C. Otte. 2,420,092; May 6.
- Planter, Hand operated potato seed. E. S. Welte. 2,421,821; June 10.
- Planter runner. J. H. McIntyre. 2,416,189; Feb. 18.
- Planter, Rotary. M. J. U. Coetzee. 2,424,742; July 29.
- Plaster cast cutter. H. H. Stryker. 2,427,580; Sept. 16.
- Plastic and production thereof, Heat-resisting laminated. P. P. Ryan. 2,415,763; Feb. 11.
- Plastic article. W. J. Gollightly and F. A. Gardina. 2,427,906; Sept. 23.
- Plastic article. A. B. McGinnis. 2,417,510; Mar. 18.
- Plastic articles, Making. B. Bogoslowsky. 2,418,155; Apr. 1.
- Plastic coating from a metal article, Removing. V. J. Canziani and F. W. Stellwagen. 2,417,468; Mar. 18.
- Plastic composition. J. N. Borglin and A. L. Rummelsburg. 2,429,603; Oct. 28.
- Plastic composition and making. O. M. Arnold. 2,433,727; Dec. 30.
- Plastic composition, Hardenable. M. Skolnik. 2,418,795; Apr. 8.
- Plastic compositions containing a fatty acid ester of styrene glycol. C. A. Hochwalt and C. A. Thomas. 2,430,424; Nov. 4.
- Plastic compositions, Finishing. R. H. Hunt, Jr. 2,422,017; June 10.
- Plastic compositions made with trimethylol nitromethane. W. W. Trowell. 2,426,128; Aug. 19.
- Plastic crownler. J. Kantor. 2,432,163; Dec. 9.
- Plastic from redwood pulp and furfuryl alcohol-formaldehyde resin, Thermosetting. E. Reineck and I. R. Dunlap. 2,429,329; Oct. 21.
- Plastic machine. A. K. F. Koch. 2,426,457; Aug. 26.
- Plastic masses and making the same. H. I. Gilbert. 2,424,026; July 15.
- Plastic material, Curing sheeted. F. A. Lang. 2,426,775; Sept. 2.
- Plastic material, Method of and apparatus for molding. W. H. Bagley, Jr. 2,422,999; June 24.
- Plastic material, Method of and apparatus for shearing strips of. V. A. Rayburn. 2,429,945; Oct. 28.
- Plastic molding machine. W. S. Renier. 2,416,348; Feb. 25.
- Plastic objective. F. E. Altman and R. Wyland. 2,430,550; Nov. 11.
- Plastic reaction products of reactive methylene compounds with wax-substituted aromatic compounds. O. M. Reiff. 2,416,218; Feb. 18.
- Plastic reaction products of sulfur monochloride with wax-substituted aromatic compounds. O. M. Reiff. 2,416,219; Feb. 18.
- Plastic, Reinforced. H. W. Collins. 2,428,654; Oct. 7.
- Plastic refractory. H. H. Greger and J. J. Reimer. 2,425,152; Aug. 5.
- Plastic ring and making the same. G. J. Evalt. 2,432,870; Dec. 16.
- Plastic sheets, Centrifugally forming asymmetric. R. S. Ames. 2,431,102; Nov. 18.
- Plastic sheets, Laminating. L. Paggi. 2,417,837; Mar. 25.
- Plastic valve. V. W. Eckel. 2,417,242; Mar. 11.
- Plasticizer and softener for perbunan and perbunan type rubbers. H. B. Kellog and G. E. Serniuk. 2,415,356; Feb. 4.
- Plasticizers. W. P. Bitler and L. Nicholl. 2,433,645; Dec. 30.
- Plastics, Casting hot. L. E. Champer. 2,428,697; Oct. 7.
- Plate and the like, Method and apparatus for bending. E. H. Millard and F. R. Wilson. 2,419,724; Apr. 29.
- Plate component for propeller blades. J. M. McKee. 2,431,411; Nov. 25.
- Plate, Electric hot. L. H. Snyder. 2,430,194; Nov. 4.
- Plate for dimension gaging and assorting machines, Adjustable inspector. J. A. Cook. 2,422,291; June 17.
- Plate for folding machines, Fold. R. E. Olson. 2,414,386; Jan. 14.
- Plate for frogs and crossings, Base. T. W. Stedman. 2,424,916; July 29.
- Plate for railroad cars, Threshold. E. G. Doke. 2,429,182; Oct. 14.
- Plate for worn railway ties, Expansion repair. J. H. Dooling. 2,421,602; June 3.
- Plate, Glass surface. W. J. Dykoski. 2,420,637; May 13.
- Plate, Gravure. O. R. Schultz, R. F. Nestle, and M. J. Romano. 2,431,710; Dec. 2.
- Plate, Heel lift attachment. J. J. Roman. 2,428,245; Sept. 30.
- Plate holder. C. Richards. 2,422,261; June 17.
- Plateholder, Photographic. A. E. Little. 2,433,613; Dec. 30.
- Plateholder, Quartz oscillator. L. R. Morse. 2,425,481; Aug. 12.
- Plate, Key holder. I. Geller. 2,421,492; June 3.
- Plate of looms, Race. W. H. Baker. 2,417,285; Mar. 11.
- Plate printing, Method of and apparatus for intaglio. F. Fernandez. 2,427,556; Sept. 16.
- Plate, Tread. R. A. Kropp. 2,422,023; June 10.
- Plate with spikes, Railroad. H. L. Tilly. 2,417,385; Mar. 11.
- Plate, Wood pulp screen. S. T. Orton, Jr. 2,419,155; Apr. 15.
- Plated article and manufacturing same. E. T. Rahm. 2,424,583; July 29.
- Platen for typewriting machines, Noiseless. F. U. Conard. 2,418,698; Apr. 8.
- Plates, Production of electrical condenser. E. R. Box. 2,429,088-9; Oct. 14.
- Plating, Indium. C. F. Smart. 2,423,624; July 8.
- Plating, Silver. C. J. Wernlund and J. R. Macon. 2,429,970; Oct. 28.
- Platform cover conforming machine. W. E. Carr. 2,429,306; Oct. 21.
- Platform, Ladder. E. J. Picone. 2,419,727; Apr. 29.
- Platform, Material carrying. D. D. Adams and K. Rollius. 2,432,849; Dec. 16.
- Platform, Portable. F. Lanchester. 2,430,179; Nov. 4.
- Platinum group metals and gold, Concentrating. W. K. Sproule and G. A. Harcourt. 2,425,760; Aug. 19.
- Pleats, Forming. A. M. Hess. 2,422,963; June 24.
- Pliable bottle carrier. A. Houle. 2,427,105; Sept. 9.
- Pliers, Tamping. T. A. Heermans. 2,424,752; July 29.
- Pliers, Wire-cutting. C. Swartz. 2,431,970; Dec. 2.
- Plotting board. P. G. Edwards. 2,419,203; Apr. 22.
- Plotting device. M. K. Caston. 2,415,277; Feb. 4.
- Plotting instrument. F. M. Rushmore. 2,419,597; Apr. 29.
- Plotting instrument. G. C. Stewart. 2,424,065; July 15.
- Plough. L. J. E. Capon and J. Carne. 2,426,548; Aug. 26.
- Plow. W. E. Emerick. 2,424,155; July 15.
- Plow. C. H. Gemberling. 2,428,871; Oct. 14.
- Plow. J. R. Orelind and J. Morkoski. 2,433,148; Dec. 23.
- Plow and hitch, Tractor. R. H. Miller. 2,416,194; Feb. 18.
- Plow bottom with detachable plow point. H. N. Baker. 2,424,136; July 15.
- Plow, Cultivator. C. Petersen. 2,420,973; May 20.
- Plow, Irrigation ditch. H. M. Hall. 2,424,820; July 29.
- Plow, Lever. J. Williams. 2,428,188; Sept. 30.
- Plow, Peanut. C. F. Douglass. 2,419,633; Apr. 29.
- Plow, Pipe-line. B. C. Wright. 2,414,994; Jan. 28.
- Plow, Pulverizing disc. J. O. Savage. 2,429,298; Oct. 21.
- Plow, Ridge forming and leveling disc. R. and A. Olson. 2,431,959; Dec. 2.
- Plow, Snow. N. B. Frame and J. W. Kelm. 2,420,591; May 13.
- Plow, Snow. J. Mader. 2,432,780; Dec. 16.
- Plow, Snow. H. H. Maxim. 2,431,410; Nov. 25.
- Plow, Soil displacement. W. E. Campbell. 2,431,731; Dec. 2.
- Plow, Tractor drawn. H. Hurlmann. 2,429,463; Oct. 21.
- Plow, Two-way. H. Rogers and W. F. Mellen. 2,424,192; July 15.



- Plow, Vineyard. E. G. Briscoe. 2,433,422; Dec. 30.
- Plug: See—
- Boiler plug.
  - Drain plug.
  - Electric plug.
  - Electrical connection plug.
  - Electrical connector plug.
  - Electrical coupling plug.
  - Electrical plug.
  - Fuse containing electric plug.
  - Fuse plug.
  - Indicator fuse plug.
  - Overload controlling plug.
  - Safety fuse outlet plug.
  - Spark plug.
  - Stage plug.
  - Vent plug.
- Plug and receiving member or receptacle therefor, Electrical connecting. A. H. Gorey. 2,428,214; Sept. 30.
- Plug and switch box. D. Conlan. 2,420,865; May 20.
- Plug coupling apparatus. O. S. Field. 2,425,608; Aug. 12.
- Plug for boilers, Fusible. L. C. Clair. 2,431,110; Nov. 18.
- Plug for electric motors, Breather. D. H. Manney. Re. 22,890; June 17.
- Plug for guns, Muzzle. H. M. Braucher. 2,414,441; Jan. 21.
- Plug for receptacles, Foldable blank cellular spacer. A. P. D. Belanger. 2,432,501; Dec. 16.
- Plug for sand boxes or containers, Blowhole. A. H. Peterson. 2,423,341; July 1.
- Plug guide plate, Electric. E. H. Knausz. 2,430,514; Nov. 11.
- Plug valve. L. S. Hamer. 2,421,879; June 10.
- Plug valve. O. Jacobsen. 2,419,647; Apr. 29.
- Plug valve. F. E. Shelly. 2,421,969; June 10.
- Plumb line reel. E. H. Galford. 2,421,256; May 27.
- Plumber's tool. P. Rosa. 2,413,997; Jan. 7.
- Plunger for baling presses. M. E. McClellan and J. R. West. 2,428,672; Oct. 7.
- Plunger for electric discharge devices with liquid cathode, Ignition. E. B. Steinberg. 2,430,653; Nov. 11.
- Plunger for pinball machines. N. R. Glass. 2,419,770; Apr. 29.
- Plunger type electrode holder. E. H. Cushman. 2,428,409; Oct. 7.
- Plunger type voltage indicator. E. J. Radwinski. 2,426,050; Aug. 19.
- Plural pole number induction motor. J. D. Lewis. 2,419,268; Apr. 22.
- Plural way valve. J. R. Dunnihoo. 2,420,588; May 13.
- Plywood assemblies, Making laminated punched. F. Raffles. 2,417,175; Mar. 11.
- Plywood products, Production of. H. W. McClary. 2,418,233; Apr. 1.
- Plywood, Reinforced. H. W. Collins. 2,428,325; Sept. 30.
- Pneumatic control. E. V. Stone. 2,420,269; May 6.
- Pneumatic conveyer. J. L. Higgins. 2,414,150; Jan. 14.
- Pneumatic mattress. M. R. Stein. 2,415,150; Feb. 4.
- Pneumatic tool. L. Francis. 2,432,877; Dec. 16.
- Poaching, boiling, and frying device, Combination egg. S. Caplan. 2,419,674; Apr. 29.
- Pocketbook. L. M. Greenway. 2,425,150; Aug. 5.
- Pocketbook and accessory case, Combined. F. O. Merz. 2,419,846; Apr. 29.
- Pocketbook and card case, Combination. H. M. Herbener. 2,426,504; Aug. 26.
- Pocket case. M. Kaplan. 2,425,540; Aug. 12.
- Pocket check protector. W. A. Wurster. 2,433,502; Dec. 30.
- Pocket clipping key holder. H. Gamache. 2,416,477; Feb. 25.
- Pocket closing device. E. L. Dickey. 2,427,553; Sept. 16.
- Pocket for garments, Concealed. J. H. Thompson. 2,428,477; Oct. 7.
- Pocket, Garment. M. A. Einbinder. 2,421,488; June 3.
- Pocket, Garment. W. T. Previdi. 2,424,666; July 29.
- Pocketknife. B. M. Kjosrvik. 2,416,929; Mar. 4.
- Pocket pen and pencil protector. F. W. Quidas. 2,425,561; Aug. 12.
- Pocket protector and pen and pencil holder, Combination. E. O. Greer. 2,415,132; Feb. 4.
- Pocket, Safety. C. W. Henson. 2,421,695; June 3.
- Pocket spring surfaces. A. H. Birch. 2,430,098; Nov. 4.
- Pocketed molded pulp receptacle. W. H. Randall. 2,428,384; Oct. 7.
- Pointer adjustment for electric meters, Compensatory suppressed. C. W. Dalzell. 2,431,992; Dec. 2.
- Pointer return device. C. A. de Giers and A. Edelman. 2,425,366; Aug. 12.
- Poison, Rodent and insect. E. F. Sennewald. 2,420,568; May 13.
- Poker and tongs, Combined. F. W. Billig. 2,429,046; Oct. 14.
- Poker chip, Interlocking. P. Friedman. 2,429,020; Oct. 14.
- Polar-type corrosion-inhibiting agents soluble in petroleum lubricating oils, Obtaining. J. E. Shields and E. V. Reilly. 2,421,040; May 27.
- Polarizer and birefringent layers, Laminated. C. J. T. Young. 2,420,279; May 6.
- Polarizer and polarizing lamp. J. F. Dreyer. 2,432,867; Dec. 16.
- Polaroscope. E. Carranza. 2,423,371; July 1.
- Pole attachment. L. D. Warwick. 2,428,186; Sept. 30.
- Pole pieces for magnetic recording and reproducing heads, Removable. C. B. Jones. 2,432,162; Dec. 9.
- Pole-type connector support. R. R. Pittman. 2,425,265; Aug. 5.
- Polish, Liquid wax. J. M. Olson. Re. 22,860; Apr. 1.
- Polisher, Welding tip. C. H. Randolph. 2,414,834; Jan. 28.
- Polishing apparatus, Shoe. B. Silfen. 2,430,958; Nov. 18.
- Polishing instrument for metal musical strings. J. Miller. 2,422,581; June 17.
- Polishing machine for tableware. E. M. Hanrahan and W. A. Mertins. 2,425,469; Aug. 12.
- Pollen, Treating and applying live. L. C. Antles. 2,430,659; Nov. 11.
- Polyacrylonitrile, Bleaching. J. C. Richards. 2,432,448; Dec. 9.
- Polyalcohols carrying ether linkages and preparing the same. H. C. Woodruff. 2,424,424; July 22.
- Polyallyl alcohol, Preparation of. S. A. Ballard. 2,431,224; Nov. 18.
- Polyamide compositions, Production of. R. W. Moncrieff, C. W. Sammons, and E. W. Wheatley. 2,419,277; Apr. 22.
- Polyamide fibers, Improving the properties of. A. K. Schneider. 2,430,953; Nov. 18.
- Polyamide-formaldehyde reactions and products. T. Le S. Cairns. 2,430,860; Nov. 18.
- Polyamide solutions. A. O. Rogers. 2,415,193; Feb. 4.
- Polyazo dyes from benzidine intermediates, Metallizable. A. Krebs, W. Bossard, and P. Hindermann. 2,417,306; Mar. 11.
- Polycarbonamides modified by chromic salts. C. S. Fuller. 2,422,666; June 24.
- Polycarboxylic acid-cellulose products and making same, Unsaturated. J. B. Rust. 2,415,044; Jan. 28.
- Polychloroprene, Reclaiming waste. W. G. Kirby and L. E. Steine. 2,414,428; Jan. 14.
- Polychrome printing plate. R. G. Chollar. 2,427,765; Sept. 23.
- Polycyclic diketopyrimidines. A. W. Anish. 2,423,218; July 1.
- Polycyclic methylpolysiloxanes. D. W. Scott. 2,418,051; Mar. 25.
- Polymers, Sulphur cured unsaturated. C. J. Frosch. 2,426,994; Sept. 9.
- Polyethylene and applying same, Coating compositions of. E. G. Woodbridge, III. 2,429,861; Oct. 28.
- Polygonal generating tool. F. J. Fink. 2,423,696; July 8.
- Polyhalogeno aliphatic nitriles. R. M. Joyce, Jr. 2,425,426; Aug. 12.
- Polyhydric alcohol esters of phenoxyacetoxyacetic acid. M. L. Ernsberger and P. S. Pinkney. 2,424,652; July 29.
- Polyhydric concentrate with cooling of solid residue, Distillation of. R. O. Schmitt. 2,417,131; Mar. 11.
- Polyhydric phenolic aldehyde resin adhesives, Production and utilization of cold-setting. P. H. Rhodes. 2,414,415; Jan. 14.
- Polyhydroxyalkylaryl amines, Preparing secondary. H. M. Wuest. 2,422,997; June 24.
- Polysobutylene utilizing benzoyl peroxide, Plasticizing. J. Rehner, Jr., and P. J. Flory. 2,430,993; Nov. 18.
- Polysocyanate modified polyester-amides. G. T. Vaala and C. E. Frank. 2,422,271; June 17.
- Polyacrylic acid resins and making them. P. D. Watson. 2,433,721; Dec. 30.
- Polymer and carbothiolic acid, Reaction product of a polyethylenically unsaturated. L. M. Richards. 2,420,194; May 6.
- Polymer containing cyclic imide groups, Linear. C. J. Frosch. 2,421,024; May 27.
- Polymeric allyl-type compounds and derivatives thereof. D. E. Adelson and H. F. Gray. 2,426,913; Sept. 2.
- Polymeric composition and producing same, Neutral, highly unsaturated. W. E. Elwell and N. W. Farby. 2,422,002; June 10.
- Polymeric compounds and producing the same, Sulfur-containing. E. F. Izard. 2,418,939; Apr. 15.
- Polymeric compounds, Sulfur-containing. E. F. Izard. 2,418,938; Apr. 15.
- Polymeric compounds, Sulfur-containing. E. F. Izard. 2,418,940; Apr. 15.
- Polymeric materials. M. A. Dietrich and J. E. Kirby. 2,414,028; Jan. 7.
- Polymeric materials containing sulfur, Producing. P. W. Morgan. 2,418,942; Apr. 15.
- Polymeric peroxides of acetyl acetone. H. Rudoff. 2,424,851; July 29.
- Polymerizable diester compounds and making the same. I. E. Muskat. 2,415,366; Feb. 4.
- Polymerization. C. E. Barnes. 2,425,666; Aug. 12.
- Polymerization plants, Operating. R. D. Pinkerton. 2,414,328; Jan. 14.
- Polymerization product of dicarboxylic compounds and vinylic compounds, Conjoint. H. L. Gerhart. 2,424,814; July 29.
- Polymerization products, Conjoint. E. W. Moffett and R. E. Smith. 2,424,838; July 29.
- Polymerization products, Manufacture of. P. W. Denny. 2,414,934; Jan. 28.
- Polymerizing. G. S. Crandall and C. H. Schlesman. 2,425,671; Aug. 12.
- Polymers from alcohols using a boron fluoride-acetic acid complex catalyst. J. T. Horeczy. 2,415,172; Feb. 4.



- Polymers, Hardening of. W. Mertens. 2,418,978; Apr. 15.  
 Polymers of alpha-methylene cyclic acetals. R. H. Wiley. 2,432,601; Dec. 16.  
 Polymers of branched chain hexadienes, Producing. R. C. Morris and J. L. Van Winkle. 2,429,582; Oct. 21.  
 Polymers of diallyl esters of dicarboxylic acids, Stabilized. K. E. Marple and E. C. Shokal. 2,433,616; Dec. 30.  
 Polymers of ethylene, Preparation of. A. T. Larson. 2,414,311; Jan. 14.  
 Polymers of heat polymerized drying oil, Separating. I. M. Bernstein. 2,423,751; July 8.  
 Polymers of 1-acyloxy-1,3 butadienes, Resinous. C. C. Unruh and W. O. Kenyon. 2,432,460; Dec. 9.  
 Polymers of unsaturated derivatives of 3-sulfolanol. E. C. Shokal and R. C. Morris. 2,418,991; Apr. 15.  
 Polymers, Preparation of low molecular weight olefin. H. Berk and D. W. Young. 2,431,454; Nov. 25.  
 Polymers, Producing synthetic rubberlike. W. J. Sparks and J. D. Calfee. 2,433,070; Dec. 23.  
 Polymers, Stabilization of cured. B. S. Biggs. 2,416,282; Feb. 25.  
 Polymers with acylamides and aldehydes. D. W. Woodward. 2,420,730; May 20.  
 Polymethylene diguanamines. J. T. Thurston. 2,423,353; July 1.  
 Polynitroparaffins, Preparation of. W. I. Denton, R. B. Bishop, E. M. Nygaard, and T. T. Noland. 2,425,367; Aug. 12.  
 Polyorganohalogenopolysiloxanes, Preparation of. R. O. Sauer. 2,421,653; June 3.  
 Polyoxyalkylene diols and making such mixtures, Mixtures of. W. J. Toussaint and H. R. Fife. 2,425,845; Aug. 19.  
 Polypentaerythritol esters of rosin acids. G. R. Anderson. 2,420,926; May 20.  
 Polysulfide polymers, Oriented. J. C. Patrick. 2,425,045; Aug. 5.  
 Polysulfide rubber of low water permeability, Producing. N. F. Barr and W. K. Schneider. 2,426,916-17; Sept. 2.  
 Polyvinyl acetal compositions. F. W. Cox. 2,432,471; Dec. 9.  
 Polyvinyl acetal resin composition. M. O. Debacher. 2,433,098; Dec. 23.  
 Polyvinyl acetal resin composition. D. S. Kaltreider. 2,423,981; July 15.  
 Polyvinyl acetals plasticized with partial esters of polyhydric alcohols with unsaturated aliphatic acids. M. O. Debacher. 2,433,097; Dec. 23.  
 Polyvinyl alcohol-stabilized ethanol formamide composition. C. A. Porter and R. Fershko. 2,430,949; Nov. 18.  
 Polyvinyl butyral and a solvent plasticizer in water, Emulsifying. A. J. Geiges. 2,431,800; Dec. 2.  
 Polyvinyl chloride, chlorinated paraffin wax, plasticizer compositions, Thermoplastic. E. F. Brookman and S. F. Pearce. 2,421,409; June 3.  
 Polyvinyl fluoride. D. D. Coffman and T. A. Ford. 2,419,010; Apr. 15.  
 Polyvinyl halide composition containing chlorinated paraffin wax, Thermoplastic. E. F. Brookman and S. F. Pearce. 2,421,408; June 3.  
 Polyvinyl polarizing sheet with tetraethyl ortho silicate, Impregnating a. A. Marks, G. Weiss, and A. R. Miller. 2,432,113; Dec. 9.  
 Pontic tooth. L. W. Fromm. 2,429,931; Oct. 28.  
 Pontoon. L. R. Shep. 2,420,384; May 13.  
 Pontoon bridge, Inflatable, collapsible, military. J. J. Gearon. 2,423,832; July 15.  
 Pontoon or float, Deflatable and retractable wing. L. N. Crispell. 2,429,992; Nov. 4.  
 Ponycycle for children. N. J. Powlick. 2,424,632; July 29.  
 Pogun. E. R. Conklin. 2,425,866; Aug. 19.  
 Poppet valve tool. N. B. Cook. 2,427,045; Sept. 9.  
 Porcelain enamel. E. E. Bryant. 2,414,633; Jan. 21.  
 Porous body expansion joint. A. C. Fischer. 2,431,385; Nov. 25.  
 Porous composition of matter and manufacture. K. S. Ruthman and J. R. Parsons. 2,432,971; Dec. 16.  
 Porous disc type gas mixer. C. C. Anthes. 2,417,670; Mar. 18.  
 Porous masses, Drying of. D. W. Ross. 2,431,201; Nov. 18.  
 Porous pellet delay switch. R. C. Duncan. 2,414,804; Jan. 28.  
 Porphyrin purification. E. G. Snyder. 2,414,070; Jan. 7.  
 Port assembly, Exhaust. J. Williams. 2,418,741; Apr. 8.  
 Portable antenna mounting. A. G. Richardson and C. S. Bednash. 2,426,240; Aug. 26.  
 Portable apparatus for therapeutic irrigation. H. C. Stratton. 2,420,507; May 13.  
 Portable beam cutter. F. M. Kelp. 2,432,240; Dec. 9.  
 Portable carrier. S. R. Koolnis. 2,417,421; Mar. 18.  
 Portable cooler. H. C. Salzmann. 2,427,230; Sept. 9.  
 Portable elevating conveyer. A. A. Kubitz. 2,415,013; Jan. 28.  
 Portable engine-maintenance stand. D. T. Smith. 2,427,695; Sept. 23.  
 Portable hair drier. S. Bichsel and B. Isaacson. 2,420,732; May 20.  
 Portable hand-operated tube bending tool. R. D. McIntosh. 2,428,237; Sept. 30.  
 Portable lamp. F. H. Fristoe. 2,420,307; May 13.  
 Portable ring type heater. J. L. Breese. 2,419,625; Apr. 29.  
 Portable tool. T. J. Hopkins. 2,430,984; Nov. 18.  
 Portfolio. M. Cohen. 2,414,720; Jan. 21.  
 Position control system, Electrohydraulic. G. Agins. 2,421,230; May 27.  
 Position determining system. H. S. Huff. 2,422,100; June 10.  
 Position indicating apparatus. P. Thomas. 2,414,566; Jan. 21.  
 Position-indicating arrangement. B. D. Loughlin. 2,432,026; Dec. 2.  
 Position-indicating device. A. V. Loughren. 2,428,427; Oct. 7.  
 Position plotting, Navigational. D. G. C. Luck. 2,422,025; June 10.  
 Position regulation system. W. Schaelchlin and E. Frisch. 2,417,784; Mar. 18.  
 Position regulator. C. R. Hanna and E. R. Wolfert. 2,419,210; Apr. 22.  
 Position retaining mechanism for filling valves. H. D. Ayars. 2,426,809; Sept. 2.  
 Positioning device for guns, Ammunition. V. C. Bowser. 2,424,964; Aug. 5.  
 Positioning device, Stick. D. Glazer. 2,414,942; Jan. 28.  
 Positioning means for writing machines, Ribbon. A. F. von Soden. 2,423,742; July 8.  
 Positioning mechanism. H. A. Stamper. 2,421,168; May 27.  
 Positive action release hook. C. D. Karp and J. L. Bachman. 2,426,221; Aug. 26.  
 Post, Binder. W. W. Syfert. 2,417,141; Mar. 11.  
 Post, Electrical binding. S. Wallace. 2,430,091; Nov. 4.  
 Post for capstan and like lathes, Tool. E. S. and R. C. Taylor. 2,419,742; Apr. 29.  
 Post handling jack. L. A. Haney. 2,424,929; July 29.  
 Post pulling machine. W. R. Stamler. 2,430,962; Nov. 18.  
 Post setter, Foot actuated. P. A. Bezzerides. 2,432,650; Dec. 16.  
 Post, Spring binding. B. Fox. 2,424,444; July 22.  
 Postal card. G. Weinschenk. 2,430,626; Nov. 11.  
 Posture chair. F. B. Harman. 2,420,745; May 20.  
 Pot and automatic cooker, Electric pressure. I. Page. 2,431,582; Nov. 25.  
 Pot and making same, Plant propagating. F. G. Paxton. 2,423,724; July 8.  
 Pot, Burner. B. Hayter. 2,415,098; Feb. 4.  
 Pot, Rivet heating. G. A. Bishop. 2,419,878; Apr. 29.  
 Potassium base exchanger with water for use in boilers, Mixing the effluent of a. G. W. Smith. 2,433,167; Dec. 23.  
 Potassium ferricyanide, Preparation of. R. Gravell. 2,415,792; Feb. 11.  
 Potassium sulfate from alkali carbonates, Separating. G. Ervin, Jr. 2,424,975; Aug. 5.  
 Potato mold. T. R. Wiley. 2,431,530; Nov. 25.  
 Potato treating process. A. F. Kalmar. 2,417,932; Mar. 25.  
 Potatoes, Treating. A. F. Kalmar. 2,417,933; Mar. 25.  
 Potentiometer circuit. C. A. Lovell and J. F. Müller. 2,417,425; Mar. 18.  
 Potentiometer circuit. D. B. Parkinson. 2,417,442; Mar. 18.  
 Potentiometer elements, Mounting and adjusting. F. Konicek and H. J. Vennes. 2,419,952; May 6.  
 Potentiometer housing and positioning structure. R. B. Grant. 2,431,749; Dec. 2.  
 Potentiometer mechanism, Self-balancing. W. P. Wills. 2,423,540; July 8.  
 Potentiometer winding device. A. C. Goddard. 2,433,112; Dec. 23.  
 Potentiometer with eccentric arm. R. W. Jenny. 2,429,465; Oct. 21.  
 Pothead. E. P. Smith. 2,426,157; Aug. 19.  
 Pottery, Decorating. A. E. Radford. 2,424,117; July 15.  
 Pouch, Safety. I. M. Cowan. 2,421,055; May 27.  
 Poultry feeder. H. E. Smith. 2,429,777; Oct. 28.  
 Poultry picking apparatus. G. F. Jerome. 2,413,712; Jan. 7.  
 Poultry picking machine. G. F. Jerome. 2,413,711; Jan. 7.  
 Poultry plucking machine. G. W. Johnson. 2,429,628; Oct. 28.  
 Poultry, Process and apparatus for treating. E. M. Davis. 2,423,299; July 1.  
 Powder, Black. W. H. Rinkenbach and V. C. Allison. 2,415,848; Feb. 18.  
 Powder box. F. M. Kackley and J. Whitman. 2,413,923; Jan. 7.  
 Powder, Coffee. S. Natelson and M. Weiss. 2,431,496; Nov. 25.  
 Powder composition, Slow burning. D. E. Pearsall. 2,416,639; Feb. 25.  
 Powder container. B. S. Fuess. 2,422,090; June 10.  
 Powder dispensing device, Push button actuated. R. A. Silvius. 2,430,192; Nov. 4.  
 Powder, Hydrophobic insecticidal. A. L. Flenner. 2,430,288; Nov. 4.  
 Powder, Propellant. H. B. Alexander. 2,425,854; Aug. 19.  
 Powder, Smokeless. E. and W. G. Berl. 2,428,829; Oct. 14.  
 Powder spray dispenser. W. L. Rutkowski. 2,431,081; Nov. 18.



- Powders, Manufacture of molding. J. L. Quinn and E. G. Spader. 2,419,035; Apr. 15.
- Power accumulator, Packaged. E. A. Rockwell. 2,418,667; Apr. 8.
- Power and driving means for rotating propeller of helicopters, Motive. V. P. Fleiss. 2,415,584; Feb. 11.
- Power brake. W. Stelzer. 2,414,675; Jan. 21.
- Power control. C. F. Schorn. 2,428,531; Oct. 7.
- Power control, Dual pneumatic. R. R. Stevens. 2,422,596; June 17.
- Power conversion mechanism. W. Scherr. 2,432,044; Dec. 2.
- Power driven cylinder piston pump. R. Hastings, Jr., and B. B. Becker. 2,433,812; Dec. 30.
- Power-driven let-off for looms. O. V. Payne. 2,421,961; June 10.
- Power-driven reciprocating cutter. A. L. Candland. 2,422,221; June 17.
- Power earth mover. C. E. Patterson. 2,416,592; Feb. 25.
- Power element, Compensated. J. C. Osborn. 2,422,365; June 17.
- Power indexing mechanism. O. and H. O. Kylin and M. L. Valentino. 2,417,366; Mar. 11.
- Power lift device. A. E. Young. 2,417,579; Mar. 18.
- Power lift for agricultural implements. W. A. Hyland and J. H. Starr. 2,432,897; Dec. 16.
- Power lift for tractor apparatus, Hydraulic. F. W. Wells and J. T. Kulhavy. 2,430,197; Nov. 4.
- Power line tapping clamp. C. E. Reynolds. 2,423,660; July 8.
- Power mechanism, Cycle stop. C. G. Roper. 2,430,619; Nov. 11.
- Power mechanism, Hydraulic. G. W. Wilkin. 2,431,719; Dec. 2.
- Power output of high-frequency signal generators, Measuring. W. A. Stewart. 2,421,724; June 3.
- Power plant. R. P. Pescara. 2,415,110; Feb. 4.
- Power plant. D. F. Warner. 2,432,358; Dec. 9.
- Power-plant apparatus. A. S. Thompson. 2,418,488; Apr. 8.
- Power plant for helicopters. A. G. Forsyth. 2,433,107; Dec. 23.
- Power plant of the free piston type. R. J. Welsh. 2,423,472; July 8.
- Power plant, Prime mover. R. Sheppard. 2,429,077; Oct. 14.
- Power plant, Ship propulsion. H. S. Carnegie, R. J. Welsh, and E. K. Wood. 2,428,553; Oct. 7.
- Power plant, Steam. R. M. Ostermann. 2,418,477; Apr. 8.
- Power scoop, Hydraulic. C. Lambert. 2,423,894; July 15.
- Power source, Regulated high-voltage. G. C. Sziklai. 2,413,932; Jan. 7.
- Power steering gear. W. K. Creson and E. C. Knight. 2,433,651; Dec. 30.
- Power supply and voltage limiter. T. T. Short. 2,417,272; Mar. 11.
- Power supply for traffic controlling system. C. L. Swanton. 2,420,629; May 13.
- Power supply system. H. N. Kozanowski. 2,431,051; Nov. 18.
- Power system. O. H. Dorer. 2,426,765; Sept. 2.
- Power take-off. A. F. O'Connor. 2,425,044; Aug. 5.
- Power take-off, Automotive. D. B. Martin. 2,424,360; July 22.
- Power take-off device for railway cars. C. L. Moorman and R. M. Burnett. 2,417,561; Mar. 18.
- Power transmission. J. J. Bloomfield. 2,429,119; Oct. 14.
- Power unit. R. S. Williams. 2,432,705; Dec. 16.
- Power unit, Dual control. R. E. Thompson. 2,429,702; Oct. 28.
- Power unit for cranes. H. B. Hayes. 2,432,663; Dec. 16.
- Power transmission. C. A. Neracher and W. T. Dunn. 2,426,234; Aug. 26.
- Power transmission. R. A. Shartle. 2,419,374; Apr. 22.
- Power transmission belts, Making. T. W. Steinke. 2,422,266; June 17.
- Power transmission control means. A. E. Kimberly, Jr. 2,427,408; Sept. 16.
- Power transmission control means. V. E. Matulaitis. 2,425,889-90; Aug. 19.
- Power transmission gear. B. G. W. Bartlett. 2,419,703; Apr. 29.
- Power transmission having a plural pump fluid pressure source and a flow-regulating diverting valve. R. A. Shartle. 2,419,375; Apr. 22.
- Power transmission mechanism. T. Hindmarch. 2,423,886; July 15.
- Power transmission shafting and support therefor. W. Vutz. 2,427,824; Sept. 23.
- Power-transmitting device. J. R. Lemon. 2,415,894; Feb. 18.
- Power unit. A. G. Forsyth. 2,427,846; Sept. 23.
- Power unit for aircraft and the like. A. G. Forsyth. 2,426,008; Aug. 19.
- Power unit for amusement devices and the like. C. Harold. Re. 22,900; July 15.
- Preboarding machine. A. O. Hurxthal. 2,419,645; Apr. 29.
- Precipitation system. W. M. Hutchinson and C. Kerr, Jr. 2,414,528; Jan. 21.
- Precision coupling. F. A. Miller. 2,429,561; Oct. 21.
- Precision divider. T. E. Hyde. 2,413,768; Jan. 7.
- Precision height gage. J. C. Caviechi. 2,429,923; Oct. 28.
- Precooling milking container. R. M. McDade. 2,418,310; Apr. 1.
- Predicting apparatus, Data smoothing and position. W. L. Baker, D. J. Campbell, and A. P. Good. 2,426,584; Sept. 2.
- Prediction apparatus. H. Harris, Jr. 2,425,317; Aug. 12.
- Pregummed hanging material. J. V. Bauer and R. A. Selner. 2,424,546; July 29.
- Preheater for oil for refinery crackers. W. W. Kemp. 2,430,344; Nov. 4.
- Pre-heater for use in electrode arc welding, Combined reactor and induction. G. A. Dolan. 2,416,047; Feb. 16.
- Preparation of photographic compositions and elements. O. W. Murray. 2,414,208; Jan. 14.
- Preparation of photographic emulsions with polyvinyl acetate having a high acetyl content. W. G. Lowe. 2,414,207; Jan. 14.
- Preparation of polychlorinated saturated aliphatic hydrocarbons. O. Reitlinger. 2,429,963; Oct. 28.
- Preparation of sweetening medium from fruit. A. M. Erickson and J. D. Ryan. 2,421,376; June 3.
- Preparation of 2-chlorobutadiene-1,3. O. W. Cass. 2,415,295; Feb. 4.
- Preparation of 2-chlorobutadiene-1,3. A. A. Levine and O. W. Cass. 2,415,294; Feb. 4.
- Preparations active against cocci infections. W. Meiser. 2,426,276; Aug. 26.
- Preselecting mechanism. A. C. Ten Cate and W. C. Agerell. 2,417,528; Mar. 18.
- Preserving peeled white potatoes. R. F. Matarazzo. 2,420,322; May 13.
- Preset control. W. H. Troemel. 2,422,320; June 17.
- Presetting means for long period gyroscopes. R. S. Brannin. 2,429,605; Oct. 28.
- Press: See—
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| Baling press.                  | Mold press.   |
| Ceramic molding press.         | Notching press.                                       |
| Dental crown cap press.        | Pivotal press.  |
| Dental press.                  | Printing press.                                       |
| Double-checking molding press. | Reciprocal double buck laundry press.                 |
| Drill press.                   | Rotary printing press.                                |
| Filter press.                  | Sheeting cutting and creasing press.                  |
| Fluid extracting piston press. | Shoe press.   |
| Gag press.                     | Shoe sole press.                                      |
| Gas heated embossing press.    | Single acting flat-bed web perfecting printing press. |
| Ham press.                     | Sleeve press.   |
| Hydraulic drill press.         | Suction drum press.                                   |
| Hydraulic press.               | Tire press.   |
| Increment press.               | Transfer molding press.                               |
| Injection press.               | Triple-action press.                                  |
| Liquid extraction press.       |   |
- Press. A. R. Crawford. 2,429,669; Oct. 28.
- Press. M. R. Hatch, W. B. Saul, and H. V. O'Connor. 2,432,886; Dec. 16.
- Press. E. G. Loomis. 2,417,697; Mar. 18.
- Press. T. L. May. 2,433,672; Dec. 30.
- Press. R. P. Piperoux and D. G. Soussloff. 2,429,960; Oct. 28.
- Press actuated staking apparatus, Punch. F. W. Vorreyer. 2,430,377; Nov. 4.
- Press and loading means therefor, Multiplaten. L. A. Camerota. 2,420,813; May 20.
- Press brake. R. Funk. 2,426,446; Aug. 26.
- Press brake with brake beam equalizer and work holding bender, Power. B. G. Simmons. 2,430,588; Nov. 11.
- Press control, Hydraulic power. H. P. L. Laussucq and B. Japikse. 2,422,104; June 10.
- Press feed. W. D. Chilton. 2,425,994; Aug. 19.
- Press for making metal handles and links. G. R. Jeneson. 2,418,122; Apr. 1.
- Press for stepwise drawing of metal, Hydraulic. R. A. Kaser. 2,419,563; Apr. 29.
- Press for the manufacture of fiber boards. T. O. Hillbom. 2,415,244; Feb. 4.
- Press forging wrench sockets and the like, Method of and apparatus for. H. T. M. Rice. 2,417,569; Mar. 18.
- Press having a die cushion, Punch. H. B. Werner. 2,417,794; Mar. 18.
- Press having a steaming device, Garment. J. Mallouf. 2,422,917; June 24.
- Press having flexible forming pad, Hydraulic die shaping. W. R. Bridgens. 2,418,393; Apr. 1.
- Press mechanism. E. H. Land, J. R. Swanton, Jr., and J. W. Gibson. 2,431,943; Dec. 2.
- Press roll arrangement for paper making machines. L. Hornbostel and E. D. Beachler. 2,415,350; Feb. 4.
- Press structure. W. Ernst and R. M. Norman. 2,428,620; Oct. 7.
- Press type juice extracting device, Worm. I. Eastman. 2,428,869; Oct. 14.
- Press which straightens and moves work edges into drawing chucks, Metal stretching. A. K. Peterson. 2,428,890; Oct. 14.
- Pressed insulated connector. J. Rogoff. 2,429,585; Oct. 21.
- Presser-bar mechanism for sewing machines. F. F. Zeiler. 2,430,440; Nov. 4.



- Presser, Brake lining. E. H. Janes. 2,433,760; Dec. 30.  
 Presser device for sewing machines. A. B. Clayton. 2,419,482; Apr. 22.  
 Presser device for sewing machines. N. Knaus. 2,419,494; Apr. 22.  
 Presser foot for cloth cutting machines. H. R. T. Gilbert. 2,424,748; July 29.  
 Presser, Glove. E. B. Ziskind. 2,426,331; Aug. 26.  
 Presser, Hand electric clothes. W. H. Ryan. 2,432,252; Dec. 9.  
 Pressing apparatus. A. F. Habenicht. 2,422,895; June 24.  
 Pressing machine. R. H. Reece and A. G. Gilbert. 2,426,747; Sept. 2.  
 Pressing machine and cushioning device for use therein. H. G. Beede. 2,429,914; Oct. 28.  
 Pressing machine attachment. S. Blumenfeld. 2,426,431; Aug. 26.  
 Pressure actuated switch. C. G. Hard af Segerstad. 2,421,149; May 27.  
 Pressure actuated switch. W. R. Peterson. 2,421,284; May 27.  
 Pressure actuated valve. W. T. Caldwell. 2,432,088; Dec. 9.  
 Pressure and temperature relief valve. C. Smith. 2,420,206; May 6.  
 Pressure and temperature responsive fuel metering and injection pump. C. E. Summers. 2,414,617; Jan. 21.  
 Pressure and vacuum venting apparatus. R. C. Uim. 2,413,804; Jan. 7.  
 Pressure applying device for clamps and the like. C. R. Jenkins. 2,424,037; July 15.  
 Pressure control and ignition check for burners, Fuel. P. Arant. 2,417,341; Mar. 11.  
 Pressure control apparatus. H. T. Sparrow. 2,433,326; Dec. 23.  
 Pressure control apparatus, Cabin. W. A. Marshall, Jr. 2,424,764; July 29.  
 Pressure control, Cabin. J. M. Kemper. 2,428,283; Sept. 30.  
 Pressure control for pumps. M. W. Huber. 2,433,220; Dec. 23.  
 Pressure control system, Fluid. W. A. Eaton. 2,419,443; Apr. 22.  
 Pressure control system, Oil well. J. C. Sandilands. 2,417,181; Mar. 11.  
 Pressure control valve. H. Hansen and L. Seefeldt. 2,422,237; June 17.  
 Pressure controlled switch. J. B. Parker. 2,415,034; Jan. 28.  
 Pressure cooker closure. M. J. Zimmer. 2,429,151; Oct. 14.  
 Pressure cooker cover fastener. J. L. Hvale. 2,423,559; July 8.  
 Pressure-expansion rotary engine. C. M. Tumey and E. E. Bowers. 2,414,779; Jan. 21.  
 Pressure governor control mechanism. B. D. Barton. 2,420,515; May 13.  
 Pressure indicating and release valve. E. H. Wittenberg. 2,428,483; Oct. 7.  
 Pressure indicator. R. H. Ostergren. 2,420,148; May 6.  
 Pressure operated drain valve. M. H. White and H. R. Johnson. 2,418,440; Apr. 1.  
 Pressure operated electric strain gage. A. H. Emery. 2,419,061; Apr. 15.  
 Pressure operated mixed drink dispenser. C. C. Bauerlein and W. F. Cramer, Jr. 2,415,861; Feb. 18.  
 Pressure operated switch. H. L. Bowditch. 2,420,282; May 6.  
 Pressure operated switch. C. N. Reavis. 2,428,096; Sept. 30.  
 Pressure proportioner, Duplex. H. J. Burke. 2,421,372; June 3.  
 Pressure recovery and gas cleaning device. F. B. Schneider. 2,424,122; July 15.  
 Pressure regulating valve. M. L. Osborn. 2,416,881; Mar. 4.  
 Pressure regulation and control apparatus, Fluid. C. W. Mott. 2,420,554; May 13.  
 Pressure regulator. L. L. Cunningham. 2,415,812; Feb. 18.  
 Pressure release device. E. H. Wittenberg. 2,429,149; Oct. 14.  
 Pressure relief valve. J. K. Hamilton. 2,420,370; May 13.  
 Pressure-responsive device. G. A. Goepfrich. 2,418,508; Apr. 8.  
 Pressure responsive switch. J. W. White. 2,429,440; Oct. 21.  
 Pressure restricting device. P. H. Phillips. 2,423,155; July 1.  
 Pressure resuscitator. J. H. Emerson. 2,428,451; Oct. 7.  
 Pressure sealed joint. R. Fennema. 2,426,392; Aug. 26.  
 Pressure sensitive adhesive tape. W. L. Nelson and W. N. Morris. 2,415,901; Feb. 18.  
 Pressure-sensitive adhesive tape dispenser. W. H. Miller. 2,424,486; July 22.  
 Pressure switch. W. C. Hasselhorn. 2,432,312; Dec. 9.  
 Pressure switch. H. F. Malone. 2,421,797; June 10.  
 Pressure unit, Rapid traverse. H. H. Merriman. 2,421,282; May 27.  
 Prevention of corrosion. E. Q. Camp. 2,415,161; Feb. 4.  
 Prevention of interference from operation of step-by-step motor. R. F. Post. 2,414,787; Jan. 21.  
 Primer. C. A. Martin. 2,423,837; July 15.  
 Primer. E. D. Regad and A. C. Cohen. 2,430,888; Nov. 18.  
 Primer for blasting, Safety. H. B. Humphrey. 2,425,741; Aug. 19.  
 Primers, Sealing flash holes of. L. Meister. 2,424,993; Aug. 5.  
 Print recorder, Flash. G. Keinath. 2,427,355; Sept. 16.  
 Printer, Contact. C. H. Jacobson. 2,421,150; May 27.  
 Printer for tape, Postage. C. D. Ryan and F. P. Sager. 2,415,762; Feb. 11.  
 Printer having clamping means and guiding means, Rotary stencil. D. Doolittle. 2,429,927; Oct. 28.  
 Printer, Photographic. L. W. Lessler. 2,420,141; May 6.  
 Printer, Photographic. L. W. Lessler. 2,428,333; Sept. 30.  
 Printer storage system. J. A. Spencer. 2,413,849; Jan. 7.  
 Printer, Tape. J. A. Spencer. 2,431,651; Nov. 25.  
 Printer's chase, Sectional. I. Rothchild and H. La Faille. 2,433,485; Dec. 30.  
 Printing and adding machine. W. T. Gollwitzer. 2,414,643; Jan. 21.  
 Printing and calculating machine. W. T. Gollwitzer. 2,427,049; Sept. 9.  
 Printing and feeding means for cash registers. W. S. Gubelmann. 2,418,027; Mar. 25.  
 Printing and punching machine, Selective. O. J. Sundstrand. 2,431,714; Dec. 2.  
 Printing apparatus. M. Reynolds and H. G. Barrett. 2,414,895; Jan. 28.  
 Printing apparatus, Textile. S. B. Stafford. Re. 22,942; Nov. 25.  
 Printing compositions for textiles comprising ester salts of leuco vat dyestuffs and betaines or sulfobetaines which contain an aralkyl radical. R. Ratti and P. Brandt. 2,431,708; Dec. 2.  
 Printing control means for cash registers. E. C. Carter and C. G. Dudis. 2,416,792; Mar. 4.  
 Printing device. C. L. Comegys. 2,425,305; Aug. 12.  
 Printing device. M. Engler. 2,424,606; July 29.  
 Printing device, Sheet. W. J. Peterson. 2,426,564; Aug. 26.  
 Printing elements, Mounting and registering. W. L. McCarter. 2,428,428; Oct. 7.  
 Printing from a composite hectographic form. W. S. Cochran. 2,423,553; July 8.  
 Printing interpreter. R. W. Ritzert. 2,426,951; Sept. 2.  
 Printing machine. W. R. Allen and C. H. Sand. 2,421,824; June 10.  
 Printing machine. W. T. Gollwitzer. 2,425,149; Aug. 5.  
 Printing machine. A. J. Horton and W. K. Eckhard. 2,419,403; Apr. 22.  
 Printing machine. C. J. Hueber. 2,414,813; Jan. 28.  
 Printing machine. E. J. Janke. 2,425,327; Aug. 12.  
 Printing machine. N. J. Pantazakos. 2,423,112; July 1.  
 Printing mechanism. A. W. Mills, F. J. Furman, and E. J. Rabenda. 2,413,883; Jan. 7.  
 Printing mechanism, Record controlled multiple line. E. J. Rabenda and F. J. Furman. 2,426,049; Aug. 19.  
 Printing members, Making. R. G. Chollar. 2,413,747; Jan. 7.  
 Printing on cloth. R. F. Foard. Re. 22,835; Jan. 28.  
 Printing plate and carrier therefor. C. J. Hueber. 2,425,323; Aug. 12.  
 Printing plate and carrier therefor. C. J. Hueber and W. J. Hampton. 2,425,325; Aug. 12.  
 Printing plate and carrier therefor. E. A. Schultz. 2,425,350; Aug. 12.  
 Printing plate and reinforced carrier therefor. W. H. Nau. 2,425,338; Aug. 12.  
 Printing plate blank and carrier therefor. C. J. Hueber. 2,425,322; Aug. 12.  
 Printing plates, Making porous rubber polychrome. R. G. Chollar and G. J. Wilson. 2,427,836; Sept. 23.  
 Printing plates on carriers, Retaining. C. J. Hueber. 2,425,324; Aug. 12.  
 Printing press. W. W. Davidson. 2,427,904; Sept. 23.  
 Printing press. R. L. Friel. 2,429,874; Oct. 28.  
 Printing press. C. A. Harless. 2,425,184; Aug. 5.  
 Printing press. C. R. Kaddeland. 2,425,680; Aug. 12.  
 Printing press. W. A. Whitehead. 2,425,167; Aug. 5.  
 Printing press drive. T. E. Piazza. 2,416,495; Feb. 25.  
 Printing, Process and apparatus for electronic. W. C. Huebner. Re. 22,869; Apr. 15.  
 Printing tape dispenser. E. W. Mason. 2,432,202; Dec. 9.  
 Printing telegraph apparatus. L. N. Potts. 2,415,909; Feb. 18.  
 Printing telegraph system utilizing variably spaced impulses. J. J. B. Lair. 2,429,632; Oct. 28.  
 Prints or designs, Electrolytically reproducing. C. O. Prest. 2,421,735; June 3.  
 Prism, Color selective. G. L. Dimmick. 2,418,627; Apr. 8.  
 Prismatic radiating navigational system. W. P. Mason. 2,422,691; June 23.  
 Probe, Lacing. A. S. Antepencko. 2,421,110; May 27.  
 Production of mercaptans. W. A. Schulze. 2,427,309; Sept. 9.  
 Products by micro-organisms acting upon prepared sulfate waste liquor, Production of useful. J. L. McCarthy. 2,430,355; Nov. 4.



- Products comprising glass fibers, Decorative. R. I. Johns. 2,422,969; June 24.
- Products from wood distillate by fractional distillation, Separation of. A. A. Reiter and F. L. Beman. 2,416,270; Feb. 18.
- Products having recurring aryethylene units with terminal from a saturated halogenated alkane, Production of. J. Harmon. 2,423,497; July 8.
- Progesterone, Preparing. R. E. Marker and E. J. Lawson. 2,420,491; May 13.
- Program formulator. J. N. Grieveson. 2,427,207; Sept. 9.
- Projectile. L. E. Beavers. 2,429,599; Oct. 28.
- Projectile. G. W. Blackinton and J. J. Calhoun. 2,427,989; Sept. 23.
- Projectile. K. M. Foster. 2,414,863; Jan. 28.
- Projectile. J. C. Gray, W. E. Thibodeau, J. H. Church, and G. J. Kessenich. 2,426,997; Sept. 9.
- Projectile. J. E. Haigney. 2,415,348; Feb. 4.
- Projectile. J. V. Howe. 2,423,453; July 8.
- Projectile. M. E. Kasper. 2,424,934; July 29.
- Projectile. H. H. Mohaupt. 2,419,414; Apr. 22.
- Projectile. H. J. Nichols. 2,422,559; June 17.
- Projectile, Explosive. J. H. Church and G. J. Kessenich. 2,424,970; Aug. 5.
- Projectile, Fusion. W. Nicholas. 2,417,437; Mar. 18.
- Projectile, Rocket. C. L. Eksbergian. 2,422,720; June 24.
- Projectile, Rocket. W. W. Farr. 2,422,721; June 24.
- Projectile, Rocket. H. E. Jones. 2,421,752; June 10.
- Projectiles toward predetermined destinations and for ascertaining the positions of the destinations, Means for guiding. M. J. Noell. 2,418,137; Apr. 1.
- Projection apparatus. A. A. Gradisar and G. E. Guellich. 2,414,867; Jan. 28.
- Projection apparatus. W. F. Peck, G. F. Schenk, and H. A. Maier. 2,415,305; Feb. 4.
- Projection apparatus, Film. A. A. Gradiser and G. F. Schenk. 2,415,281; Feb. 4.
- Projection apparatus, Light. F. E. Carlson. 2,425,863; Aug. 19.
- Projection apparatus, Motion-picture. J. A. Links. 2,419,961; May 6.
- Projection comparator, Optical. L. H. Van Dellen. 2,428,505; Oct. 7.
- Projection system, Color image. E. H. Traub. 2,417,621; Mar. 18.
- Projection system, Image. R. R. Law. 2,415,211; Feb. 4.
- Projections to rotors, Securing. F. A. M. Heppner. 2,431,249; Nov. 18.
- Projector and enlarger, Perspective. S. H. Hine. 2,420,316; May 13.
- Projector and projectile, Rocket. W. B. Pope. 2,421,522; June 3.
- Projector apparatus. J. R. Miller. 2,421,077; May 27.
- Projector apparatus, Slide. B. Stechbart. 2,427,164; Sept. 9.
- Projector, Ball. R. A. Gorsuch. 2,432,570; Dec. 16.
- Projector, Barrage rocket. A. S. Gould and F. C. Lindvall. 2,429,021; Oct. 14.
- Projector, Electric abrasive. A. Dutoit. 2,425,520; Aug. 12.
- Projector for motion-picture film, Inspection. P. Bala. 2,422,816; June 24.
- Projector, Gravity. F. J. Sullivan. 2,420,760; May 20.
- Projector, Light. J. G. Whiting. 2,415,120; Feb. 4.
- Projector, Motion-picture. E. Boecking. 2,429,918; Oct. 28.
- Projector, Motion picture. D. Canady. 2,424,739; July 29.
- Projector, Motion-picture. R. J. Miller. 2,427,295-6; Sept. 9.
- Projector, Motion-picture. R. J. Miller. 2,429,364; Oct. 21.
- Projector, Picture and map. T. C. Furnas, Jr. 2,431,612; Nov. 25.
- Projector, Sling-type. T. F. Pearson. 2,430,685; Nov. 11.
- Proofreading machine. R. van Sickler. 2,428,822; Oct. 14.
- Prop or brace. G. H. Jaspersen. 2,413,921; Jan. 7.
- Propeller. H. J. Nichols. 2,423,400; July 1.
- Propeller, Adjustable. R. de Filippis. 2,415,421; Feb. 11.
- Propeller, Adjustable pitch. W. H. Korff. 2,422,558; June 17.
- Propeller, Airplane. A. W. Billings. 2,422,388; June 17.
- Propeller, Airplane. R. M. Johnston. 2,428,225; Sept. 30.
- Propeller assembly, Counter-rotating. W. H. Hunter. 2,429,061; Oct. 14.
- Propeller blade. G. W. Hardy. 2,423,700; July 8.
- Propeller blade constructions, Producing hollow. J. H. McKee. 2,431,064; Nov. 18.
- Propeller blade fairing. W. H. Teeter and C. E. Waring. 2,427,166; Sept. 9.
- Propeller blade with steel shank, Aluminum. E. Martin, G. T. Lampton, and E. E. Vincent. 2,418,418; Apr. 1.
- Propeller blades, Balancing. G. T. Lampton and D. R. Woolf. 2,426,400; Aug. 26.
- Propeller blades, Making. J. B. Tiedemann. 2,422,810; June 24.
- Propeller blades, Making hollow steel. W. S. Hoover. 2,427,785; Sept. 23.
- Propeller blades, Manufacture of. D. J. Davis. 2,429,181; Oct. 14.
- Propeller blades, Manufacture of. D. J. McComb. 2,421,956; June 10.
- Propeller, Contrarotation. H. C. Anderson. 2,424,135; July 15.
- Propeller control. J. F. Haines. 2,417,870; Mar. 25.
- Propeller control. W. S. Hoover. 2,422,966; June 24.
- Propeller control, Directional. D. R. Zuck. 2,420,764; May 20.
- Propeller device, Opposite rotating. W. G. Lundquist. 2,416,662; Feb. 25.
- Propeller, Dual rotation. T. B. Martin and K. L. Baringer. 2,421,514; June 3.
- Propeller feathering control. E. Martin. 2,427,567; Sept. 16.
- Propeller, Flexible, variable-diameter. L. Spitzer, Jr. 2,425,353; Aug. 12.
- Propeller mechanism, Constant speed. P. F. Hackethal. 2,419,893; Apr. 29.
- Propeller mounting. M. Hallead. 2,424,456; July 22.
- Propeller, Nonicing. R. H. Hasler. 2,417,647; Mar. 18.
- Propeller pitch adjusting device, Screw. C. R. Waselge. 2,432,550; Dec. 16.
- Propeller pitch control. J. F. Haines. 2,424,749; July 20.
- Propeller releasing mechanism. C. W. Scott. 2,432,941; Dec. 16.
- Propeller, Reversible. C. Johansen. 2,414,229; Jan. 14.
- Propeller, Screw. C. O. Kell. 2,426,617; Sept. 2.
- Propeller, Screw. F. W. Pawlowski. 2,426,742; Sept. 2.
- Propeller, Staggered. J. H. Davis. 2,432,391; Dec. 9.
- Propeller, Swivelling bladed adjustable pitch. P. W. Sewer. 2,422,138; June 10.
- Propeller synchronizing apparatus. C. W. Chillson and G. W. Brady. 2,433,432; Dec. 30.
- Propeller, Two-position controllable pitch. R. E. Day. 2,428,308; Sept. 30.
- Propeller, Variable pitch. D. Biermann. 2,427,586; Sept. 16.
- Propeller, Variable pitch. D. Biermann. 2,429,665; Oct. 28.
- Propeller, Variable pitch. W. W. Everts. 2,416,516; Feb. 25.
- Propeller, Variable pitch. W. W. Everts. 2,417,917; Mar. 25.
- Propeller, Variable pitch. E. F. Kohl. 2,414,599; Jan. 21.
- Propeller, Variable pitch. H. Murphy and R. E. Linse. 2,425,261; Aug. 5.
- Propeller, Variable pitch. P. M. Olman. 2,416,541; Feb. 25.
- Propeller wing channel, Multiple. W. R. Custer. 2,424,556; July 29.
- Propelling system for life boats, Starting and manual. V. Harasty. 2,418,637; Apr. 8.
- Proportioning device. C. A. Posey. 2,418,985; Apr. 15.
- Propulsion device. P. F. Hackethal. 2,421,692; June 3.
- Propulsion means for material gathering and loading machines. F. Cartledge. 2,430,104; Nov. 4.
- Propulsion mechanism. T. M. Grady. 2,416,689; Mar. 4.
- Propulsion of cycles by the oscillation of the handlebars, Supplementary. E. Genin. 2,416,092; Feb. 18.
- Propulsion system, Electric. E. Frisch. 2,424,310; July 22.
- Propulsion, System of. F. J. Malina and M. Summerfield. 2,431,132; Nov. 18.
- Prospecting apparatus, Electrical. C. R. Nichols and S. H. Williston. 2,428,034; Sept. 30.
- Protecting cap. E. Mauro. 2,422,116; June 10.
- Protecting means for electrical instrumentalities. A. Van Ryan. 2,430,838; Nov. 11.
- Protective apparatus. L. F. Mayle. 2,433,702; Dec. 30.
- Protective apparatus, Approach. A. L. Brownlee. 2,424,677; July 29.
- Protective coatings. E. Roach. 2,429,946; Oct. 28.
- Protective device. E. F. W. Beck and J. S. Ferguson. 2,430,206; Nov. 4.
- Protective device. C. W. Kuhn and T. F. Rosing. 2,425,623; Aug. 12.
- Protective device, Electric overload. J. B. Cataldo and W. E. Stilwell, Jr. 2,420,300; May 13.
- Protective device, Electrical. T. H. Bowen. 2,430,703; Nov. 11.
- Protective device, Electrical. R. G. Clapp. 2,428,616; Oct. 7.
- Protective device for blasting circuit. B. L. Lubelsky and R. E. Hartline. 2,428,334; Sept. 30.
- Protective device for rocket components. R. M. Alverson. 2,426,171; Aug. 26.
- Protective gap device. J. W. Kalb. 2,414,308; Jan. 14.
- Protective means for carrier wave transmitting systems. D. H. Peckham. 2,426,579; Aug. 26.
- Protective pad. M. W. Clarke. 2,432,559; Dec. 16.
- Protective system, Approach. G. H. Browning. 2,421,771; June 10.
- Protective system, Engine. C. N. Reavis. 2,428,095; Sept. 30.
- Protective system for train pipes and signal lines, Pneumatic bearing. C. C. Whitaker. 2,420,924; May 20.
- Protective system, Thermal fire. A. B. Chapman and A. C. Hutton. 2,427,088; Sept. 9.
- Protective unit for fluid lines. O. D. Baker. 2,418,743; Apr. 8.



## Protector: See—

- Athletic shoulder protector. Hose protector.  
Cathode-ray tube protector. Knee protector.  
Chest and shoulder protector. Lady's stocking protector.  
Ear protector. Lamp protector.  
Eyeglass protector. Mailbag protector.  
Footwear protector. Pocket check protector.  
Furniture arm protector. Pocket pen and pencil protector.  
Garment protector. Thimble or finger protector.  
Generator protector. Trouser leg rain protector.  
Hat protector. Wheel protector.
- Protector for connector ends of electric cables, Waterproof cap. E. Winer. 2,428,323; Sept. 30.  
Protector for fire fighters, Face. M. W. Mamlin and R. E. Welker. 2,421,427; June 3.  
Protector for garbage cans and the like. M. J. Dacey. 2,418,291; Apr. 1.  
Protector for hair dryers, Face and neck. P. and R. Dicken. 2,424,744; July 29.  
Protector for ladies' stockings. J. E. Horn. 2,429,625; Oct. 28.  
Protectors, Manufacturing well drill pipe. A. M. Graham. 2,433,042; Dec. 23.  
Protein and dry oil emulsions. W. Paterek. 2,433,783; Dec. 30.  
Protein fibres, Improving the properties of water-insoluble artificial. G. Comolli. 2,426,861; Sept. 2.  
Protein hydrolysate flavoring material, Production of. L. A. Hall. 2,414,299; Jan. 14.  
Protein products, Making oriented regenerated. H. P. Lundgren. 2,425,550; Aug. 12.  
Protein-resin bonded sheet abrasive. A. C. Barwell. 2,419,194; Apr. 22.  
Protein structures and their preparation, Shaped. G. F. Blehn and E. T. Cline. 2,429,214; Oct. 21.  
Protein with acids and furfuryl alcohol and product resulting therefrom, Treatment of. J. R. Coffman and H. F. Lewis. 2,420,736; May 20.  
Protein with acids and product resulting therefrom, Treatment of. J. R. Coffman and H. F. Lewis. 2,420,735; May 20.  
Proteinaceous foam-stabilizing composition and the preparation thereof. H. L. Keil and J. S. Ingraham. 2,431,256; Nov. 18.  
Proteinous compound and the manufacture thereof. V. C. E. Le Gloahac. 2,430,180; Nov. 4.  
Proteins in acid media, Extraction of selective horsebean. F. A. Beique. 2,427,760; Sept. 23.  
Proteins, Isolation of. S. B. Henning. 2,415,426; Feb. 11.  
Proteins, Tanning of. P. B. Davidson. 2,414,858; Jan. 28.  
Protractor, Bevel. W. H. Schneider. 2,421,395; June 3.  
Protractor for use in navigation. H. J. Menge. 2,420,608; May 13.  
Protractor, Navigation. L. V. Staghezza. 2,421,813; June 10.  
Protractor, Straightedge. P. A. Nelson. 2,420,090; May 6.  
Psychrometer. J. Kahl. 2,431,757; Dec. 2.  
Public speaking criticism board. J. W. Barry. 2,430,205; Nov. 4.  
Pull apart separable fastener. L. H. Morin. 2,423,202; July 1.  
Pull-out device for deep well pumps. M. L. Busby. 2,414,254; Jan. 14.  
Puller: See—  
Armature fan puller. Pipe puller.  
Drill puller. Sleeve puller.  
Fuse puller. Valve-seat puller.  
Magnetic nail puller.  
Puller and inserter, Sleeve. F. J. Wiscaver. 2,430,201; Nov. 4.  
Pulley. H. R. Moyer and J. Senkewitz. 2,416,197; Feb. 18.  
Pulley, Alignable. A. Crot and R. R. Richolt. 2,421,685; June 3.  
Pulley, Conveyer belt. P. J. Connors. 2,427,590; Sept. 16.  
Pulley, Geared. D. Heyer. 2,413,763; Jan. 7.  
Pulley mounting. J. G. Bryant. 2,417,467; Mar. 18.  
Pulley, Multiple V-belt. H. O. Williams. 2,427,172; Sept. 9.  
Pulling-on machine. J. S. Kamborian. 2,420,667; May 20.  
Pulling tool. A. L. Cornwell. 2,427,948; Sept. 23.  
Pulp and liquor, Treatment of sulphite. J. Åström. 2,421,590; June 3.  
Pulp container dryer, etc., Sheet. L. M. Wiley. 2,427,036; Sept. 9.  
Pulp control system. R. B. Drescher and A. C. Wenzel. 2,431,995; Dec. 2.  
Pulp from cellulosic material, Production of. J. B. Beveridge and R. D. Kehoe. 2,422,522; June 17.  
Pulp into viscose by adding cation active sulphonium compounds. Processing of refined chemical. P. H. Schlosser and K. R. Gray. 2,428,387; Oct. 7.  
Pulpstone. N. F. Holter. 2,433,814; Dec. 30.  
Pulpstone. W. L. and L. S. Washburn. 2,421,885-6; June 10.  
Pulp washer. J. Neumann. 2,430,135; Nov. 4.  
Pulping machine. S. G. Stapley and W. Subart. 2,433,490; Dec. 30.  
Pulsating screen. W. J. Hartwig. 2,432,238; Dec. 9.  
Pulse circulating circuit for multiplex systems. D. D. Grieg and A. M. Levine. 2,426,205; Aug. 26.  
Pulse communication system. J. B. Atwood and H. O. Peterson. 2,425,315; Aug. 12.  
Pulse communication system. C. W. Hansell. 2,425,314; Aug. 12.  
Pulse communication, Time-modulated. P. K. Chatterjea and C. T. Scully. 2,419,535; Apr. 29.  
Pulse control system. D. E. Norgaard. 2,427,687; Sept. 23.  
Pulse echo system. A. Preisman. 2,419,590; Apr. 29.  
Pulse forming circuit. W. B. Varnum. 2,430,315; Nov. 4.  
Pulse generating circuit. H. W. Lord. 2,429,471; Oct. 21.  
Pulse generating circuit. D. E. Maxwell. 2,415,302; Feb. 4.  
Pulse generating circuit. D. E. Maxwell. 2,416,111; Feb. 18.  
Pulse generating circuit. D. E. Maxwell. 2,431,952; Dec. 2.  
Pulse generating receiver for coded carrier signals. J. M. Francis and A. B. Armistead. 2,422,231; June 17.  
Pulse generating system. E. M. Ostlund and P. W. Sokoloff. 2,424,999; Aug. 5.  
Pulse generating system. N. H. Young, Jr. 2,416,367; Feb. 25.  
Pulse generator. E. E. Crump and L. G. Kersta. 2,419,201; Apr. 22.  
Pulse generator. E. Peterson. 2,419,227; Apr. 22.  
Pulse generator. W. Shockley. 2,416,718; Mar. 4.  
Pulse landing system. N. Marchand. 2,433,381; Dec. 30.  
Pulse limitation and amplification, Apparatus for and method of. I. Wolff. 2,423,671; July 8.  
Pulse modulated transmission system. P. K. Chatterjea and C. T. Scully. 2,429,609; Oct. 28.  
Pulse modulation system. W. A. Miller. 2,432,204; Dec. 9.  
Pulse modulator system, Multichannel. E. Labin and D. D. Grieg. 2,429,631; Oct. 28.  
Pulse multiplex system. G. W. Gilman. 2,428,366; Oct. 7.  
Pulse number modulation system. H. O. Peterson. 2,430,139; Nov. 4.  
Pulse producing apparatus. J. Evans. 2,422,086; June 10.  
Pulse producing system. A. F. Bischoff. 2,420,516; May 13.  
Pulse producing system. W. A. Fitch. 2,423,304; July 1.  
Pulse receiving system. C. W. Hansell. 2,424,274; July 22.  
Pulse relay testing system. J. C. Coykendall. 2,425,600; Aug. 12.  
Pulse repeater system. O. E. Dow. 2,425,316; Aug. 12.  
Pulse system. F. M. Deerhake. 2,416,088; Feb. 18.  
Pulse-type position indicator. F. R. Norton and D. H. Schell. 2,433,002; Dec. 23.  
Pulse width multichannel system. D. D. Grieg. 2,429,616; Oct. 28.  
Pulsed multiplex system employing different width and repetition frequencies for each channel. E. Labin and D. D. Grieg. 2,425,066; Aug. 5.  
Pulses, Production of delayed. S. I. Tourshou. 2,418,375; Apr. 1.  
Pulsing device, Selective. E. Labin and D. D. Grieg. 2,419,571; Apr. 29.  
Pulverizer and seeder, Soil. W. A. Hyland and R. R. Borngraeber. 2,418,937; Apr. 15.  
Pulverulent materials, Method and apparatus for mixing and rendering plastic. C. E. Osborne. 2,431,274; Nov. 18.  
Pump: See—  
Accelerating pump. Multiple pressure pump.  
Accumulator pump. Oil pump.  
Bilge pump. Oil well pump.  
Booster pump. Planetary piston pump.  
Breast pump. Power driven cylinder piston pump.  
Centrifugal pump. Pressure and temperature responsive fuel metering and injection pump.  
Centrifugal-centrifugal pump. Reciprocating rotary distributing pump.  
Compound rotary pump. Rotary gear pump.  
Concrete pump. Rotary hydraulic pump.  
Container mounted pump. Rotary pump.  
Coolant pump. Rotary roller pump.  
Curb pump. Rotary vane type pump.  
Diaphragm pump. Self-priming centrifugal pump.  
Discharge pressure controlled hydraulically operated dispensing pump. Self-priming pump.  
Fluid pump. Shallow well self-priming pump.  
Fuel injecting pump. Sonic pump.  
Fuel injection pump. Suction pump.  
Fuel pump. Two-stage varivolume hand pump.  
Gear pump. Variable delivery alternating piston pump.  
Heat pump. Variable delivery vane pump.  
High-pressure pump. Variable stroke hand pump.  
High speed high pressure vacuum pump. Variable stroke radial cylinder type pump.  
Hydraulic pump.  
Hydraulically controlled dispensing pump.  
Hydroturbine pump.  
Impeller pump.  
Liquid and vapor separating pump.  
Movable vane variable displacement pump.



- Pump. H. E. Adams. 2,433,589; Dec. 30.  
 Pump. C. E. Anderson. 2,420,806; May 20.  
 Pump. E. K. Baker. 2,429,384; Oct. 21.  
 Pump. B. Bogoslovsky. 2,414,355; Jan. 14.  
 Pump. F. E. Brady, Jr. 2,417,627; Mar. 18.  
 Pump. A. T. Bremser. 2,420,164; May 6.  
 Pump. E. F. Cox and J. S. Domingos. 2,418,699; Apr. 8.  
 Pump. D. J. Deschamps. 2,429,403; Oct. 21.  
 Pump. D. D. Donaldson. 2,425,423; Aug. 12.  
 Pump. A. Gabriel. 2,430,764; Nov. 11.  
 Pump. C. B. Gray. 2,416,171; Feb. 18.  
 Pump. G. W. Hardy. 2,423,701; July 8.  
 Pump. W. H. Hazard. 2,419,775; Apr. 29.  
 Pump. H. S. Hoffer. 2,416,317; Feb. 25.  
 Pump. M. W. Huber. 2,433,222; Dec. 23.  
 Pump. J. Mann. 2,430,299; Nov. 4.  
 Pump. B. W. Mantle. 2,427,060; Sept. 9.  
 Pump. L. V. McAnallen. 2,432,247; Dec. 9.  
 Pump. A. V. Mueller. 2,420,556; May 13.  
 Pump. R. L. Nelson. 2,431,070; Nov. 18.  
 Pump. W. W. Taylor. 2,413,851; Jan. 7.  
 Pump. W. W. Taylor. 2,427,818; Sept. 23.  
 Pump. A. Wahle. 2,419,924; Apr. 29.  
 Pump. W. S. West. 2,415,618; Feb. 11.  
 Pump. C. C. Williams. 2,413,935; Jan. 7.  
 Pump. H. N. Wylie. 2,429,011; Oct. 14.  
 Pump. A. Ziska. 2,430,753; Nov. 11.  
 Pump adjuster. Fuel. W. J. Chilcott. 2,420,225; May 6.  
 Pump and air separator unit. W. H. De Lancey. 2,423,439; July 8.  
 Pump and automatic primer, Centrifugal. R. W. Fernstrum. 2,428,487; Oct. 7.  
 Pump and distributor mechanism. A. A. Kucher. 2,418,412; Apr. 1.  
 Pump and impeller, Vapor separating. M. L. Edwards. 2,422,956; June 24.  
 Pump and pump system. J. E. Piccardo and J. E. Armstrong. 2,424,285; July 22.  
 Pump and sewing machine, Combined air. W. O. Runcie. 2,418,483; Apr. 8.  
 Pump and shaft seal therefor. C. J. Blom. 2,427,656; Sept. 23.  
 Pump and tank assembly, Booster. E. J. Kimm and B. R. Bellmann. 2,418,231; Apr. 1.  
 Pump construction. H. E. Rose. 2,424,332; July 22.  
 Pump control. J. B. Marchese. 2,430,775; Nov. 11.  
 Pump control and control system, Special. R. M. Norman. 2,431,071; Nov. 18.  
 Pump controlling. K. R. Lung. 2,430,352; Nov. 4.  
 Pump drive, Scavenge. W. F. Meyers. 2,416,193; Feb. 18.  
 Pump for a fluid transmission mechanism, Variable delivery movable vane. I. W. Dillon. 2,426,491; Aug. 26.  
 Pump for aeronautical apparatus, Gear. A. E. Koffer. 2,432,576; Dec. 16.  
 Pump for internal-combustion engines, Electromagnetic. J. B. Parsons. 2,416,843; Mar. 4.  
 Pump jack. G. Jacobs. 2,420,541; May 13.  
 Pump lubricant metering arrangement. C. L. Taylor. 2,422,864; June 24.  
 Pump mechanism, Fuel injector. M. E. Chandler. 2,423,373; July 1.  
 Pump-motor-heater, Combination. A. R. Pezzillo. 2,419,159; Apr. 15.  
 Pump mounting. A. C. Korte. 2,424,469; July 22.  
 Pump of the axially oscillating vane type, Variable volume hydraulic. H. S. Jakobsen. 2,431,122; Nov. 18.  
 Pump operating means for removing boundary layer from airplane wings, Suction. A. A. Griffith. 2,416,991; Mar. 4.  
 Pump or compressor, Roller vane. F. Clawson. 2,427,494; Sept. 16.  
 Pump or motor. E. K. Benedek. 2,426,588; Sept. 2.  
 Pump or motor, Fluid. W. S. Fallon. 2,417,816; Mar. 25.  
 Pump or the like, Rotary. N. Douglas. 2,428,619; Oct. 7.  
 Pump priming system. E. C. Lloyd. 2,428,373; Oct. 7.  
 Pump seal assembly. S. G. Colbaugh. 2,417,349; Mar. 11.  
 Pump sealing system, Circulating. H. Gartmann. 2,419,681; Apr. 29.  
 Pump shut-off casing for pump removal, Booster. R. G. Holt and J. Martin. 2,420,315; May 13.  
 Pump stroke for changing means. G. Brown. 2,428,140; Sept. 30.  
 Pump structure. J. F. Hoffer. 2,431,175-6; Nov. 18.  
 Pump structure, Fuel injector. C. Messner. 2,421,899; June 10.  
 Pump surfaces, Protection of. D. V. Haarhoff. 2,422,412; June 17.  
 Pump to aerate fish containers, Air. R. M. Williams. 2,429,441; Oct. 21.  
 Pump valve. J. R. Snyder. 2,433,302; Dec. 23.  
 Pump with automatic timer, Fuel. A. Dreisin. 2,417,915; Mar. 25.  
 Pump with pressure loaded bushing. J. M. Roth and J. A. Lauck. 2,420,622; May 13.  
 Pump with resilient end wall, Rotary. J. P. Johnson. 2,427,606; Sept. 16.  
 Pump with vapor separating means, Booster. E. J. Kimm and B. R. Bellmann. 2,419,146; Apr. 15.  
 Pumper, Deep well. H. E. Rose. 2,429,947; Oct. 28.  
 Pumping. W. W. Heckert. 2,424,751; July 29.  
 Pumping apparatus. J. M. McDaniel. 2,429,940; Oct. 28.  
 Pumping apparatus. C. E. Wood. 2,431,007; Nov. 18.  
 Pumping apparatus. De W. E. Yates. 2,428,256; Sept. 30.  
 Pumping apparatus, Rotary. P. M. Riede. 2,426,950; Sept. 2.  
 Pumping apparatus, Vacuum. P. F. Bessy. 2,427,347; Sept. 16.  
 Pumping mechanism. W. G. Green and J. Callahan. 2,419,993; May 6.  
 Pumping mechanism. J. W. McConaghy. 2,418,184; Apr. 1.  
 Pumping mechanism. C. F. Warren. 2,424,595; July 29.  
 Pumping mechanism, Pneumatic. C. M. O'Leary. 2,423,111; July 1.  
 Pumping system. J. W. Craig. 2,415,060; Jan. 28.  
 Pumping system. W. W. Taylor. 2,415,265; Feb. 4.  
 Pumping system for evacuating containers of liquid. B. Samelson. 2,425,957; Aug. 19.  
 Punch. W. F. Kelley and E. O. Roggenstein. 2,421,069; May 27.  
 Punch. P. MacGregor. 2,424,474; July 22.  
 Punch. A. A. Schubring. 2,432,176; Dec. 9.  
 Punch. S. Segal. 2,415,538-9; Feb. 11.  
 Punch and die mechanism. R. Feitl. 2,423,423; July 1.  
 Punch board counter. J. E. Kinsey. 2,431,807; Dec. 2.  
 Punch device. J. E. Gowin. 2,417,638; Mar. 18.  
 Punch, Expanding forming. L. M. Wiley. 2,415,925; Feb. 18.  
 Punch press mechanism. R. Hutchinson. 2,431,482; Nov. 25.  
 Punch, Registering. R. M. Haff. 2,421,500; June 3.  
 Punch, Tape. H. J. Nichols. 2,432,787; Dec. 16.  
 Punch unit, Angle. H. J. Becker. 2,421,864; June 10.  
 Puncher, Double hole lever can. L. H. and G. J. Stock. 2,427,633; Sept. 16.  
 Punching and dimpling tool. L. Weber. 2,433,312; Dec. 23.  
 Punching by transfer means, Method of and apparatus for. G. F. Wales. 2,419,862; Apr. 29.  
 Punching device. E. Braun. 2,415,866; Feb. 18.  
 Punching machine. R. B. Johnson. 2,424,097; July 15.  
 Punching machine. W. Lang. 2,413,875; Jan. 7.  
 Punching machine. L. C. Pearce. 2,424,187; July 15.  
 Punching machine, Manually controlled record. R. E. Page. 2,413,884; Jan. 7.  
 Puppet and doll, Combined. M. G. Hulse. 2,433,555; Dec. 30.  
 Pure sinusoidal wave generator. H. Morrison. 2,416,341; Feb. 25.  
 Purification and compression of ethylene. E. Hunter. 2,432,423; Dec. 9.  
 Purifier and compressor, Gas. E. Piquerez. 2,420,840; May 20.  
 Purifier and sterilizer, Gas. K. Ehrigott. 2,418,339; Apr. 1.  
 Purifying apparatus and indicator, Lubricant. S. D. Perlman. 2,422,498; June 17.  
 Purine nucleotides from biologic substances, Extraction of. L. Laufer and D. R. Schwarz. 2,415,826; Feb. 18.  
 Purse, Coin. G. Slotkin. 2,414,615; Jan. 21.  
 Purse or handbag with removable lining and transparent cover. K. H. Rhodes. 2,428,682; Oct. 7.  
 Push button for radio receivers. M. J. Pifer. 2,422,981; June 24.  
 Push-button switch. J. L. Andrews. 2,431,904; Dec. 2.  
 Push-button switch. L. Beeman. 2,421,865; June 10.  
 Push-button switch. W. C. Linton. 2,415,297; Feb. 4.  
 Push-button switching apparatus. G. E. Hanner. 2,417,161; Mar. 11.  
 Pushcar or wheeled chair, Folding. R. C. Ford. 2,415,629; Feb. 11.  
 Push-pull switch. D. W. Johnson. 2,423,387; July 1.  
 Pusher. S. B. Martin. 2,433,230; Dec. 23.  
 Pusher attachment for tractors. P. L. Mosser. 2,431,495; Nov. 25.  
 Putter used in playing golf. D. Kramer. 2,426,274; Aug. 26.  
 Puzzle. J. Morris. 2,432,031; Dec. 2.  
 Pyrazine derivatives, Production of. J. Wejlard, M. Tishler, and A. E. Erickson. 2,431,896; Dec. 2.  
 Pyrazine, Preparation of. H. F. Pfann and J. K. Dixon. 2,414,552; Jan. 21.  
 Pyrethrin and dialkoxymethyl phthalate insecticide. H. A. Jones and R. C. Bushland. 2,429,818; Oct. 28.  
 Pyrethrin and dibenzyl phthalate insecticide. H. A. Jones and R. C. Bushland. 2,428,494; Oct. 7.  
 Pyrethrin synergist. M. E. Synerholm. 2,431,844-5; Dec. 2.  
 Pyridine compounds. W. H. Feinstone and H. L. Friedman. 2,433,267; Dec. 23.  
 Pyridine-2-thiol and 2,2'-dithiodipyridine as fungicides. E. C. Ladd. 2,429,096; Oct. 14.  
 Pyridones and making them. W. Wenner and J. T. Platf. 2,414,783; Jan. 21.  
 Pyrimidine compound and making the same. F. H. S. Curd and F. L. Rose. 2,422,887-9; June 24.  
 Pyrimidine compounds. F. H. S. Curd, C. G. Raison, and F. L. Rose. 2,433,439-40; Dec. 30.  
 Pyrimidine compounds. F. H. S. Curd and F. L. Rose. 2,422,890; June 24.  
 Pyrogen contents of parenteral solutions, Reducing the. F. P. Pingert and C. W. Ferry. 2,432,970; Dec. 16.  
 Pyrolysis of alkylene glycol monoacyl esters. T. H. Vaughn. 2,415,378; Feb. 4.



- Pyrolysis of hydrocarbons to produce olefines. J. H. Haslam. 2,418,879; Apr. 15.
- Pyrometer. J. A. Obermaier. 2,425,557; Aug. 12.
- Pyrometer, Lens type radiation. W. H. Wannamaker, Jr. 2,422,273; June 17.
- Pyrophosphates in emulsion polymerization. C. F. Fryling. 2,427,847; Sept. 23.
- Pyrrole and pyridine bases, Separating. G. Riethof. 2,425,440; Aug. 12.
- Pyrrole coloring matters and making same. E. P. Goodings and M. A. T. Rogers. 2,422,668; June 24.
- Pyrrole from pyridine homologues by azeotropic distillation with water, Isolation of. L. J. Baney. 2,425,220; Aug. 5.
- Pyrrroles and hydrogenated pyrroles, Producing. W. Reppe, G. Schuster, and E. Weiss. 2,421,650; June 3.
- Quartz crystal holder. W. C. Speed. 2,431,282; Nov. 18.
- Quench head. H. E. Somes, Jr., and O. Marquardt. 2,415,856; Feb. 18.
- Quick-acting connection. A. A. Cadwallader. 2,425,992; Aug. 19.
- Quick detachable coupling. F. A. Barnes. 2,419,702; Apr. 29.
- Quick detachable hook. J. I. Tucker. 2,422,865; June 24.
- Quick detachable hose coupling. T. McIntyre. 2,431,268; Nov. 18.
- Quick disconnect coupling. P. P. Johnson. 2,421,332; May 27.
- Quick disconnect coupling. J. R. Snyder. 2,426,471; Aug. 26.
- Quick disconnect hook. H. Lombard. 2,427,362; Sept. 16.
- Quick-freeze device. L. J. Casmire. 2,428,736; Oct. 7.
- Quick hose coupling. H. C. Krone and W. Meyer. 2,413,978; Jan. 7.
- Quick opening aerial delivery container. H. Wilson and W. P. Yarborough. 2,416,603; Feb. 25.
- Quick release hook. W. G. Moore. 2,422,363; June 17.
- Quick release mechanism. J. T. King. 2,430,985; Nov. 18.
- Quick release parachute harness connector. L. M. Johnston. 2,416,757; Mar. 4.
- Quickly detachable fastener. C. J. Ulrich and A. F. Weissenberger. 2,421,172; May 27.
- Quill, Inking. J. E. Palmer. 2,427,228; Sept. 9.
- Quinacrine hydrochloride, Purifying. J. E. Rundell and T. A. Aho. 2,414,561; Jan. 21.
- Quinaldine, Purification of. F. E. Cislak and M. M. Otto. 2,432,064; Dec. 2.
- Quinoline compounds and making same. J. H. Durckhalter, A. L. Rawlins, F. H. Tendick, E. M. Jones, and W. F. Holcomb. 2,419,199; Apr. 22.
- Quinoline derivatives. F. R. Basford, H. Coates, I. M. Heilbron, and A. H. Cook. 2,416,563; Feb. 25.
- Quinoline disulfides. G. L. Jenkins and J. E. Christian. 2,430,679; Nov. 11.
- Quinoline thiols. G. L. Jenkins and J. E. Christian. 2,430,678; Nov. 11.
- Quinonoid hydrocarbons from benzenoid hydrocarbons by means of anhydrous hydrogen fluoride, Extraction of. A. P. Lien. 2,426,624; Sept. 2.
- Rabbit carrier. W. C. Le Mire. 2,430,403; Nov. 4.
- Rabbit feeder. R. A. Grindstaff. 2,419,834; Apr. 29.
- Rabbit feeder. H. E. Morey. 2,421,214; May 27.
- Race handicapping device. W. Wahrt. 2,417,719; Mar. 18.
- Rack: See—
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|------------------------|--------------------------|
| Adjustable shoe rack.  | Photographic film rack.  |
| Cable rack.            | Shoe rack.               |
| Chain saw filing rack. | Sterilizing rack.        |
| Clothes drying rack.   | Store service rack.      |
| Collapsible rack.      | Thread rack.             |
| Domino score rack.     | Tie rack.                |
| Drying rack.           | Tire rack.               |
| Floral rack.           | Towel rack.              |
| Folding rack.          | Turning and folding meat |
| Garment rack.          | roast rack.              |
| Linoleum rack.         | Utility rack.            |
| Mold rack.             | Waffle warming rack.     |
| Mop or broom rack.     | Water-cooled ammunition  |
| Multiple hanger rack.  | rack.                    |
| Necktie rack.          |                          |
- Rack. M. W. Standlee. 2,433,406; Dec. 30.
- Rack and pinion mechanism. J. X. Merkt. 2,429,696; Oct. 28.
- Rack for ammunition, Storage. E. F. Reynolds. 2,432,802; Dec. 16.
- Rack for apparel belts or the like. H. H. Wehringer. 2,419,101; Apr. 15.
- Rack for kitchen cabinets and the like, Container-supporting. T. Bailey. 2,432,494; Dec. 16.
- Rack for railway cars, Spraying. J. R. Frohoff and K. J. Glasmann. 2,419,397; Apr. 22.
- Rack for refrigerator drawers, Food supporting. G. L. C. Earle. 2,425,232; Aug. 5.
- Rack for supporting and displaying wearing apparel. R. L. Smith. 2,429,173; Oct. 14.
- Rack, oil saver, and waste can receptacle, Combined display. H. J. Smith. 2,432,455; Dec. 9.
- Racking mechanism, Thread guide. R. C. Amidon. 2,423,433; July 8.
- Radar direction indicator. H. E. Rhea. 2,432,173; Dec. 9.
- Radar locating equipment. W. E. Muntz and J. F. Wilcox. 2,416,591; Feb. 25.
- Radar system, Pulse. A. Rothbart. 2,428,038; Sept. 30.
- Radar testing apparatus. E. M. Deloraine and E. Labin. 2,421,016; May 27.
- Radar tracking device. D. E. Wooldridge. 2,426,658; Sept. 2.
- Radial aircraft engine. A. Hasbrouck, A. H. King, L. M. Porter, and G. L. Williams. 2,426,873-6; Sept. 2.
- Radial aircraft engine. L. S. Hobbs and A. V. D. Willgoos. 2,426,879; Sept. 2.
- Radial aircraft engine. A. V. D. Willgoos. 2,426,878; Sept. 2.
- Radial aircraft engine. A. V. D. Willgoos and A. L. Highberg. 2,426,877; Sept. 2.
- Radial cutter. J. I. London. 2,427,011; Sept. 9.
- Radiant energy detecting apparatus. L. Hammond. 2,423,885; July 15.
- Radiant energy for spectrum analysis, Generating. H. W. Dietert and C. W. King. 2,414,363; Jan. 14.
- Radiant-energy receiver. G. C. Larson. 2,425,102; Aug. 5.
- Radiant heating for buildings. G. F. Keck. 2,422,685; June 24.
- Radiant provided with triangular pyramidal projection. W. H. Stangle. 2,415,223; Feb. 4.
- Radiant steam generator. L. J. Marshall. 2,424,476; July 22.
- Radiation absorber. W. P. Mason. 2,415,832; Feb. 18.
- Radiation and reception of microwaves. A. P. King. 2,416,698; Mar. 4.
- Radiation meter. H. P. Kalmus. 2,424,933; July 29.
- Radiator and receiver, Compressional wave. W. P. Mason. 2,414,827; Jan. 28.
- Radiator construction. A. B. Modine. 2,414,159; Jan. 14.
- Radiator cores, Method and apparatus forming plastic. R. T. Cornelius. 2,433,546; Dec. 30.
- Radiator detector quenching circuit. A. H. Lord, Jr. 2,418,892; Apr. 15.
- Radiator, Directive electromagnetic. W. L. Barrow and W. M. Hall. 2,415,807; Feb. 18.
- Radiator, Electrically heated. E. Eger. 2,432,400; Dec. 9.
- Radiator, Hot-water electric. H. Schmitz. 2,427,308; Sept. 9.
- Radiator sealing valve. J. E. Eshbaugh. 2,415,475; Feb. 11.
- Radioactivity, Apparatus and method for recording borehole. S. Krasnow. 2,416,702; Mar. 4.
- Radioactivity of liquids intended for injections, Retaining the. S. Klinghoffer. 2,423,240; July 1.
- Radio air navigation indicator. W. D. Hershberger. 2,430,292; Nov. 4.
- Radio alarm and two-way telephone system. I. F. Byrnes. 2,431,167; Nov. 18.
- Radio altimeter or locator, Superheterodyne. W. L. Carlson. 2,424,796; July 29.
- Radio antenna. L. Himmel and M. Fuchs. 2,419,552; Apr. 29.
- Radio apparatus, Lining up uncontrolled tuned. S. Y. White. 2,422,381; June 17.
- Radio beacon. A. Alford. 2,419,525; Apr. 29.
- Radio beacon. A. Alford and N. Marchand. 2,414,431; Jan. 21.
- Radio beacon. R. R. Brunner. 2,417,807; Mar. 25.
- Radio beacon. C. W. Earp. 2,433,351; Dec. 30.
- Radio beacon, Frequency modulated rotating. W. G. McConnel. 2,420,605; May 13.
- Radio beacon, Omnidirectional. E. N. Dingley, Jr. 2,413,694; Jan. 7.
- Radio beacon simulator, Rotating. G. B. Andrews. 2,429,597; Oct. 28.
- Radio beacon system. W. J. O'Brien. 2,430,244; Nov. 4.
- Radio beacon system, Unifrequency. E. G. Gage. 2,428,966; Oct. 14.
- Radio beam controlled indicating instrument. D. D. Grieg. 2,426,203; Aug. 26.
- Radio bomb release system. D. G. C. Luck. 2,433,284; Dec. 23.
- Radio bomb release system. R. C. Sanders, Jr. 2,416,223; Feb. 18.
- Radio carrier communication system, Wobbled. C. B. H. Feldman. 2,422,664; June 24.
- Radio carrier telephone system. L. A. Kelley. 2,417,555; Mar. 18.
- Radio centercasting system. A. N. Goldsmith. 2,427,670; Sept. 23.
- Radio communicating system, Tested channel. J. C. O'Brien. 2,421,081; May 27.
- Radio communication checking system. B. C. Lord. 2,433,281; Dec. 23.
- Radio communication system, Two-way. J. C. E. Mitchell and W. B. Morrison. 2,433,290; Dec. 23.
- Radio communication system, Two-way. H. A. Robinson. 2,419,593; Apr. 29.
- Radio compass demonstrator, Automatic. L. S. Hartman. 2,418,834; Apr. 15.
- Radio control apparatus. W. L. Dunn. 2,429,406; Oct. 21.
- Radio control apparatus. H. F. Elliott. 2,423,588; July 8.
- Radio control unit. A. W. Plensler. 2,424,845; July 29.
- Radio controlled pilot system. F. L. Moseley. 2,423,336-7; July 1.
- Radio courses, Defining. F. W. Frink. 2,421,023; May 27.



- Radio detection system. L. A. de Rosa. 2,421,018; May 27.
- Radio detection system. D. D. Grieg. 2,426,201; Aug. 26.
- Radio detection system. E. Labin. 2,419,567; Apr. 29.
- Radio direction finder. E. N. Dingley, Jr. 2,415,088; Feb. 4.
- Radio direction finder. D. G. C. Luck. 2,417,310; Mar. 11.
- Radio direction finder. D. G. C. Luck. 2,418,308; Apr. 1.
- Radio direction finder. D. G. C. Luck. 2,422,107; June 10.
- Radio direction finder. D. G. C. Luck. 2,432,777; Dec. 16.
- Radio direction finder, Dual. W. P. Lear. 2,421,948; June 10.
- Radio direction finding. D. G. C. Luck. 2,413,981; Jan. 7.
- Radio direction finding. D. G. C. Luck. 2,415,954-5; Feb. 18.
- Radio direction finding. D. G. C. Luck. 2,422,026; June 10.
- Radio direction finding. D. G. C. Luck. 2,422,108-9; June 10.
- Radio direction finding. D. G. C. Luck. 2,425,383; Aug. 12.
- Radio direction finding. L. E. Norton. 2,422,122; June 10.
- Radio direction finding apparatus. R. I. Cole. 2,427,657; Sept. 23.
- Radio direction finding circuit. G. B. Greene. 2,420,395; May 13.
- Radio direction finding equipment. C. W. Earp, I. R. J. James, and R. F. Cleaver. 2,423,064; June 24.
- Radio direction finding system. R. B. Colton, R. V. D. Corput, and P. E. Watson. 2,427,660; Sept. 23.
- Radio distance measuring apparatus. G. B. Eltgroth. 2,416,741; Mar. 4.
- Radio distance meter. C. W. Earp. 2,417,815; Mar. 25.
- Radio diversity transmitter. H. O. Peterson and R. Trevor. 2,428,582; Oct. 7.
- Radio-frequency air-calorimeter-wattmeter, High-power. P. J. Ovrebo. 2,421,758; June 10.
- Radio frequency control system, Selective. S. W. Seeley. 2,428,297; Sept. 30.
- Radio-frequency electric field bonding apparatus. G. H. Brown and R. A. Bierwirth. 2,422,525; June 17.
- Radio-frequency transformer. J. E. Tillman. 2,433,004; Dec. 23.
- Radio frequency transmitter monitoring system and method. E. H. B. Bartelink. 2,419,527; Apr. 29.
- Radiographs, Method and apparatus for producing. S. H. Neddermeyer and D. W. Kerst. 2,418,523; Apr. 8.
- Radiography. J. Kieffer. 2,426,884; Sept. 2.
- Radio guiding system. E. M. Deloraine and G. J. Lehmann. 2,426,184; Aug. 26.
- Radio locating arrangements. P. K. Chatterjea and L. W. Houghton. 2,431,305; Nov. 25.
- Radio locating equipment. G. W. Fyler. 2,427,905; Sept. 23.
- Radio locator, Frequency modulated-pulse type. J. E. Keister. 2,433,669; Dec. 30.
- Radio measurement of distances and velocities. W. W. Hansen and R. H. Varian. 2,415,094; Feb. 4.
- Radio measurement of distances and velocities. R. H. Varian and W. W. Hansen. 2,415,095; Feb. 4.
- Radio navigation system. G. D. Hulst, Jr. 2,430,570; Nov. 11.
- Radio navigation system. G. D. Hulst, Jr., E. Schoenfeld, and G. Mountjoy. 2,432,158; Dec. 9.
- Radio navigation system. R. C. Sanders, Jr. 2,432,939; Dec. 16.
- Radio navigational apparatus. G. T. Royden. 2,425,008; Aug. 5.
- Radio navigational system. H. Fletcher. 2,423,305; July 1.
- Radio object detection, Distance and direction. R. B. Hoffman. 2,424,984; Aug. 5.
- Radio position finding. D. G. C. Luck. 2,433,283; Dec. 23.
- Radio position indicating system. D. G. C. Luck. 2,427,219-20; Sept. 9.
- Radio power diversion network. G. H. Brown and D. W. Peterson. 2,428,831; Oct. 14.
- Radio program and time signal recording system, Simultaneous. H. L. Rusch. 2,417,129; Mar. 11.
- Radio program selector, Automatic. G. R. Pennington. 2,422,253; June 17.
- Radio pulse echo system. R. M. Smith. 2,417,136; Mar. 11.
- Radio pulse-echo system. S. I. Tourshou and R. Trachtenberg. 2,432,180; Dec. 9.
- Radio pulse generator. W. D. Hershberger. 2,433,758; Dec. 30.
- Radio pulse system. D. S. Bond. 2,415,929; Feb. 18.
- Radio range, Ominidirectional. D. G. C. Luck. 2,422,110; June 10.
- Radio ranging, Method and apparatus for. H. M. Hart. 2,426,501; Aug. 26.
- Radio receiver. F. W. Frink. 2,414,460; Jan. 21.
- Radio receiver. D. D. Grieg. 2,416,305; Feb. 25.
- Radio receiver. D. D. Grieg. 2,416,308; Feb. 25.
- Radio receiver. E. Labin and D. D. Grieg. 2,419,569; Apr. 29.
- Radio receiver. E. Labin. 2,416,328; Feb. 25.
- Radio receiver. N. Marchand. 2,416,336; Feb. 25.
- Radio receiver. W. J. O'Brien. 2,426,580; Aug. 26.
- Radio receiver. C. T. Scully and L. W. Houghton. 2,417,844; Mar. 25.
- Radio receiver and the like. W. C. Rogers. 2,429,370; Oct. 21.
- Radio receiver for frequency modulated signals. D. B. Smith. 2,419,696; Apr. 29.
- Radio receiver system. H. H. Beverage. 2,416,791; Mar. 4.
- Radio receiving system. L. Cohen. 2,415,810; Feb. 18.
- Radio reception means. F. C. Strebe and W. L. Comyns. 2,422,374; June 17.
- Radio reflecting and low drag tow target. J. W. Griesinger and H. Goldstein. 2,419,549; Apr. 29.
- Radio reflection direction and distance determining system. A. D. Blumlein. 2,433,681; Dec. 30.
- Radio system, Directional. V. B. Bagnall. 2,432,134; Dec. 9.
- Radio system for distance and velocity measurement. J. R. Woodyard. 2,424,263; July 22.
- Radio system, Interference reducing. N. H. Young, Jr. 2,425,020; Aug. 5.
- Radio system testing means, Pulse-echo. S. I. Tourshou. 2,420,211; May 6.
- Radio system, Two-way. R. A. Varone. 2,431,212; Nov. 18.
- Radio telegraph transmission bias elimination, Two-tone. A. L. Matte. 2,427,363; Sept. 16.
- Radio telegraph transmitting system, Frequency-shift. J. R. Davey. 2,424,971; Aug. 5.
- Radio telemetering system, Multichannel. T. H. Long. 2,426,778; Sept. 2.
- Radio traffic signaling system. W. H. Capen. 2,429,607; Oct. 28.
- Radio transmission and reception, Method of and apparatus for concurrent. C. E. Atkins. 2,426,581; Sept. 2.
- Radio transmission system. H. W. Kline. Re. 22,884; May 27.
- Radio Transmitter. C. P. Clare. 2,415,727; Feb. 11.
- Radio transmitter. J. M. Dodds and J. H. Ludlow. 2,433,442; Dec. 30.
- Radio transmitter and loud-speaker installation, Combined. C. G. G. Withey. 2,433,413; Dec. 30.
- Radio transmitter automatic volume control. G. L. Fernsler. 2,426,193; Aug. 26.
- Radio transmitter-receiver switching system. J. E. Keister. 2,419,564; Apr. 29.
- Radio viewing system. H. A. Iams. 2,419,024; Apr. 15.
- Radio wave reflectivity indicating system. W. A. Ayres. 2,428,351; Oct. 7.
- Radio waves, Visual reception of. R. K. Potter. 2,416,346; Feb. 25.
- Radiosondes, Calibration of. J. Hornbostel. 2,425,537; Aug. 12.
- Radius former for end mills. I. Sneva. 2,421,358; May 27.
- Radius forming tool. E. H. Zimmer. 2,422,279; June 17.
- Raft, Life. F. G. Manson and J. J. Maskey. 2,413,985; Jan. 7.
- Rafts, Building log. J. G. Gibson. 2,421,145; May 27.
- Rail anchor jaws, Method and implement for setting. H. G. Warr. 2,430,968; Nov. 18.
- Rail assembly for Venetian blinds, Bottom. J. L. Hunter. 2,421,505; June 3.
- Rail bond or the like. R. Selquist. 2,416,883; Mar. 4.
- Rail car mover, Variable-speed. H. C. Pierce. 2,424,631; July 29.
- Rail for baby carriages, Guard. D. P. Griffin. 2,423,311; July 1.
- Railhead clamp. A. H. Genter. 2,421,257; May 27.
- Rail joint. B. J. Johnson. 2,431,483; Nov. 25.
- Rail leveling and anchoring device, Railway. C. E. Chance. 2,421,992; June 10.
- Rail lubricator. R. S. Mennie. 2,428,171; Sept. 30.
- Railroad rail joint. J. L. Cuperka. 2,433,095; Dec. 23.
- Railroad safety device. D. Guerrero. 2,426,868; Sept. 2.
- Railroad tie. J. A. Martin. 2,431,133; Nov. 18.
- Railroad tie forming machine. N. Bernard. 2,418,570; Apr. 8.
- Railroad track switch position indicator system and car actuated circuit controller therefor. T. R. White. 2,414,079; Jan. 7.
- Rail sander sand trap. J. Van V. Elsworth. 2,431,382; Nov. 25.
- Rail tie and fastening means. J. K. Wedgeworth. 2,416,555; Feb. 25.
- Rail tie plate, clamp, and sleeve, Combined. A. Schroetter. 2,432,816; Dec. 16.
- Rails and mold therefor, Preheating welding. E. F. Begtrup. 2,416,863; Mar. 4.
- Railway car-end buffer. G. E. Dath. 2,431,736; Dec. 2.
- Railway car-end buffer. J. H. Link. 2,431,761; Dec. 2.
- Railway car moving apparatus. R. H. Hill. 2,432,156; Dec. 9.
- Railway car seat with compartment. H. L. Decker. 2,429,050; Oct. 14.
- Railway car side wall. G. W. Cox. 2,431,987; Dec. 2.
- Railway car structure. G. G. Gilpin. 2,426,867; Sept. 2.
- Railway car structure. K. T. Nystrom. 2,430,243; Nov. 4.
- Railway car truck. G. E. Dath. Re. 22,867; Apr. 15.



- Railway car truck spring mounting. K. F. Nystrom and V. L. Green. 2,424,625; July 29.
- Railway car truck structure. K. F. Nystrom and V. L. Green. 2,431,072; Nov. 18.
- Railway centralized traffic controlling apparatus. A. L. Jerome. 2,424,038; July 15.
- Railway frog and crossing. D. W. Anderson. 2,427,830; Sept. 23.
- Railway journal box. R. J. Brittain, Jr. 2,422,946; June 24.
- Railway lubricator. J. J. Hennessy. 2,423,775; July 8.
- Railway. Marine. G. H. Atwood and D. M. Schwartz. 2,415,805; Feb. 18.
- Railway signaling apparatus. F. T. Pascoe and A. L. Jerome. 2,422,127; June 10.
- Railway sleeping car bed. B. E. Jones and J. K. Tully. 2,432,572; Dec. 16.
- Railway switch and signal control and interlocking apparatus. R. A. McCann. 2,425,109; Aug. 5.
- Railway tank car. J. W. Burnett. 2,420,121; May 6.
- Railway track frame. J. Ledwinka. 2,425,282; Aug. 5.
- Railway track heater. W. H. Greenfield. 2,415,131; Feb. 4.
- Railway track insulation break-down signaling system. R. R. Kemmerer and A. L. Jerome. 2,424,319; July 22.
- Railway traffic controlling apparatus. C. B. Shields. Re. 22,841; Feb. 11.
- Railway traffic controlling apparatus. C. E. Staples. Re. 22,931; Nov. 4.
- Railway traffic controlling apparatus. J. J. Van Horn. Re. 22,915; Sept. 16.
- Railway traffic controlling apparatus. H. S. Young. 2,420,579; May 13.
- Railway traffic controlling apparatus with manual change-over from remote to local control. T. W. Hays. 2,430,291; Nov. 4.
- Railway truck. J. H. Porteus. 2,427,066; Sept. 9.
- Railway unit, Miniature. S. Schaffan, Jr. 2,422,047; June 10.
- Range unit with separately controlled flues, Portable. R. Mallan. 2,417,314; Mar. 11.
- Rake. H. R. Haase. 2,423,772; July 8.
- Rake. A. Herst. 2,413,827; Jan. 7.
- Rake and stacker, Tractor-mounted hay. R. K. Hartley. 2,424,165; July 15.
- Rake, Garden and lawn hand. W. W. Barracks. 2,422,712; June 24.
- Raking and loading lifting reel. R. R. Raney and J. H. Bornzin. 2,430,734; Nov. 11.
- Raking device. E. W. Baggett. 2,416,426; Feb. 25.
- Ram assemblage. H. P. Brumder and S. Mandl. 2,430,100; Nov. 4.
- Ramp for centrifugally separating solids from liquids, Means including a helical. H. McCurdy. 2,425,110; Aug. 5.
- Ramp for dispensing apparatus. H. V. Gibson and E. E. Casey. 2,427,958; Sept. 23.
- Ram, Hydraulic. J. S. Rothery. 2,432,076; Dec. 2.
- Ram system, Hydraulic. E. Merten. 2,424,108; July 15.
- Ramified tubular gas heater. R. Ruegg. 2,423,997; July 15.
- Range and direction finder, Aircraft. M. Morrison. 2,420,439; May 13.
- Range finder. J. Evans. 2,423,644; July 8.
- Range finder. R. P. and J. R. Garrison. 2,430,009; Nov. 4.
- Range finder, Acoustic. W. A. Munson and J. C. Steinberg. 2,418,136; Apr. 1.
- Range finder, Nonoptical radioscope. E. R. Behn. 2,420,408; May 13.
- Range finder, Ortho pseudo stereo. S. M. MacNeille. 2,432,432; Dec. 9.
- Range finder, Orthopseudo stereo. J. Mihalyi. 2,422,033; June 10.
- Range finder, Stadlometric. C. A. Morrison. 2,423,718; July 8.
- Range indicator. L. A. Meacham. 2,422,204-5; June 17.
- Range indicator. A. M. Skellett. 2,415,855; Feb. 18.
- Range surface unit, Electric. E. O. Morton. 2,418,520; Apr. 8.
- Rasp, Tire. P. C. Neilsen. 2,416,203; Feb. 18.
- Raster screen. H. E. Kallman. 2,416,056; Feb. 18.
- Rat trap. A. McCrimmon. 2,426,973; Sept. 2.
- Ratchet means. A. M. Larkin. 2,417,602; Mar. 18.
- Ratchet operated expansion or compression clamp. O. Peterson. 2,427,472; Sept. 16.
- Ratchet wrench. W. E. Pugh. 2,430,480; Nov. 11.
- Rate changing mechanism. I. E. Mather, A. C. Allen, and S. J. Budlane. 2,416,453; Feb. 25.
- Ratio attachment for pressure cabin controls. J. B. Cooper and A. B. Jepson. 2,419,707; Apr. 29.
- Ratio indicating instrument, Electrical. H. D. Jackes. 2,422,240; June 17.
- Ratio mechanism, Unitary variable. D. Heyer. 2,422,196; June 17.
- Ratiometer. E. W. Fleming. 2,428,209; Sept. 30.
- Ratiometer, Magnetic vane type. H. D. Warshaw. 2,419,612; Apr. 29.
- Ray-emission means. G. G. Ellner. 2,425,672; Aug. 12.
- Rayon, Production. K. M. McLellan. 2,427,993; Sept. 23.
- Rayon, Unwinding packages of. P. W. Markwood. 2,432,916; Dec. 16.
- Razor. J. E. Connolly. 2,413,864; Jan. 7.
- Razor. E. F. Kingsley. 2,421,205; May 27.
- Razor. H. Ostrovsky. 2,426,117; Aug. 19.
- Razor, All-flex pocket. C. J. Garritson. 2,429,352; Oct. 21.
- Razor and blade. J. E. Connolly. 2,413,863; Jan. 7.
- Razor blade and magazine therefor, Safety. N. Testi. 2,424,593; July 29.
- Razor blade conditioner. H. L. Arnest. 2,417,040; Mar. 11.
- Razor blade dispensing container. N. Testi. 2,418,677; Apr. 8.
- Razor blade dispensing magazine. Z. Auerbach. 2,418,495; Apr. 8.
- Razor blade magazine. A. Tuerff and L. C. Lotz. 2,431,523; Nov. 25.
- Razor, Safety. C. J. Blakeney. 2,415,273; Feb. 4.
- Razor, Safety. J. W. Lomax. 2,413,877; Jan. 7.
- Reactance compensation. G. H. Brown. 2,419,985; May 6.
- Reactance control circuit. M. G. Crosby. 2,422,082; June 10.
- Reactance, Controllable. R. W. Clark and F. J. Somers. 2,428,930; Oct. 14.
- Reactance tube controlled generator. N. I. Korman. 2,422,422; June 17.
- Reactances, Microwave variable. H. Kihn. 2,427,100; Sept. 9.
- Reactants with catalytic material, Contacting. D. H. Putney. 2,419,088; Apr. 15.
- Reaction product of phenyl mercury salts with hydroxy alkyl amino compounds and their preparation. F. J. Sowa. 2,423,121; July 1.
- Reaction products of an aldehyde and a triazine derivative. G. F. D'Alenio. 2,417,679; Mar. 18.
- Reaction products of hexamethylenetetramine and petroleum wax substituted oxaromatic compounds having rubberlike properties and preparing same. O. M. Reiff. 2,429,565; Oct. 21.
- Reaction products of primary and secondary alkylolamines. H. H. Young and D. Rubinstein. 2,429,445; Oct. 21.
- Reactive current indicator. A. Warnick. 2,424,131; July 15.
- Reactor system, Saturable. A. L. Embry. 2,422,958; June 24.
- Reactor, Variable. E. Friedlander. 2,431,860; Dec. 2.
- Reading aid for the blind. G. A. Morton and L. E. Flory. 2,420,716; May 20.
- Reading the indication of measuring instruments. G. C. Hartley. 2,426,209; Aug. 26.
- Reagents for the purification of gases, Preparation of. G. U. Hopton. 2,429,759; Oct. 28.
- Rear-vision mirror mounting. T. J. Brown and E. B. Bush. 2,424,222; July 22.
- Receiver arrangement, Wave-signal. H. A. Wheeler. 2,415,318; Feb. 4.
- Receiver, Carrier-exalted. M. G. Crosby. 2,416,911; Mar. 4.
- Receiver circuit. E. Labin and D. D. Grieg. 2,419,570; Apr. 29.
- Receiver for nut removing tools. B. Parizo. 2,416,882; Mar. 4.
- Receiver for spent bobbins, Adjustable. R. G. Turner. 2,423,667; July 8.
- Receiver for time or duration modulated electrical pulses. P. K. Chatterjee and C. T. Scully. 2,428,011; Sept. 30.
- Receiver, Superregenerative. H. A. Wheeler. 2,415,317; Feb. 4.
- Receiver-transmitter unit, Combined Selsyn. H. B. Fuge. 2,428,327; Sept. 30.
- Receiver-Transmitting arrangement. H. A. Wheeler. 2,415,667; Feb. 11.
- Receiver, Vapor. B. I. Kraker. 2,427,288; Sept. 9.
- Receiving and timing arrangement, Electric impulse. G. C. Hartley and W. J. Reynolds. 2,428,023; Sept. 30.
- Receiving system, Diversity. W. Lyons. 2,414,111; Jan. 14.
- Receiving system for radio interception. H. G. Busignies. 2,414,444; Jan. 21.
- Receiving system, Frequency modulation. M. G. Crosby. 2,428,265; Sept. 30.
- Receiving system, Multi-channel. E. Labin and D. D. Grieg. 2,416,330; Feb. 25.
- Receiving system, Radiated-signal. H. M. Lewis. 2,430,296; Nov. 4.
- Receiving system, Ultra high frequency. H. B. Stott. 2,428,300; Sept. 30.
- Receiving system, Wave-signal. H. A. Wheeler. 2,415,316; Feb. 4.
- Receptacle: See—
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| Cigarette receptacle.                    | Multiunit wiring receptacle.     |
| Coin receptacle.                         | Pin receptacle.                  |
| Crashproof liquid containing receptacle. | Pocketed molded pulp receptacle. |
| Dump receptacle.                         | Reinforced receptacle.           |
| Electrical receptacle.                   | Safety delivery receptacle.      |
| Fastener receptacle.                     | Spring lock panel receptacle.    |
| Flexible pocket receptacle.              |                                  |
| Gocart receptacle.                       |                                  |
| Heat insulated receptacle.               |                                  |
- Receptacle and carboy therein, Cushioned. O. Z. Brewer. 2,417,045; Mar. 11.



- Receptacle and closure therefor. J. C. Browne. 2,428,782; Oct. 14.
- Receptacle and extractor for laundering machines, Combined clothes. C. H. Hays, Jr. 2,414,645; Jan. 21.
- Receptacle and ladder, Garbage. T. R. Pope, Sr. 2,419,163; Apr. 15.
- Receptacle attachment for children's vehicles. J. J. Machado. 2,418,717; Apr. 8.
- Receptacle carrier. S. J. Blackwell. 2,429,917; Oct. 28.
- Receptacle closure. A. L. Scott. 2,425,841; Aug. 19.
- Receptacle closure. A. T. Thompson. 2,430,542; Nov. 11.
- Receptacle for analysis, Sperm. H. W. Warner. 2,433,538; Dec. 30.
- Receptacle for fluids. G. C. Allen. 2,432,132; Dec. 9.
- Receptacle for light bulbs, Cushioned. N. A. Tornblom. 2,431,895; Dec. 2.
- Receptacle for paper sheets. C. A. MacCordy. 2,431,131; Nov. 18.
- Receptacle for propagating plants, Method and. M. A. Raines. 2,431,890; Dec. 2.
- Receptacle for safety razors and blades. W. C. Schults. 2,432,818; Dec. 16.
- Receptacle for storing and dispensing discs used as game counters or the like. J. Seltzer. 2,428,997; Oct. 14.
- Receptacle for syringes, Graduated. J. H. Barach. 2,432,605; Dec. 16.
- Receptacle for tumblers, Spring clamp. H. R. Hilstrom. 2,431,752; Dec. 2.
- Receptacle with lid-operating lifter. A. Cahn. 2,430,707; Nov. 11.
- Receptacle with precompressed spring for airplane cowlings or the like. Separable fastener. E. L. Mack. 2,417,207; Mar. 11.
- Receptacles for douche appliances. J. Shapiro. 2,427,477; Sept. 16.
- Reciprocable double buck laundry press. L. M. Kahn. 2,431,123; Nov. 18.
- Reciprocating jaw nut-cracking machine. E. C. and E. S. Blackburn. 2,432,652; Dec. 16.
- Reciprocating load carrier. E. Snell. 2,430,537; Nov. 11.
- Reciprocating mechanism for inclined mineral separating pneumatic tables. G. E. Shawcross. 2,427,423; Sept. 16.
- Reciprocating rotary distributing pump. A. Dreisin and R. E. Peterson. 2,419,542; Apr. 29.
- Reciprocating stoker grate bar. D. J. Mosshart. 2,431,415; Nov. 25.
- Reclaimed rubber and making same. G. P. Wheeler. 2,433,179; Dec. 23.
- Reclaiming apparatus. T. A. La Brecque. 2,425,377; Aug. 12.
- Reclining chair. J. D. Renkes. 2,423,816; July 8.
- Reclining rocking chair. J. Haich. 2,414,298; Jan. 14.
- Reclosing-relays, Internal-fault selective. J. L. Blackburn. 2,416,677; Mar. 4.
- Recoil absorber for guns. W. M. Marseilles. 2,420,492; May 13.
- Recoil mechanism for automatic firearms. G. W. Patchett. 2,426,563; Aug. 26.
- Record changer, Automatic phonograph. H. V. Alexander-son. 2,424,132; July 15.
- Record-changer, Automatic phonograph. H. V. Alexander-son and N. U. Hagren. 2,428,258; Sept. 30.
- Record changer mechanism for phonographs. H. A. Roe. 2,421,909; June 10.
- Record player. A. B. Hartley and H. W. Holt. 2,416,583; Feb. 25.
- Recorder. G. D. Rathbun. 2,431,504; Nov. 25.
- Recorder and reproducer for spiral photographic disk sound recorders. J. J. Dilks, Jr. 2,422,398; June 17.
- Recorder and reproducer, Magazine type magnetic. R. M. Somers and R. C. Van Camp. 2,422,143; June 10.
- Recorder bar. W. G. H. Finch. 2,413,962; Jan. 7.
- Recorder, Card time printing and punching. H. E. Hobby. 2,421,697; June 3.
- Recorder, Chronometric. W. K. Coburn. 2,426,145; Aug. 19.
- Recorder, Daily and weekly time. W. Halko. 2,433,118; Dec. 23.
- Recorder for radar systems. J. P. Smith. 2,430,307; Nov. 4.
- Recorder for radio locators. T. T. Eaton. 2,422,295; June 17.
- Recorder for radio locators. I. Wolff. 2,415,981; Feb. 18.
- Recorder, Instantaneous. A. C. Ruge. 2,416,276; Feb. 18.
- Recorder, Magnetic. J. B. Little. 2,420,671; May 20.
- Recorder, Newspaper delivery. R. L. Kelly. 2,428,739; Oct. 7.
- Recorder, Questionnaire. P. White. 2,431,784; Dec. 2.
- Recorder, Radio distance and direction. D. W. Epstein. 2,430,283; Nov. 4.
- Recorder system with electromagnetically attracted electric stylus. W. A. Morrison. 2,433,382; Dec. 30.
- Recorder, Traffic. A. C. Wall. 2,419,099; Apr. 15.
- Recorder, Typewriter rhythm. C. T. Jackson. 2,431,043; Nov. 18.
- Recorder utilizing an energizing oscillating circuit, Magnetic. M. Camras and R. E. Zenner. 2,416,610; Feb. 25.
- Recorder, Voltage ratio. T. A. Rich. 2,420,193; May 6.
- Recorder, Watch timing. T. B. Gibbs. 2,421,781; June 10.
- Recorder with magnetically positioned indicator. R. E. Woolley. 2,417,339; Mar. 11.
- Recorder, Workman's time. J. A. Jonsson. 2,430,402; Nov. 4.
- Recording and reproducing apparatus, Wire type. E. L. Barrett. 2,428,002; Sept. 30.
- Recording and reproducing system, Frequency modulated. C. M. Simnett. 2,422,140; June 10.
- Recording apparatus, Dew point. S. B. Walton. 2,415,776; Feb. 11.
- Recording blank, Electrosensitive. B. L. Kline. 2,425,742; Aug. 19.
- Recording device including rotatable number carrying rings. A. T. Lofstrom. 2,421,513; June 3.
- Recording device, Magnetic. H. A. Vagtborg, M. Camras, and R. E. Zenner. 2,429,703; Oct. 28.
- Recording device permitting median determination, Evanescent. E. F. Flint. 2,432,874; Dec. 16.
- Recording instrument. H. O. Peterson. 2,430,780; Nov. 11.
- Recording instrument, Multiple. J. A. Caldwell. 2,423,480; July 8.
- Recording machine. M. H. Strickland. 2,415,225; Feb. 4.
- Recording mechanism. G. A. Crowther. 2,421,834; June 10.
- Recording-reproducing device, Endless tape magnetic. H. B. Miller. 2,426,838; Sept. 2.
- Recording system, Remote. B. K. Hawes. 2,418,836; Apr. 15.
- Recording the order of passage of moving objects, Photographically. L. Del Riccio. Re. 22,881; May 20.
- Rectangular apertures, Machining. J. E. Kline. 2,420,140; May 6.
- Rectifier. E. E. Comstock. 2,426,599; Sept. 2.
- Rectifier. J. L. Finch and C. W. Hansell. 2,431,383; Nov. 25.
- Rectifier. E. Lidow and E. M. Burlin. 2,430,350; Nov. 4.
- Rectifier. E. Lidow and C. E. Holmes. 2,430,351; Nov. 4.
- Rectifier and making, Selenium. C. S. Smith. 2,426,377; Aug. 26.
- Rectifier and making the same. M. F. Skinner and L. B. Haigh. 2,419,602; Apr. 29.
- Rectifier and transformer unit. K. L. Hansen. 2,415,007; Jan. 28.
- Rectifier assembly. H. J. Braun. 2,416,152; Feb. 18.
- Rectifier assembly and mounting. M. F. Skinner. 2,431,348; Nov. 25.
- Rectifier element and stack. C. A. Clarke. 2,414,801; Jan. 28.
- Rectifier for chloride salt baths. A. F. Holden. 2,431,479; Nov. 25.
- Rectifier, High current. C. A. Kotterman. 2,414,471; Jan. 21.
- Rectifier, Mercury. C. W. Hansell. 2,431,247; Nov. 18.
- Rectifier, Mercury arc. C. K. Ittner. 2,418,305; Apr. 1.
- Rectifier power supply, Constant voltage. R. O. Whitesell. 2,430,381; Nov. 4.
- Rectifier, Self-cooled. C. G. Veinott. 2,424,344; July 22.
- Rectifier, Single anode mercury arc. B. Storsand. 2,414,565; Jan. 21.
- Rectifier tube. P. Janis. 2,432,425; Dec. 9.
- Rectifier type controller. H. D. Middel. 2,414,317; Jan. 14.
- Rectifiers, Contact. W. Flore and C. A. Kotterman. 2,423,091; July 1.
- Rectifiers, Manufacturing metal electric. A. M. Searle. 2,428,043; Sept. 30.
- Rectifying installation comprising blocking layer cells. W. H. Bolding. 2,430,904; Nov. 18.
- Rectilinear pole piece for magnetic sound heads. S. D. Eilenberger. 2,433,207; Dec. 23.
- "Rectox" motor control system. W. H. Formhals and S. H. Hanville, Jr. 2,420,873; May 20.
- Recuperative heat-treatment furnace. R. D. Palmer. 2,418,983; Apr. 15.
- Recuperative soaking pit furnace. W. A. Morton and E. G. Smith. 2,414,888; Jan. 28.
- Recuperator for guns, Hydro-pneumatic. J. F. Joy and D. A. Gurney. 2,420,666; May 20.
- Reducing coupling. A. Kocovar. 2,419,453; Apr. 22.
- Reducing turbulence to the density of the material within a container being packed, Method and apparatus for. E. D. Andrews. 2,426,574; Aug. 26.
- Reel. *See*—
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| Clothesline reel.                | Raking and loading lifting reel. |
| Cord adjusting and storage reel. | Stripper reel.                   |
| Expanding hose reel.             | Thread advancing reel.           |
| Film container reel.             | Wire take-up reel.               |
| Fishing reel.                    | Yarn-advancing reel.             |
| Plumb line reel.                 |                                  |
- Reel. H. Greisman. 2,413,966; Jan. 7.
- Reel. W. H. Richards. 2,425,344; Aug. 12.
- Reel construction. B. G. Nelson. 2,424,413; July 22.
- Reel for barbed wire. A. E. Holub. 2,416,585; Feb. 25.
- Reel for magnetic recording apparatus. B. L. Canfield. 2,427,193; Sept. 9.
- Reel, Harvester. W. H. Harrison. 2,431,397; Nov. 25.
- Reel supporting and driving apparatus, Motion-picture film. F. J. Wenzel. 2,428,538; Oct. 7.



- Reel threading device, Advancing. A. E. Guenther and L. B. Molyneux. 2,420,537; May 13.
- Reinforced elliptical oil cooler. B. Burns. 2,424,795; July 29.
- Refacing machine, Valve rocker arm. T. Swindle. 2,419,179; Apr. 15.
- Reflection from curved glass surfaces, Reducing. F. E. Williams. 2,426,541; Aug. 26.
- Reflective sign. R. W. Luce. 2,421,277; May 27.
- Reflectometer for transmission lines and waveguides. N. I. Korman. 2,423,390; July 1.
- Reflectometer for waveguide transmission lines. C. G. Sontheimer and N. I. Korman. 2,423,526; July 8.
- Reflectometer, Nonfrequency-selective. C. G. Sontheimer and N. I. Korman. 2,423,416; July 1.
- Reflector. H. W. Alexander and A. Comper. 2,424,531; July 22.
- Reflector, Adjustable. M. S. Dunkelberger. 2,421,057; May 27.
- Reflector, Adjustable. L. Schwarzmayr. 2,433,241; Dec. 23.
- Reflector and forming same. S. G. Bart. 2,425,022; Aug. 5.
- Reflector for electromagnetic radiators. C. E. McClellan. 2,422,579; June 17.
- Reflector for lighting. P. H. Mitchell. 2,414,657; Jan. 21.
- Reflector, Low level. D. F. Welch. 2,422,378; June 17.
- Reflector, Selective. G. L. Dimmick. 2,422,954; June 24.
- Reflector shield unit for germicidal lamps. W. Glass. 2,423,884; July 15.
- Reflex harmonic generator. J. W. Tiley. 2,422,146; June 10.
- Refractories and making. J. C. McMullen. 2,425,891; Aug. 19.
- Refractory and insulating materials. N. A. Johnson and P. H. Stern. 2,419,684; Apr. 29.
- Refractory and making same. C. F. Geiger. 2,431,327; Nov. 25.
- Refractory composition. L. W. Austin. 2,433,415; Dec. 30.
- Refractory concrete. D. W. Kocher. 2,416,700; Mar. 4.
- Refractory lining. W. W. Urmetz. 2,433,175; Dec. 23.
- Refractory material, Vitreous coating. C. R. Amberg and H. C. Harrison. 2,422,215; June 17.
- Refractory materials, Method and apparatus for fusing. R. R. Ridgway. 2,426,643; Sept. 2.
- Refrigerant and making. S. B. Wiczer. 2,422,709; June 24.
- Refrigerant container for railway cars. V. E. Sisson. 2,429,078; Oct. 14.
- Refrigerant flow controlling means. F. Y. Carter. 2,432,859; Dec. 16.
- Refrigerated display cabinet. W. Abrahamson. 2,418,062; Mar. 25.
- Refrigerated display case. C. F. Hoffman. 2,425,473; Aug. 12.
- Refrigerated display case. M. D. MacMaster. 2,421,896; June 10.
- Refrigerated display case. H. A. Morris. 2,425,295; Aug. 12.
- Refrigerated dough mixer. M. A. Sticelber. 2,415,711; Feb. 11.
- Refrigerated soda fountain cabinet. H. K. Johnson. 2,418,715; Apr. 8.
- Refrigerating apparatus, Defrosting. M. G. Leeson. 2,430,938; Nov. 18.
- Refrigerating apparatus in which the pressure in the crankcase of the compressor is controlled. M. G. Shoemaker. 2,418,853; Apr. 15.
- Refrigerating apparatus, Secondary. M. Kalischer. 2,433,188; Dec. 23.
- Refrigerating apparatus with secondary refrigerating circuit, Controlled. C. F. Alsing. 2,433,187; Dec. 23.
- Refrigerating system and drying means therefor. J. Touborg. 2,430,692; Nov. 11.
- Refrigerating system including a liquid pump arrangement, Low-pressure absorption. P. Edberg. 2,430,047; Nov. 4.
- Refrigerating system, Two-temperature. E. F. Hubacker. 2,423,386; July 1.
- Refrigerating unit, Removable. M. S. Groh. 2,429,934; Oct. 28.
- Refrigeration. A. R. Thomas. 2,426,069; Aug. 19.
- Refrigeration apparatus. W. B. Anderson, A. W. Haley, and A. H. Kelly. 2,425,021; Aug. 5.
- Refrigeration apparatus. H. Hemming and C. R. Keep. 2,426,827; Sept. 2.
- Refrigeration apparatus and making same. C. E. Hickman. 2,415,243; Feb. 4.
- Refrigeration apparatus for inducing local anesthesia. J. S. Restarski and A. P. Black. 2,429,238; Oct. 21.
- Refrigeration apparatus including defrosting means. R. E. Tobey. 2,426,578; Aug. 26.
- Refrigeration apparatus, Steam jet. W. G. Fraser, Jr., and G. C. Taylor. 2,423,307; July 1.
- Refrigeration insulation. E. H. Horstkotte. 2,429,059; Oct. 14.
- Refrigeration plates, Making hold-over. O. S. McGuffey. 2,416,015; Feb. 18.
- Refrigeration system and expansion valve therefor. F. Y. Carter. 2,415,338; Feb. 4.
- Refrigeration system including evaporator defrosting means. S. P. Soling. 2,430,960; Nov. 18.
- Refrigeration unit, Engine driven. A. W. Scarratt. 2,420,566; May 13.
- Refrigerator. H. M. Herbener. 2,428,312; Sept. 30.
- Refrigerator, Auxiliary. J. G. Elliott. 2,414,588; Jan. 21.
- Refrigerator cabinet. E. D. Drake. 2,432,563; Dec. 16.
- Refrigerator cabinet. E. E. Nofzinger. 2,416,017; Feb. 18.
- Refrigerator cabinet. W. E. Richard. 2,416,845; Mar. 4.
- Refrigerator cabinet. T. W. Rundell. 2,426,525; Aug. 26.
- Refrigerator cabinet construction. T. W. Rundell. 2,426,055; Aug. 19.
- Refrigerator car flashing. J. S. Swann. 2,430,256; Nov. 4.
- Refrigerator, Controlled humidity. M. G. Shoemaker. 2,416,354; Feb. 25.
- Refrigerator, Ice cube dispensing. J. E. Brennan. 2,418,572; Apr. 8.
- Refrigerator including controls for the operation thereof, Display. R. E. Davis. 2,430,329; Nov. 4.
- Refrigerator made of separable refrigerating cabinets. J. G. Pollock. 2,429,294; Oct. 21.
- Refrigerator, Multiple temperature. E. F. Schweller. 2,416,777; Mar. 4.
- Refrigerator, Multitemperature. F. D. Peltier. 2,420,971; May 20.
- Refrigerator port for dispensing container and closure therefor. E. S. Gross. 2,422,350; June 17.
- Refrigerator, Setback. G. L. C. Earle. 2,432,397; Dec. 9.
- Refrigerator, Two-level. J. H. Benson. 2,425,505; Aug. 12.
- Refrigerator, Two-temperature. D. E. Dailey. 2,430,456; Nov. 11.
- Refrigerator with an air pump circuit, Ice. J. M. Hall. 2,432,011; Dec. 2.
- Refrigerator with holdover arrangement. H. M. Herbener. 2,428,311; Sept. 30.
- Refuse bag holder. J. L. Mayer. 2,425,260; Aug. 5.
- Refuse collecting container. H. Linde. 2,417,696; Mar. 18.
- Register, Cash. E. C. Carter. 2,433,647; Dec. 30.
- Register for automatic telephone systems, Time controlled. W. H. Matthies. 2,428,376; Oct. 7.
- Register selecting mechanism. M. Demeulenaere. 2,422,186; June 17.
- Registering and displaying apparatus. J. Handley. 2,430,113; Nov. 4.
- Registering and trimming of printing plates. I. Tornberg and C. L. Ricar. 2,425,580; Aug. 12.
- Registering device, Check. E. H. Thompson. 2,414,619; Jan. 21.
- Registering means, Sheet. H. Bobst. 2,428,769; Oct. 14.
- Registering mechanism. H. N. Bliss. 2,420,808; May 20.
- Registering mechanism and computing device. K. C. Bugg. 2,429,259; Oct. 21.
- Registering system. H. F. May. 2,432,324; Dec. 9.
- Regulating a machine voltage. U. H. Krabbe. 2,429,724; Oct. 28.
- Regulating device for controlling the supply of fuel to internal-combustion engines. T. Simpson, L. S. Greenland, and D. Ramsay. 2,419,171; Apr. 15.
- Regulating means for washing machine agitators. V. Hanson. 2,422,545; June 17.
- Regulating mechanism for time fuses. R. H. Whitehead. 2,430,628; Nov. 11.
- Regulating system. H. C. Jenks. 2,420,881; May 20.
- Regulating system. H. C. Jenks. 2,422,551; June 17.
- Regulating system. J. F. Kovalsky. 2,426,027; Aug. 19.
- Regulating system. W. Partington. 2,421,645; June 3.
- Regulating system. L. G. Tubbs. 2,414,570; Jan. 21.
- Regulating system. C. E. Valentine. 2,428,595; Oct. 7.
- Regulating system for coal pulverizing mills, Coal feed and air flow. M. J. Boho. 2,419,436; Apr. 22.
- Regulating system, Steam boiler. J. Loumiet et Lavigne. 2,423,397; July 1.
- Regulation of the flow of water through hydraulic turbines. N. Landesberg. 2,424,039; July 15.
- Regulator: See—
- Aircraft oxygen regulator.
  - Automatic heat regulator.
  - Cable tension regulator.
  - Carbon pile voltage regulator.
  - Centrifugal regulator.
  - Clearance regulator.
  - Compressor regulator.
  - Draft regulator.
  - Electrical regulator.
  - Electromagnetic regulator.
  - Electronic regulator.
  - Feed water regulator.
  - Flow regulator.
  - Fluid pump regulator.
  - Frequency regulator.
  - Furnace electrode regulator.
  - Latch-type thermostatically controlled regulator.
  - Oil temperature regulator.
  - Position regulator.
  - Pressure regulator.
  - Spring motor regulator.
  - Temperature regulator.
  - Thermostatic regulator.
  - Torque regulator.
  - Valveless pressure regulator.
  - Voltage regulator.
  - Wrist watch regulator.
- Regulator circuit. E. G. Haven. 2,433,665; Dec. 30.
- Regulator for generators, Voltage. J. W. Allen. 2,425,296; Aug. 12.
- Regulator for pumps, Pressure. C. N. O'Leary. 2,426,639; Sept. 2.
- Regulator in vacuum type absorption refrigerating apparatus, Gas purger and solution. P. P. Anderson, Jr. 2,432,978; Dec. 23.



- Regulator mechanism for vehicle windows or the like, Hydraulic. J. B. Parsons. 2,425,391; Aug. 12.
- Regulator mechanism, Hydraulic. J. F. Haines and T. B. Martin. 2,427,779; Sept. 23.
- Reinforced collapsible paperboard container. J. E. Borah. 2,421,238; May 27.
- Reinforced concrete stave mold. A. O. Neuman. 2,429,892; Oct. 28.
- Reinforced contact clip. J. W. Samzelius. 2,422,589; June 17.
- Reinforced receptacle. W. G. Anderson, Jr. 2,418,963; Apr. 15.
- Reinforcement member. J. Gillberg. 2,427,401; Sept. 16.
- Reinforcing elements, Producing. E. A. Tippetts. 2,419,922; Apr. 29.
- Reinforcing means for door panels. D. J. Greiling. 2,433,272; Dec. 23.
- Relay. M. G. Leonard. 2,417,765; Mar. 18.
- Relay. R. C. Mathes. 2,414,476; Jan. 21.
- Relay. T. Obszarny. 2,421,641; June 3.
- Relay allotter for finder switches. J. W. McClew and O. A. Pearce. 2,424,281; July 22.
- Relay and contacts therefor, Rotary. C. P. Molyneux and V. D. Roosa. 2,422,842; June 24.
- Relay, Balanced. R. S. Curry, Jr., J. H. Horman, A. C. Kircher, and H. Winkler. 2,422,396; June 17.
- Relay contact, Coin contact and release. E. J. Newcomer. 2,430,408; Nov. 4.
- Relay controlled start-stop telegraph transmitter, Pendulum. G. C. Hartley and W. J. Reynolds. 2,433,362; Dec. 30.
- Relay device, Time pulsing. L. A. Scholz. 2,419,232; Apr. 22.
- Relay, Distance-type product-responsive. S. L. Goldsborough. 2,426,013; Aug. 19.
- Relay, Distant type product responsive. B. E. Lenahan. 2,426,033; Aug. 19.
- Relay, Dynamically balanced. A. Skrobisch. 2,422,861; June 24.
- Relay, Electric. O. I. Price. 2,423,116; July 1.
- Relay, Electric. J. Bierenfeld. 2,427,437; Sept. 16.
- Relay, Electrical. A. Hufnagel. 2,426,970; Sept. 2.
- Relay, Electromagnetic. S. H. Towner. 2,426,253; Aug. 26.
- Relay, Electromagnetic. W. H. D. Yule. 2,423,135; July 1.
- Relay, Electromagnetic. F. E. Wood. 2,422,764; June 24.
- Relay, Electrostatic. M. A. Bostwick. 2,419,111; Apr. 15.
- Relay having reduced holding current, Capacitor closed. F. D. Snyder. 2,427,751; Sept. 23.
- Relay having retentive magnetic circuit, Capacitor closed. F. D. Snyder. 2,427,750; Sept. 23.
- Relay, Impedance type distance. S. L. Goldsborough. 2,425,735; Aug. 19.
- Relay, Impedance type distance. W. K. Sonnemann. 2,425,759; Aug. 19.
- Relay, Keying. R. W. May. 2,423,838; July 15.
- Relay, Magnetic. V. A. Johnson and F. E. Wood. 2,425,190; Aug. 5.
- Relay, Mercury switch. C. H. Larson. 2,417,763; Mar. 18.
- Relay, Overload. G. C. Armstrong. 2,424,297; July 22.
- Relay, Photoelectric. J. H. Reynolds. 2,416,595; Feb. 25.
- Relay, Polar. A. H. Adams. 2,431,444; Nov. 25.
- Relay, Rotating contactor. W. F. Soffel. 2,417,788; Mar. 18.
- Relay, Selective. J. J. Shively. 2,416,070; Feb. 18.
- Relay, Sequence. H. C. Pratt. 2,419,032; Apr. 15.
- Relay, Sensitive. C. P. Fisher. 2,425,092; Aug. 5.
- Relay, Single pulse. K. Schlesinger. 2,431,832; Dec. 2.
- Relay, Split-phase. A. H. Faulkner. 2,425,179; Aug. 5.
- Relay structure. F. E. Wood. 2,425,275; Aug. 5.
- Relay system, Counting. F. S. Kinkead. 2,417,831; Mar. 25.
- Relay system, Induction motor load. E. Pell. 2,415,189; Feb. 4.
- Relay system, Thermally responsive electrical. C. M. Theillaumas. 2,431,352; Nov. 25.
- Relay systems, Single contact distance. S. L. Goldsborough and H. W. Lensner. 2,430,871; Nov. 18.
- Relay, Telegraph. J. A. Herbst. 2,428,218; Sept. 30.
- Relay testing device. E. B. Ferrell. 2,432,092; Dec. 9.
- Relay, Time delay. R. C. Ring. 2,422,986; June 24.
- Relay valve apparatus. M. MacDonald. 2,426,779; Sept. 2.
- Relay with adjustable armature mounting. F. X. Rees. 2,425,562; Aug. 12.
- Relay with current-compensated voltage restraint, Distance type. W. K. Sonnemann. 2,426,062; Aug. 19.
- Relay with replaceable tripping unit, Thermal. H. L. Van Valkenburg. 2,433,720; Dec. 30.
- Relaying system, Carrier current protective. A. J. McConnell. 2,419,904; Apr. 29.
- Relays, Alternating current. E. Dickten, Jr. 2,416,681; Mar. 4.
- Releasable coupling. A. H. Jensen. 2,423,979; July 15.
- Releasable glider tow cable coupling lock. C. E. Ennis. 2,425,309; Aug. 12.
- Release assembly for bomb shackles. D. I. Sloan. 2,416,028; Feb. 18.
- Release for aerial bombs or other loads, Radiation-controlled. H. C. McKay, A. Martinek, and W. D. Foster. 2,432,920; Dec. 16.
- Release for electric switch locks, Emergency. W. C. McWhirter. 2,425,111; Aug. 5.
- Release means for parachute harness, Quick. W. H. Fausz. 2,420,037; May 6.
- Release mechanism. C. H. Jolly. 2,413,713; Jan. 7.
- Release mechanism, Overload. C. H. Hall. 2,425,736; Aug. 19.
- Release system, Flying hood. W. H. Gille. 2,420,946; May 20.
- Releasing device for typewriters, Type bar. C. Rizzuto. 2,420,445; May 13.
- Relief valve. L. L. Aspelin. 2,423,281; July 1.
- Relief valve. C. W. Bondurant. 2,431,457; Nov. 25.
- Relief valve. O. A. Kehle. 2,419,143; Apr. 15.
- Relief valve. K. W. Nolan. 2,416,205; Feb. 18.
- Remote control. G. A. Waldie. 2,418,532; Apr. 8.
- Remote control apparatus. R. Stevenson and A. W. Keema. 2,420,627; May 13.
- Remote control apparatus for hydraulic systems. H. E. Page. 2,425,071; Aug. 5.
- Remote control for hydraulic systems. G. A. Waldie. 2,416,860; Mar. 4.
- Remote control means for direct current motors. E. L. Olsen. 2,428,984; Oct. 14.
- Remote control means for electrical circuits. D. A. Miller and F. Deauville. 2,419,276; Apr. 22.
- Remote-control means for speed change mechanism. W. Tribble. 2,422,448; June 17.
- Remote control mechanism. J. R. Snyder and F. A. Pease, Jr. 2,431,836; Dec. 2.
- Remote control mechanism, Scupper valve. F. B. Hooper. 2,415,099; Feb. 4.
- Remote control, Modulated radio pulse. S. B. White. 2,420,693; May 20.
- Remote control of deflection in cathode-ray tubes. M. G. Nicholson, Jr. 2,422,975; June 24.
- Remote control system. G. W. Baughman. 2,431,631; Nov. 25.
- Remote control system. D. S. Bond. 2,433,195; Dec. 23.
- Remote control system. A. P. Davis and G. Agins. 2,417,588; Mar. 18.
- Remote control system. L. Devaux. 2,428,017; Sept. 30.
- Remote-control system. H. G. Evers. 2,430,284; Nov. 4.
- Remote control system. L. V. Lewis. 2,420,546; May 13.
- Remote control system. P. D. Lowell. 2,424,243; July 22.
- Remote-control system. E. S. Peterson. 2,427,621; Sept. 16.
- Remote control system. W. P. Place. 2,420,093; May 6.
- Remote control system, Dial. J. S. Le Grand. 2,433,376; Dec. 30.
- Remote-control system for railway signals. T. J. Judge. 2,424,696; July 29.
- Remote control system for step-by-step adjustment of variable impedances. G. Newton. 2,433,389; Dec. 30.
- Remote-control system, Frequency responsive. W. van B. Roberts. 2,429,771; Oct. 28.
- Remote control system, Hydraulic. H. W. Sheridan. 2,422,139; June 10.
- Remote-control system, Self-synchronous. O. M. Owsley. 2,424,843; July 29.
- Remote controlled electrical indicator. H. N. Bliss. 2,426,079; Aug. 19.
- Remote motion reproducing means. F. M. Poole. 2,433,577; Dec. 30.
- Remote-reading position-indicating apparatus, Electrical. A. G. Conrad and F. E. Hiller. 2,430,757; Nov. 11.
- Removable device for drying drums, Fluid. L. Hornbostel and J. E. Goodwillie. 2,420,824; May 20.
- Removable garment pad. O. E. Jay and E. Gildersleeve. 2,418,411; Apr. 1.
- Removable guide pin. N. M. Marsilius. 2,433,617; Dec. 30.
- Remover for shortwall mining machines, Cuttings. J. S. Beltz. 2,415,986; Feb. 18.
- Remover, Staple. H. Ruskin. 2,428,503; Oct. 7.
- Removing weakly acidic substances from oils. C. E. Adams and T. B. Tom. 2,427,083; Sept. 9.
- Repair device. N. Stevens. 2,432,457; Dec. 9.
- Repair device for flush tanks. W. A. Garrigan. 2,430,765; Nov. 11.
- Repeating system, Equalizing. T. Lindenberg, Jr., and S. N. Howell. 2,433,771; Dec. 30.
- Repellent composition, Insect. B. V. Travis and H. A. Jones. 2,420,271; May 6.
- Repellents, Diffusing. R. H. Harkins. 2,418,878; Apr. 15.
- Retailer, Car. H. J. Thomas. 2,421,170; May 27.
- Reservoir for atomizers. L. J. Clark and W. F. Goosmann. 2,424,151; July 15.
- Residue from containers, Removing and concentrating. E. R. Alling and H. A. Trebler. 2,418,063; Mar. 25.
- Resilient churn support. A. H. Boileau. 2,419,814; Apr. 29.
- Resilient constructions for use in furniture. M. Zalocovitz. 2,433,012; Dec. 23.
- Resilient holding means for straw packaging machines. P. C. Moore, Jr. 2,424,153; July 15.
- Resilient metal wheel. E. H. Piron. 2,422,366; June 17.
- Resilient mounting. J. W. Devorss, Jr. 2,430,709; Nov. 11.
- Resilient mounting. N. B. Strachovsky. 2,420,452; May 13.



- Resilient seat support. F. E. Knoedler. 2,432,554; Dec. 16.
- Resilient self-locking electrical connector. O. A. Windsor. 2,430,593; Nov. 11.
- Resilient vehicle wheel. J. T. Murphy. 2,426,704; Sept. 2.
- Resiliently hinged blade mounting. C. M. Kearns, Jr. 2,416,178; Feb. 18.
- Resin and coating paper therewith, Artificial. E. Cohnhoff. 2,428,358; Oct. 7.
- Resin, Chlorinated furane. J. Delmonte. 2,423,139; July 1.
- Resin compositions containing factice, Vinyl. F. S. Martin. 2,426,316; Aug. 26.
- Resin compositions, Polyvinyl acetal. E. A. Rodman. 2,423,565; July 8.
- Resin finishing of textiles. H. J. West. 2,420,157; May 6.
- Resin from cellulose and rosin acids, Processing thermoplastic. E. Färber. 2,418,293; Apr. 1.
- Resin, Hydrogenating coumarone-indene. W. H. Carmody. 2,416,903-5; Mar. 4.
- Resin impregnated stock sheets, Forming laminated. H. C. Gray. 2,432,752; Dec. 16.
- Resin, Manufacture of cast phenolic. C. S. Webber, S. B. Luce, and F. M. Murdock. 2,417,959; Mar. 25.
- Resin of increased melting point and producing, Pine-wood. A. L. Kummelsburg. 2,417,180; Mar. 11.
- Resin prepared with urea, paraformaldehyde, and aniline hydrochloride and removing acids from liquids therewith, Anion exchange. E. L. Holmes. 2,431,251; Nov. 18.
- Resin, Synthetic. W. O. Kenyon, and L. M. Minsk. 2,413,716; Jan. 7.
- Resinous composition. D. J. Muir. 2,413,842; Jan. 7.
- Resinous composition for determining the strain concentration in rigid articles. G. Ellis. 2,428,559; Oct. 7.
- Resinous compositions. D. E. Edgar. 2,413,697; Jan. 7.
- Resinous condensation product of phenol and styrene oxide. C. A. Thomas. 2,422,637; June 17.
- Resinous copolymer of a diacrylate of an unsaturated aldehyde. L. M. Minsk and C. C. Unruh. 2,417,404; Mar. 11.
- Resinous copolymers of 4-methylene 1,3-dioxolane. W. O. Kenyon and T. F. Murray, Jr. 2,415,638; Feb. 11.
- Resinous esterification product made with hydroxylated fatty oil. E. A. Lasher. 2,422,356; June 17.
- Resinous material. E. A. Lasher. 2,416,485; Feb. 25.
- Resinous products, Production of heat reactive. A. J. Norton. 2,414,417; Jan. 14.
- Resinous reaction product of ethylene glycol, glycerol, and succinic anhydride. C. Opp. 2,418,721; Apr. 8.
- Resinous reaction product of polymerized fatty acid ester, rosin and trialkanolamine. C. F. Brown. 2,416,433; Feb. 25.
- Resinous surfaces on organic plastics, and products thereof, Forming hard. D. P. Cooper, Jr. 2,423,583; July 8.
- Resins and adhesives and making same, Synthetic. G. H. Miller. Re. 22,828; Jan. 14.
- Resins and their production, Tall oil ester. F. A. Bent and E. A. Peterson. 2,424,074; July 15.
- Resins, Combustible synthetic. T. Urbanski. 2,419,043; Apr. 15.
- Resins containing glyceryl monethers as flow promoters, Thermosetting. A. Brookes. 2,413,860; Jan. 7.
- Resins from sulfur dioxide and unsaturated organic compounds, Manufacture of. A. K. Scribner and F. W. Wilder. 2,432,686; Dec. 16.
- Resins, Molding. T. F. Stacy and M. D. Farmer. 2,430,033; Nov. 4.
- Resins, Preparation of polyvinyl acetal. G. S. Stamatoff. 2,422,754; June 24.
- Resins, Sulfur-formaldehyde. J. F. Walker. 2,429,859; Oct. 28.
- Resins to eliminate static, Treatment for. E. J. Naumann. 2,416,202; Feb. 18.
- Resins with a monohydric alcohol, Treatment of unsaturated alkyl. C. Gould. 2,418,633; Apr. 8.
- Resistance and indicator therefor, Variable. R. J. Beagles. 2,429,592; Oct. 28.
- Resistance conductor. W. Alleva and H. Blackburn. 2,432,268; Dec. 9.
- Resistance device for coaxial lines, Variable. O. M. Woodward, Jr. 2,422,160; June 10.
- Resistance element, Noninductive. S. O. Dorst. 2,421,688; June 3.
- Resistance material. A. C. Quinn. 2,415,036; Jan. 28.
- Resistance standard, Variable. A. S. Windeler. 2,417,099; Mar. 11.
- Resistor. J. A. Becker, H. Christensen, and J. J. Kleimack. 2,418,461; Apr. 8.
- Resistor. E. Buehler. 2,418,460; Apr. 8.
- Resistor. C. J. Christensen. 2,419,537; Apr. 29.
- Resistor. G. L. Pearson. 2,421,759; June 10.
- Resistor. N. Vasileff. 2,428,053; Sept. 30.
- Resistor and making same, Electrical. S. R. Hood. 2,418,804; Apr. 8.
- Resistor and making the same. J. A. Victoreen. 2,416,599; Feb. 25.
- Resistor device, Variable. D. G. C. Luck. 2,417,311; Mar. 11.
- Resistor, Pressure operated. C. M. Wolfe. 2,431,006; Nov. 18.
- Resistors, Coating wire-wound electrical. B. C. Bricker. 2,416,864; Mar. 4.
- Resistors, Making. J. A. Becker and H. Christensen. 2,414,793; Jan. 28.
- Resonant frequency of series resonant electrical network, Determining the. J. M. Miller. 2,424,249; July 22.
- Resonator and oscillator, Tunable. A. E. Bowen. 2,414,084; Jan. 14.
- Resonator, Electrical. C. P. Carlson, R. W. Chesnut, and A. D. Knowlton. 2,426,177; Aug. 26.
- Resonator for musical instruments. A. M. Tyson. 2,417,277; Mar. 11.
- Resonator magnetron, Cavity. S. T. Martin, Jr. 2,422,028; June 10.
- Resorcinol-aldehyde combined with aromatic amine-aldehyde resin. P. H. Rhodes. 2,432,544; Dec. 16.
- Respiration apparatus. A. J. Kizaur. 2,418,034; Mar. 25.
- Respirator with an auxiliary unit for temporary use, Artificial. J. H. Emerson. 2,427,665; Sept. 23.
- Respiroscope. W. E. Hull. 2,431,328; Nov. 25.
- Responsive device, Condition. M. H. May. 2,414,756; Jan. 21.
- Rest for grinding wheels, Tool. F. Duckwitz. 2,415,676; Feb. 11.
- Restrictor device for refrigerating apparatus. S. M. Schweller. 2,418,671; Apr. 8.
- Resuscitating apparatus. C. C. Rausch. 2,427,419; Sept. 16.
- Retainer and aligner for percussive apparatus, Tool. C. A. Hirschberg. 2,430,716; Nov. 11.
- Retainer and support, Hat form. H. J. Boemanns. 2,426,339; Aug. 26.
- Retainer, Bottle closure. W. W. Mays. 2,418,039; Mar. 25.
- Retainer for journal boxes, Waste. F. B. Lewis and J. A. Schroeder. 2,432,243; Dec. 9.
- Retainer for napkin dispensers, Follower. E. Agamaite, Jr. 2,426,136; Aug. 19.
- Retainer for stud assembly. R. W. Allen. 2,424,265; July 22.
- Retainer, Propellant. N. Anderson and R. R. Hall. 2,432,706; Dec. 16.
- Retaining mechanism for brake beams, Brake head. C. R. Moline. Re. 22,874; Apr. 29.
- Retaining ring. L. W. Schaaff, H. Heimann, and H. Wurzel. 2,416,852; Mar. 4.
- Retaining ring. H. K. Walde. 2,420,921; May 20.
- Retarded shaded pole motor. N. P. W. Frisk. 2,419,396; Apr. 22.
- Retarder for electric water heaters, Multicontact bimetallic thermal. C. M. Osterheld. 2,420,189; May 6.
- Retarder for water heating control systems, Creep-type thermal. C. M. Osterheld. 2,415,965; Feb. 18.
- Retarder in water heater control systems, Light-sensitive cell thermal. C. M. Osterheld. 2,415,966; Feb. 18.
- Retarder, Thermal. C. M. Osterheld. 2,415,522; Feb. 11.
- Retarder, Thermal. C. M. Osterheld. 2,415,524; Feb. 11.
- Retarder unit, Thermal. C. M. Osterheld. 2,415,523; Feb. 11.
- Retention of fillers in papermaking, Increasing. C. W. Wilson. 2,415,779; Feb. 11.
- Reticulated structure, Producing a. J. A. Talalay. 2,432,353; Dec. 9.
- Reticule for telescopes, Adjustable. J. Unertl and J. Unertl, Jr. 2,427,516; Sept. 16.
- Reticules in optical instruments, Method of and apparatus for positioning. K. W. Harper. 2,427,599; Sept. 16.
- Retort tank or like container. E. A. Blount, Sr. 2,420,411; May 13.
- Retractable bracket. E. W. B. Nalley. 2,415,604; Feb. 11.
- Retractable landing gear. C. S. Glasgow and E. F. Burton. 2,432,408; Dec. 9.
- Retractable landing gear. A. N. Lappin and A. E. Bjerke. 2,429,206; Oct. 21.
- Retractable landing gear. H. C. Trich. 2,431,093; Nov. 18.
- Retractile wing and landing gear. J. S. Conner. 2,425,306; Aug. 12.
- Retractor, Bucky. W. H. Haupt. 2,426,502; Aug. 26.
- Retread vulcanizing device. H. T. Kraft. 2,422,788; June 24.
- Retreading equipment, Tire. P. E. Hawkinson. 2,418,584; Apr. 8.
- Retriever appliance for operating utensils such as erasers, pens, pencils, and the like, Automatic. O. Hoppman. 2,419,215; Apr. 22.
- Retriever for flexibly mounted guns, Mount and spent ammunition. C. G. Trimbach, G. A. Luburg, and C. R. Lemonier. 2,415,153; Feb. 4.
- Retriever for well derricks, Drill pipe. O. Sanders. 2,418,728; Apr. 8.
- Return bend. T. H. Clarke. 2,429,924; Oct. 28.
- Return mechanism for typewriters, Carriage. H. W. Decker. 2,423,586; July 8.
- Reusable nesting shipping container. W. L. Stensgaard. 2,421,225; May 27.
- Reusable type hose coupling. G. R. Coss. 2,433,602; Dec. 30.
- Reverberation meter. E. S. Winlund. 2,413,936; Jan. 7.
- Reverberation method and system. B. Kreuzer. 2,421,424; June 3.



- Reverberation method and system. M. Rettinger. 2,431,962; Dec. 2.
- Reversal responsive switch. J. Eaton. 2,423,693; July 8.
- Reversed lay cable. R. C. Waldron and T. L. Hall. 2,430,378; Nov. 4.
- Reversible direct-current motor. R. M. Nardone. 2,432,582; Dec. 16.
- Reversible door lock. O. Ghia. 2,424,450; July 22.
- Reversible electric motor. F. D. Snyder. 2,424,337; July 22.
- Reversible wheel. M. J. Martens. 2,424,106; July 15.
- Reversing mechanism, Loom. F. V. Clarke. 2,421,539; June 3.
- Reversing mechanism, Mechanical. N. A. Westbrook. 2,430,627; Nov. 11.
- Reversing valve. E. R. Dobie. 2,414,638; Jan. 21.
- Revolving electrically conductive joint. F. N. Bard. 2,424,545; July 29.
- Revolving joint. V. W. Breitenstein. 2,428,546; Oct. 7.
- Rhenium, Recovering. A. D. Melaven and J. A. Bacon. 2,414,965; Jan. 28.
- Rheostat and control system, Multiple-circuit. H. L. Rawlins and J. M. Wallace. 2,414,556; Jan. 21.
- Rheostat, Bellows operated. L. H. Middleton and E. A. Kern. 2,423,609; July 8.
- Rheostat, Float operated. W. McCandless. 2,423,603; July 8.
- Rheostat, Welding. E. E. Foster. 2,431,689; Dec. 2.
- Rib knitting machine and knitting thereon. F. Bonser. 2,429,796; Oct. 28.
- Ribbing and slitting machine, Combination. P. R. Heygel. 2,414,739; Jan. 21.
- Ribbon burner. W. B. Ensign and J. H. Flynn. 2,428,271; Sept. 30.
- Ribbon feed device for typewriters, Auxiliary. J. R. Geser. 2,425,794; Aug. 19.
- Ribbon feed for typewriting machines. J. Toggenburger. 2,425,967; Aug. 19.
- Riboflavin by butyl alcohol producing bacteria, Production of. R. J. Hickey. 2,425,280; Aug. 5.
- Riboflavin by candida flareri, Production of. F. W. Tanner, Jr., and J. M. Van Lanen. 2,424,003; July 15.
- Riboflavin, Carrying out fermentation processes for production of. H. L. Pollard and R. E. Meade. 2,433,063; Dec. 23.
- Riboflavin from lacteal material, Preparation. R. E. Meade, N. E. Rodgers, and H. L. Pollard. 2,433,232; Dec. 23.
- Riboflavin from whey and skim milk, Preparing. N. E. Rodgers, H. L. Pollard, and R. E. Meade. 2,433,064; Dec. 23.
- Rig and leader, Fishing. L. A. Hickson. 2,430,115; Nov. 4.
- Rig, Drill. S. A. Fuller. 2,417,247; Mar. 11.
- Rigging, Clasp brake. E. G. Mueller. 2,431,579; Nov. 25.
- Rigid integral shapes of oriented polymer, Making. J. Bailey. 2,429,340; Oct. 21.
- Rim, Heavy-duty wheel. R. B. Temple. 2,427,634; Sept. 16.
- Ring: See—
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| Anastomosis ring.         | Ornamental wheel trim ring. |
| Chevron packing ring.     | Packing ring.               |
| Collector ring.           | Piston oil ring.            |
| Combination urn bag ring. | Piston ring.                |
| Composite sealing ring.   | Retaining ring.             |
| Curtain ring.             | Seal guard ring.            |
| Fabricated piston ring.   | Shaft sealing ring.         |
| Finger ring.              | Spacer ring.                |
| Joint ring.               |                             |
| Oil sealing ring.         |                             |
- Ring and brush assembly, Collector. W. Ruddock. 2,416,498; Feb. 25.
- Ring and traveler. H. J. Smith. 2,413,930; Jan. 7.
- Ring for aircraft, Hydraulically controlled cowling. W. D. Parker. 2,417,945; Mar. 25.
- Ring for pressure cooker closures, Split locking. C. E. Ives. 2,414,529; Jan. 21.
- Ring for spinning and twisting yarn. H. B. Stuart. 2,433,580; Dec. 30.
- Ring for vehicle wheels, Ornamental trim. G. A. Lyon. 2,431,700; Dec. 2.
- Ring for vehicle wheels, Trim. G. A. Lyon. 2,431,701; Dec. 2.
- Ring for vehicles wheels, Ornamental trim. G. A. Lyon. 2,431,338; Nov. 25.
- Ring mill construction. E. B. Hudson. 2,430,054; Nov. 4.
- Ring release mechanism, Blocking. J. B. Polomski. 2,417,566; Mar. 18.
- Ringer, Electric. O. J. J. Bracke. 2,424,550; July 29.
- Rings, Manufacture of metallic. J. F. Babbitt and E. A. Roop. 2,428,540; Oct. 7.
- Rinse compositions. F. T. Peters. 2,422,255; June 17.
- Riser for bubble cap trays. H. C. Glitsch. 2,422,300; June 17.
- Rivet and applying same. A. Thorngren. 2,432,949; Dec. 16.
- Rivet bucking bar. J. E. Hewes. 2,417,490; Mar. 18.
- Rivet bucking tool. C. C. Braden. 2,421,987; June 10.
- Rivet, Explosive. G. D. Rogers. 2,429,239; Oct. 21.
- Rivet, Flush. J. de Swart. 2,424,602; July 29.
- Rivet setting tool. L. A. Amsberg. 2,423,956; July 15.
- Rivet with fluid expander therein. F. R. Higley. 2,415,560; Feb. 11.
- Riveting device. F. R. Zabel. 2,431,901; Dec. 2.
- Riveting tool. H. J. Yager. 2,430,383; Nov. 4.
- Rivets, Making expandable. C. T. Torresen. 2,426,422; Aug. 26.
- Roadbed, Railway. B. C. Monroe. 2,420,833; May 20.
- Road paving composition. W. W. Allen. 2,416,134; Feb. 18.
- Roasting apparatus, Coffee. W. C. Kline. 2,422,102; June 10.
- Roasting machine comprising roasting and cooling drums, Coffee. S. E. Richeson. 2,415,307; Feb. 4.
- Robe, Sport. A. W. Redlin. 2,433,626; Dec. 30.
- Rocker arm, Engine. H. C. Ronfeidt. 2,425,394; Aug. 12.
- Rocket fin assembly. H. J. Leberherz and L. A. Skinner. 2,427,217; Sept. 9.
- Rocket launching gun. N. M. Hopkins. 2,426,610; Sept. 2.
- Rocket shell. H. M. Renner. 2,426,239; Aug. 26.
- Rocket stabilizing fins. E. G. Uhl and L. A. Skinner. 2,430,896; Nov. 18.
- Rocking horse. M. J. Kendall. 2,421,270; May 27.
- Rocking horse. L. Schott. 2,416,850; Mar. 4.
- Rocking mixer. J. C. O'Connor. 2,418,982; Apr. 15.
- Rod: See—
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| Casting rod.        | Drill steel rod.         |
| Coated welding rod. | Fishing rod.             |
| Connecting rod.     | Hair-waving rod.         |
| Curling rod.        | Locking telescoping rod. |
| Curtain rod.        | Welding rod.             |
| Drill rod.          |                          |
- Rod and pipe clamp, Pump. W. S. Wilkinson. 2,417,533; Mar. 18.
- Rod assembling and clamping device, Multiple. D. E. Graham. 2,433,550; Dec. 30.
- Rod assembly, Connecting. F. B. Yingling. 2,428,602; Oct. 7.
- Rod boring machine, Connecting. C. A. Fulmer. 2,421,556; June 3.
- Rod for looms, Adjustable protection. H. Hoeber. 2,424,461; July 22.
- Rod for welding torches, Cleaning. H. D. Mattien. 2,429,581; Oct. 21.
- Rod forming mechanism. F. F. Ruau. 2,432,938; Dec. 16.
- Rod holder. R. L. Johnson and F. E. Buyken. 2,426,881; Sept. 2.
- Rod holder. R. T. Lawry. 2,427,466; Sept. 16.
- Rod mill with material recirculation means. K. Z. Huszar. 2,429,627; Oct. 28.
- Rod or pipe coupling. H. F. Richter. 2,420,683; May 20.
- Rodent trap. W. Luckton. 2,427,148; Sept. 9.
- Roll, Cloth expander. H. W. Birch. 2,415,864; Feb. 18.
- Roll control mechanism for looms, Cloth. C. R. Kronoff and A. J. Herard, Jr. 2,420,178; May 6.
- Roll for spinning and drawing frames, Spinning. E. J. Courtney. 2,417,239; Mar. 11.
- Roll for wire-stitching machines, Feed. R. Minkow. 2,428,316; Sept. 30.
- Roll paper dispensing container. J. L. Elsmann. 2,433,445; Dec. 30.
- Roll stand. E. W. Coffey. 2,415,809; Feb. 18.
- Roll with sectional surface elements, Crusher. J. T. Fowler. 2,414,591; Jan. 21.
- Roller assembly, Pad. M. E. Collins. 2,418,544; Apr. 8.
- Roller assembly, Pad. A. G. Zimmerman. 2,418,545; Apr. 8.
- Roller bearing. C. A. Ablett. 2,418,859; Apr. 15.
- Roller bearing. C. L. Eastburg. 2,420,820; May 20.
- Roller bearing. A. R. Spicacci. 2,418,322; Apr. 1.
- Roller bearing and cup spacer, Double row. R. M. Riblet. 2,418,095; Mar. 25.
- Roller, Cigarette. C. W. Roes. 2,415,910; Feb. 18.
- Roller, Corn picker. A. H. Siemen. 2,416,123-4; Feb. 18.
- Roller fender for pontoons. F. J. Walters and H. B. Nelson. 2,417,849; Mar. 25.
- Roller for belt conveyors, Idler. A. Searles and C. A. Swartz. 2,423,407; July 1.
- Roller for conveyor belts, Cushioning. A. Searles and C. A. Swartz. 2,433,789; Dec. 30.
- Roller, Furnace. K. W. Stookey. 2,428,344; Sept. 30.
- Roller, Guide. L. G. Williams. 2,430,417; Nov. 4.
- Roller leveller machine. L. R. Thomas. 2,429,142; Oct. 14.
- Roller paint-coating device. J. H. Millholland. 2,424,323; July 22.
- Roller, Printer's. D. E. Crews. 2,429,670; Oct. 28.
- Roller screen. F. Zega. 2,428,644; Oct. 7.
- Roller skate. S. M. Allred. 2,424,072; July 15.
- Roller skate. G. A. Reich. 2,430,533; Nov. 11.
- Roller skate device. A. Vincent. 2,430,037; Nov. 4.
- Roller skate wheel. F. J. Wagner. 2,432,105; Dec. 9.
- Roller stippler. A. T. Adams. 2,428,953; Oct. 14.
- Rollers, Making. C. C. Peck and N. E. Burdick. 2,429,293; Oct. 21.
- Rolling door. W. M. Weddell. 2,425,497; Aug. 12.
- Rolls, Apparatus for and method of cutting spiral grooves in grooved. W. T. Fields and E. M. D. Herold. 2,416,296; Feb. 25.
- Rolls for use in rolling mills and the like, Producing forming. V. M. Surerus. 2,428,301; Sept. 30.
- Rolls of sugar cane mills, Roughening. A. M. Simpson. 2,416,125; Feb. 18.



- Romper, Infant's. B. J. Peterson. 2,423,403; July 1.
- Roof. D. C. Goff. 2,422,010; June 10.
- Roof and floors for buildings, Combination. B. G. Goble. 2,427,273; Sept. 9.
- Roof and roofing sheets for use therein. H. W. Ashman. 2,417,899; Mar. 25.
- Roof, Car. D. J. Baillie. 2,431,533; Nov. 25.
- Roof for liquid storage tanks, Floating. J. H. Wiggins. 2,425,771; Aug. 19.
- Roof for liquid storage tanks, Floating. J. H. Wiggins. 2,430,592; Nov. 11.
- Roof gutter. A. H. Honikman. 2,419,996; May 6.
- Roof gutter assembly. H. N. Andrews. 2,421,978; June 10.
- Roof, Removable. B. S. Ferguson. 2,415,202; Feb. 4.
- Roof section, Prefabricated. P. B. Attiwell. 2,433,728; Dec. 30.
- Roof structure, Prestressed all-metal. G. M. Rapp. 2,427,021; Sept. 9.
- Roofing clip. P. W. Kridler. 2,418,076; Mar. 25.
- Roofing, Corrugated metal. L. R. Swope. 2,419,663; Apr. 29.
- Roofing. H. H. Doe. 2,428,361; Oct. 7.
- Roofing, Lap joint prepared. G. A. Fasold and W. V. Leibrock. 2,423,302; July 1.
- Roofing or surfacing material. S. L. Eason. 2,420,421; May 13.
- Roofs and their supports, Construction of. M. H. Thomas. 2,433,677; Dec. 30.
- Roofs, Stabilizing means for movable. W. G. Laird. 2,426,031; Aug. 19.
- Rooter. R. G. Le Tourneau. 2,422,490; June 17.
- Rope machine. W. E. Sommerville. 2,416,126; Feb. 18.
- Rope release. A. A. Schlaak. 2,432,125; Dec. 9.
- Rope release. A. F. Shaner. 2,432,342; Dec. 9.
- Rope server. H. Raymond. 2,414,169; Jan. 14.
- Rope splicing tool. E. H. Borgelt. 2,417,055; Mar. 11.
- Rosin from tall oil, Facilitating the separation of. R. C. Palmer. 2,432,332; Dec. 9.
- Rosin oils, Producing nonsiccative. R. S. A. Collonges and J. P. S. Vallée. 2,431,788; Dec. 2.
- Rosin, Polymerization of. C. A. Braidwood and A. G. Hovey. 2,419,185; Apr. 15.
- Rosin, Polymerization of. B. L. Hampton. 2,424,979; Aug. 5.
- Rosin-to-fatty acid ratio in mixtures of rosin and fatty acids, Increasing the. R. C. Palmer and A. F. Oliver. 2,432,333; Dec. 9.
- Rotameter, Pilotage. F. A. Reece. 2,416,772; Mar. 4.
- Rotary abrading tool. E. W. Hall. 2,417,645; Mar. 18.
- Rotary buck pad. L. N. Strike. 2,430,195; Nov. 4.
- Rotary buffing tool. E. E. Nordgren and R. W. Hagenstad. 2,423,992; July 15.
- Rotary clothes drier. F. L. Pollard. 2,415,908; Feb. 18.
- Rotary conveyor. E. R. Zadernach and W. W. Clarke. 2,415,201; Feb. 4.
- Rotary cutting tool. L. V. Colwell. 2,430,844; Nov. 11.
- Rotary cutting tool. E. G. Goehle. 2,422,404; June 17.
- Rotary Diesel engine. G. J. Wayland. 2,417,894; Mar. 25.
- Rotary disk cutter. D. B. Wicker. 2,426,757; Sept. 2.
- Rotary drum drying machine. A. C. Purpura. 2,416,405; Feb. 25.
- Rotary drum furnace. H. M. Griffoul. 2,423,018; June 24.
- Rotary engine. V. E. Sprouse. 2,413,796; Jan. 7.
- Rotary filter. H. G. Smith. 2,422,373; June 17.
- Rotary gear pump. E. Sibley. 2,428,181; Sept. 30.
- Rotary-grate burner. W. M. Fulton and S. R. Galyon. 2,426,348; Aug. 26.
- Rotary head oil burner. D. Hanson. 2,417,929; Mar. 25.
- Rotary hydraulic clutch. J. S. Becker. 2,417,964; Mar. 25.
- Rotary hydraulic pump. J. E. Morton. 2,427,224; Sept. 9.
- Rotary internal-combustion engine. J. E. E. Kolb. 2,432,426; Dec. 9.
- Rotary internal-combustion engine. W. H. Schroeder. 2,413,734; Jan. 7.
- Rotary lipstick holder. A. S. Mackey. 2,432,999; Dec. 23.
- Rotary machine. F. J. Young. 2,422,383; June 17.
- Rotary motor. A. Caminiti. 2,415,124; Feb. 4.
- Rotary motor. C. W. Gibbs. 2,418,829; Apr. 15.
- Rotary pay-off. R. S. Dunbar. 2,424,307; July 22.
- Rotary printing press. E. W. Worthington. 2,425,218; Aug. 5.
- Rotary printing press. E. W. Worthington. 2,429,442; Oct. 21.
- Rotary pump. W. Czarnecki. 2,423,639; July 8.
- Rotary pump. G. D. Hunter. 2,422,901; June 24.
- Rotary pump. L. M. Parine. 2,430,362; Nov. 4.
- Rotary pump. F. A. Quiroz. 2,429,368; Oct. 21.
- Rotary pump. P. M. Riede. 2,426,645; Sept. 2.
- Rotary roller pump. R. E. E. Jessop. 2,424,466; July 22.
- Rotary seal member. W. Gilbert, Sr. 2,422,007; June 10.
- Rotary selector switch. R. H. Bentley. 2,421,983; June 10.
- Rotary slide indicator. E. S. Russell. 2,415,849; Feb. 18.
- Rotary snap action mechanism. C. E. Buerki and H. L. Mekelburg. 2,426,667; Sept. 2.
- Rotary swaging machine. F. Patnaude. 2,433,152; Dec. 23.
- Rotary tool. J. L. Molner and A. Campula. 2,413,989; Jan. 7.
- Rotary turret selector. D. H. Mitchell. 2,423,152; July 1.
- Rotary type multiport valve. L. G. Daniels. 2,428,410; Oct. 7.
- Rotary type snap action electric switch. E. V. Platt and W. J. Aitken. 2,431,197; Nov. 18.
- Rotary valve. L. E. Mayer. 2,433,471; Dec. 30.
- Rotary vane type pump. G. E. Reilich. 2,417,568; Mar. 18.
- Rotary wing drive. H. H. Platt. 2,414,766; Jan. 21.
- Rotatable electric connector. M. R. Weissman. 2,423,276; July 1.
- Rotating annular hearth annealing furnace. D. P. Cooper. 2,417,063; Mar. 11.
- Rotating electric liquid switch. C. J. Aandewiel. 2,423,589; Oct. 7.
- Rotenoid compositions. L. B. Kilgore. 2,415,802; Feb. 18.
- Rotor assembly, Dynamoelectric machine. W. J. Morrill. 2,418,980; Apr. 15.
- Rotor, Bladed. A. Howard. 2,432,315; Dec. 9.
- Rotor brake. C. E. Tack and W. A. Helsten. 2,433,582; Dec. 30.
- Rotor construction, Intercepting. H. C. Hettelsater. 2,424,460; July 22.
- Rotor control in rotating wing aircraft. H. H. Platt. 2,432,677; Dec. 16.
- Rotor for centrifugal compressors. C. Meisser. 2,429,324; Oct. 21.
- Rotor for dynamoelectric machines, Laminated. D. H. Ware. 2,419,863; Apr. 29.
- Rotor for hydrodynamic machines. W. Ferris. 2,427,325; Sept. 9.
- Rotor for induction machines, Squirrel-cage. M. P. Winther. 2,421,860; June 10.
- Rotor for multistage turbo-machines. E. Meier. 2,427,614; Sept. 16.
- Rotor-slot ventilation for dynamo-electric machines. H. E. Criner and B. A. Rose. 2,425,997; Aug. 19.
- Rotor, Turbine. F. L. Prescott. 2,430,185; Nov. 4.
- Rotors for elastic fluid mechanism, Method and machine for generating. R. Birmann. 2,431,604; Nov. 25.
- Roughening the surface of ferrous elements. C. A. Escoffery and B. Werbel. 2,433,353; Dec. 30.
- Roulette wheel. E. B. Cintron. 2,429,344; Oct. 21.
- Rounds feeding device. D. W. Molins. 2,415,144; Feb. 4.
- Routing system, Telephone. R. C. Avery. 2,421,919; June 10.
- Roving device. S. A. and H. D. Basta and G. C. Spurr, Jr. 2,429,790; Oct. 28.
- Rubber and resorcinol-formaldehyde resol, Mixture of cyclized. H. E. Schroeder. 2,425,348; Aug. 12.
- Rubber and rubbery co-polymer of butadiene and styrene, Vulcanization of. P. C. Jones and R. A. Mathes. 2,424,175; July 15.
- Rubber article and process and form for making same. A. E. Sidnell. 2,428,127; Sept. 30.
- Rubber articles, Manufacture of ornamented. E. Gottschalk. 2,423,143; July 1.
- Rubber articles, Manufacture of vulcanized. H. E. Kretschmer. 2,421,625; June 3.
- Rubber bushed tire rod joints. A. Venditty. 2,425,138; Aug. 5.
- Rubber, Chemical modification of. G. H. Latham. 2,417,424; Mar. 18.
- Rubber coatings, Producing polysulfide. W. K. Schneider. 2,429,698; Oct. 28.
- Rubber composition and making same. S. L. Brams. 2,424,736; July 29.
- Rubber compositions and sheet wrapping material coated therewith, Stabilized cyclized. C. M. Carson. 2,431,028; Nov. 18.
- Rubber, Compounding of. F. L. McKennon and J. R. Lindquist. 2,420,788; May 20.
- Rubber derivatives. C. M. Carson. 2,414,018; Jan. 7.
- Rubber footwear with front pull tab. H. Malm. 2,433,135; Dec. 23.
- Rubber gloves and like articles, Making. C. J. Crowley. 2,429,122; Oct. 14.
- Rubber goods from latex, Manufacture of. K. M. Romick. 2,414,610-11; Jan. 21.
- Rubber goods, Making. C. J. Crowley. 2,429,121; Oct. 14.
- Rubber goods, Making. C. J. Crowley. 2,429,123; Oct. 14.
- Rubber goods, Method and apparatus for the manufacture of dipped. J. M. Auzin. 2,428,406; Oct. 7.
- Rubber hydrochloride compositions. W. Scott. 2,414,065; Jan. 7.
- Rubber in polar organic liquid media, Dispersion. C. H. Egan, A. J. Leydon, and J. P. Fahey. 2,433,656; Dec. 30.
- Rubber insulator for wires of electric fences. J. F. Verner. 2,429,857; Oct. 28.
- Rubber latex extended with an aqueous emulsion of a cracked gasoline distillate polymer resin. J. J. Miskel. 2,427,532; Sept. 16.
- Rubber, Manufacture of sponge. W. Binns. 2,426,430; Aug. 26.
- Rubber material, Producing expanded. L. Cooper and H. Pfeumer. 2,420,815; May 20.
- Rubber mounting. G. H. Kaemmerling. 2,422,683; June 24.



- Rubber, Ornamentation of. T. S. Reese. 2,416,844; Mar. 4.
- Rubber, Plasticizing of vulcanized. W. W. Evans. 2,414,145; Jan. 14.
- Rubber, Preservation of synthetic. L. H. Howland and B. A. Hunter. 2,419,354; Apr. 22.
- Rubber, Producing pigmented. V. C. Vesce. 2,419,512; Apr. 22.
- Rubber, Reclaiming. E. F. Sverdrup and J. C. Elgin. 2,415,449; Feb. 11.
- Rubber stabilized by an antioxidant extracted from fatty oils, Natural or synthetic. L. O. Buxton. 2,430,556; Nov. 11.
- Rubber to magnesium, Adhesion of. J. R. Rafter. 2,415,030; Jan. 28.
- Rubber to metal by adhesive polymer, Bonding. J. D. Calfee and D. W. Young. 2,423,755; July 8.
- Rubber, Treating. W. A. Gordon. 2,422,480; June 17.
- Rubber valve stem. J. C. Crowley. 2,424,802; July 29.
- Rubber vulcanizing machine. R. Dupont. 2,426,767; Sept. 2.
- Rubber with an amine, Reclaiming synthetic. R. V. Le Beau. 2,423,032; June 24.
- Rubberlike butadiene-1,3-polymerizates with phenol sulfides, Vulcanization of. G. M. Wolf and T. E. Deger. 2,422,156; June 10.
- Rubberlike material, Manufacture of articles of. C. R. Peaker. 2,414,391; Jan. 14.
- Rubberlike material, Manufacture of articles of. J. S. Rumbold. 2,414,394; Jan. 14.
- Rubberlike materials comprising fluoroprene, Synthetic. W. E. Mochele. 2,429,838; Oct. 28.
- Rubberlike substances and compounding material. C. G. La Crosse. 2,421,627; June 3.
- Rubbers, Improved synthetic. H. E. Schroeder and C. J. Mighon. 2,422,932; June 24.
- Rubbers with a fatty acid and live steam, Reclaiming synthetic. R. V. Le Beau. 2,423,033; June 24.
- Rubbery butadiene-styrene copolymer and chloroprene polymer, Blend of. J. F. Brovsky. 2,427,192; Sept. 9.
- Rubbery diene hydrocarbon polymers prior to the incorporation of compounding ingredients. H. E. Schroeder. 2,416,667; Mar. 4.
- Rubbery material into sheets, Continuously transforming a dispersion of a. W. F. Bixby. 2,424,648; July 29.
- Rubbing, sanding, or polishing block. J. L. Feild. 2,417,356; Mar. 11.
- Rudder control linkage. R. Stephens, Jr. 2,420,154; May 6.
- Ruffling attachment for sewing machines. V. J. Sigoda. 2,427,372; Sept. 16.
- Rug and making same. B. A. Greenberg. 2,414,198; Jan. 14.
- Rug construction, Separable. M. Newman. 2,432,485; Dec. 9.
- Rug, Woven fibre. E. E. Lambert. 2,418,215; Apr. 1.
- Rule cursor, Slide. J. J. Smidl. 2,418,910; Apr. 15.
- Rule, Slide. O. E. Batori. 2,429,212; Oct. 21.
- Rule, Slide. J. R. Bland. 2,422,649; June 17.
- Ruler, Proportional. C. S. Ost. 2,422,745; June 24.
- Runner for wheeled vehicles. R. L. Willenberg. 2,429,737; Oct. 28.
- Running board. C. S. Johnston. 2,433,050; Dec. 23.
- Rust-preventive composition. M. H. Kollen and M. T. Flaxman. 2,418,075; Mar. 25.
- Rust preventive composition. C. E. Wilson and M. L. Dodge. 2,421,672; June 3.
- Rutile, Manufacture of. C. A. Tanner, Jr., and W. J. Cauwenberg. 2,427,165; Sept. 9.
- Rutile seeding agents, Preparing. W. J. Cauwenberg and L. Aagaard. 2,433,597; Dec. 30.
- Rutile titanium dioxide, Production of. D. B. Pall. 2,426,788; Sept. 2.
- Rutin from buckwheat, Obtaining. E. L. Griffin, Jr. 2,425,094; Aug. 5.
- Rythmeter for determining sterility and fertility. G. L. Tilbrook. 2,418,207; Apr. 1.
- S-benzyl penicillamines and G-penaldates and making same, Reaction products of. H. M. Crooks, Jr. 2,430,455; Nov. 11.
- SO<sub>2</sub> from digester blowoff gases, Recovery of. H. A. Du Bois. 2,418,167; Apr. 1.
- Saccharification process. R. G. Dworschack and E. M. Burdick. 2,415,734; Feb. 11.
- Saccharosonic acids and salts thereof, Synthesis of. J. D. Surmatis and A. Ofner. 2,432,439; Dec. 9.
- Sack holder. C. E. Helms. 2,420,243; May 6.
- Saddle for motorcycles and the like. S. du Pont. 2,433,686; Dec. 30.
- Saddle, Turkey. H. L. Abramson. 2,416,726; Mar. 4.
- Sadiron. L. J. Koci. 2,415,795; Feb. 11.
- Sadiron assemblage, Separable. E. Witzel. 2,418,285; Apr. 1.
- Sadiron composition, Molded. L. Hoffman. 2,431,614; Nov. 25.
- Sadiron, Electric. B. M. Riker. 2,420,195; May 6.
- Safe embodied in a bathtub. G. G. Roberts. 2,429,487; Oct. 21.
- Safe lock. G. A. Cardell. 2,427,122; Sept. 9.
- Safe smoke pipe holder. H. Yost. 2,422,765; June 24.
- Safeguard, Flame failure. E. C. Thomson. 2,416,781; Mar. 4.
- Safety adjustable pipe stabbing board. C. L. Calhoun. 2,425,302; Aug. 12.
- Safety and locking device for a disconnecting switch. J. W. Gronbeck. 2,427,134; Sept. 9.
- Safety appliance. C. Farmer and J. K. Mack. 2,426,768; Sept. 2.
- Safety centering device, Electric. La V. Dickens. 2,433,743; Dec. 30.
- Safety control for liquid fuel burners, Pilot responsive. F. B. Aubert. 2,427,178; Sept. 9.
- Safety delivery receptacle. C. I. Cernuda. 2,423,372; July 1.
- Safety device for cold cathode lights or the like. W. R. Hathaway. 2,430,336; Nov. 4.
- Safety device for elevators or lifts. W. R. Pablich. 2,428,986; Oct. 14.
- Safety device for fire extinguisher valves. J. H. Cantlin. 2,418,817; Apr. 15.
- Safety device for looms. H. Bricout. 2,419,437; Apr. 22.
- Safety device for presses. J. M. Korkowski. 2,429,065; Oct. 14.
- Safety device for presses. P. N. Shaw. 2,427,928; Sept. 23.
- Safety device for radial flow elastic fluid turbines. O. A. Wiberg. 2,424,378; July 22.
- Safety device for twin rotor helicopters. H. H. Platt. 2,432,678; Dec. 16.
- Safety device for valve gear of expansible chamber motors. J. Naab and R. Ostwald. 2,423,516; July 8.
- Safety device, Journal. H. H. Wrightman and H. W. Opdyke. 2,424,203; July 15.
- Safety device, Optical. J. A. Long. 2,418,845; Apr. 15.
- Safety drill. J. Strother. 2,422,755; June 24.
- Safety fuse outlet plug. C. Mantilla and J. T. Graffin. 2,423,512; July 8.
- Safety gravity controlled valve. B. I. J. Stamm. 2,433,405; Dec. 30.
- Safety ground clamp. G. G. Truax. 2,414,180; Jan. 14.
- Safety hose coupling. D. Samiran. 2,413,730; Jan. 7.
- Safety joint. W. L. Church. 2,422,225; June 17.
- Safety lock. J. C. Goodson. 2,426,826; Sept. 2.
- Safety means for cranes. L. Alfano. 2,422,329; June 17.
- Safety mechanism. B. Cyr. 2,422,471; June 17.
- Safety mechanism. C. L. Denault. 2,426,001; Aug. 19.
- Safety pin. E. V. Abbott. 2,429,337; Oct. 21.
- Safety pin. R. R. Rundell. 2,416,644; Feb. 25.
- Safety power extension and junction box. C. O. Gallaher. 2,424,812; July 29.
- Safety razor. O. H. Clarke. 2,421,540; June 3.
- Safety razor. N. Testi. 2,424,260; July 22.
- Safety release clutch. R. G. Brown. 2,431,107; Nov. 18.
- Safety starter switch. O. A. Kangas. 2,422,909; June 24.
- Safety switch device. W. P. Lear. 2,425,038; Aug. 5.
- Safety valve. G. Auer. 2,426,808; Sept. 2.
- Safety valve. T. W. Bergquist. 2,414,794; Jan. 23.
- Safety valve. W. B. Kochner and L. T. Ward. 2,427,287; Sept. 9.
- Safety valve for hydraulic brakes. G. W. Kean. 2,429,820; Oct. 28.
- Safety wheel. F. W. Burger. 2,428,551; Oct. 7.
- Safety window lock. E. B. Evans. 2,429,873; Oct. 28.
- Salicylanilide, Aqueous dispersions of. J. E. Smith and P. J. Mitchell, Jr. 2,416,460; Feb. 25.
- Salicylates and preparing same, Basic lead. L. M. Kebrich. 2,421,706; June 3.
- Salt and process, Dustless. R. L. Comstock. 2,421,185; May 27.
- Salt, and product thereof, Treating. H. Hempel. 2,424,615; July 29.
- Salt bath furnace. A. F. Holden. 2,415,493; Feb. 11.
- Salt baths, Method and apparatus for the purification of fused. R. J. McNitt. 2,414,831; Jan. 28.
- Salt, Making. C. S. Robison. 2,418,427; Apr. 1.
- Salt mixtures, Making fused. S. B. Heath and C. A. Kuehl. 2,418,408; Apr. 1.
- Salt, Treating. J. Grant-Mackay. 2,432,915; Dec. 16.
- Salts containing lead phthalate and lead salts of aliphatic acids, Complex. A. Stewart, A. R. Pitrot, and L. M. Kebrich. 2,415,917; Feb. 18.
- Salts, Manufacture of nickel and cobalt. A. H. Du Rose. 2,431,997; Dec. 2.
- Salts of dinitrophenols, Alkylamine. J. N. Hansen and F. B. Smith. 2,416,309; Feb. 25.
- Salts of glutamic acid, Manufacture of. H. W. Dorn. 2,419,256; Apr. 22.
- Salts of N,N'-di-(sulfoalkyl)-4,4'-diaminodiphenylsulfones and preparation, Water soluble. F. L. Rose. 2,425,396; Aug. 12.
- Salts of organic acids, Production of aluminum. L. J. Edwards. 2,420,233; May 6.
- Salts of primary amines, Corrosion-inhibitors-nitrite. A. Wachter and N. Stillman. 2,432,839; Dec. 16.
- Salts of tertiary amines, Corrosion-inhibitors-nitrite. A. Wachter and N. Stillman. 2,432,840; Dec. 16.
- Salts, Preparation of guanidine. J. H. Paden and L. C. Lane, Jr. 2,417,441; Mar. 18.
- Salts, Preparation of guanidine. J. H. Paden and A. F. MacLean. 2,417,440; Mar. 18.
- Salts, Preparation of water-insoluble organic. A. I. Gebhart and J. B. Ross. 2,417,071; Mar. 11.
- Salts, Soluble amidine. G. Newbery and A. P. T. Easson. 2,424,325; July 22.
- Sands, Synthetic foundry. B. P. Wallace. 2,432,702; Dec. 16.



- Salts, Treatment of matte to recover metallic. M. J. Udy. 2,424,866; July 29.
- Salvage device. H. B. Davidson. 2,421,015; May 27.
- Sampler. C. W. Paulsen. 2,426,369; Aug. 26.
- Sampler, Material. T. R. Held. 2,421,938; June 10.
- Sampling apparatus, Automatic. V. C. Lorenz. 2,423,242; July 1.
- Sampling apparatus, Side wall. T. A. Banning, Jr. 2,426,335; Aug. 26.
- Sand blender. W. P. Muir and R. H. MacInnes. 2,428,852; Oct. 14.
- Sand box. E. Widener. 2,423,955; July 15.
- Sand feeding means. R. C. Kirk. 2,414,536; Jan. 21.
- Sand, or the like, Method and apparatus for cleaning or grading. A. B. Morris. 2,426,839; Sept. 2.
- Sandpaper block. A. B. Gerhan. 2,414,036; Jan. 7.
- Sandpaper or the like. A. J. Kaufman. 2,414,535; Jan. 21.
- Sand reclaiming system and method. Foundry. A. C. Christensen and J. J. Dvorak. 2,420,392; May 13.
- Sander. A. W. Laird. 2,418,587; Apr. 8.
- Sander, Floor. F. Hedemark. 2,431,613; Nov. 25.
- Sanding belt machine. H. S. Newton. 2,416,493; Feb. 25.
- Sanding machine. A. F. Krueger. 2,426,028; Aug. 19.
- Sanding machine, Endless abrasive belt. H. L. Miller. 2,424,044; July 15.
- Sanding or rubbing machine. A. C. Burleigh. 2,418,246; Apr. 1.
- Sanding pad. A. G. Decker. 2,417,680; Mar. 18.
- Sandal, Training. L. L. Bray. 2,427,251; Sept. 9.
- Sandal ramp. C. I. Tibiletti. 2,421,818; June 10.
- Sanitary garbage can. C. R. Gambler. 2,425,612; Aug. 12.
- Sanitary napkin. F. W. Schreiber. 2,418,907; Apr. 15.
- Sanitary nursing container. R. D. Beason. 2,432,496; Dec. 16.
- Sanitary pipe joint. W. Ebert. 2,424,682; July 29.
- Santonin-phenothiazine vermifuge. R. E. Lubbehusen. 2,422,106; June 10.
- Sash and sash guiding means. E. M. Trammell, Sr., and E. M. Trammel. 2,426,474; Aug. 26.
- Sash balance. D. Tappan. 2,415,614; Feb. 11.
- Sash balance. A. Viehweger. 2,425,659; Aug. 12.
- Sash construction, Removable. H. A. Kammerer. 2,430,772; Nov. 11.
- Sash lock. F. Granberg. 2,421,196; May 27.
- Sash lock. J. Lipani. 2,426,399; Aug. 26.
- Sausage covering and forming the same. J. N. Lesparre and R. E. Carlson. 2,428,495; Oct. 7.
- Saver for husking devices, Shelled corn. A. E. Johnson. 2,419,898; Apr. 29.
- Saw. H. P. Baumann. 2,415,271; Feb. 4.
- Saw assembly, Trim. S. Morton and H. D. Davidson. 2,427,470; Sept. 16.
- Saw blade. H. A. Pavitt. 2,422,561; June 17.
- Saw blades, Making. G. Stevens. 2,431,517; Nov. 25.
- Saw clamp. V. C. Crank. 2,428,556; Oct. 7.
- Saw, Constant tension jig. H. S. Carey. 2,424,077; July 15.
- Saw, Cutoff. R. O. Lundberg. 2,422,111; June 10.
- Saw filer. B. W. McCulley. 2,427,412; Sept. 16.
- Saw, Flying hot. R. H. Stevens and T. Wilson. 2,416,653; Feb. 25.
- Saw frame. K. H. Lenk. 2,432,626; Dec. 16.
- Saw holder. R. Dow. 2,432,866; Dec. 16.
- Sawhorse, Folding. C. O. Larson. 2,427,679; Sept. 23.
- Saw, Hydraulic drag. J. C. Greene, Jr. 2,414,519; Jan. 21.
- Sawing machine, Portable power-driven timber and log. U. S. Dill. 2,432,562; Dec. 16.
- Sawing machine, Tractor-mounted power-driven. J. R. Crawford. 2,432,726; Dec. 16.
- Sawmill dog assembly, Log-gripping and centering. C. W. Wallace. 2,428,185; Sept. 30.
- Sawmill, Portable traveling-saw. J. L. Ashman. 2,427,038; Sept. 9.
- Saw, Power operated meat. R. E. Grills. 2,430,504; Nov. 11.
- Saw set. D. W. Hively. 2,425,876; Aug. 19.
- Saw set, Crosscut. Z. F. Davis. 2,428,655; Oct. 7.
- Saw setting tool. R. S. Andrus. 2,432,269; Dec. 9.
- Saw-tooth setting device. C. G. Wahlstrom. 2,428,439; Oct. 7.
- Saw, Tractor-mounted, log-holding, power-operated. C. Nelson, Jr. 2,420,836; May 20.
- Saw, Tractor operated log and tree. A. F. Pfingsten. 2,423,047; June 24.
- Saw, Tree trimming and pruning. L. Flaa. 2,431,235; Nov. 18.
- Saw, Universal cut-off. G. Mooradian. 2,422,843; June 24.
- Saw wood-sawing machine, Overhead supported traveling. S. C. P. Poole. 2,430,247; Nov. 4.
- Scabbard. K. J. Brickey. 2,424,302; July 22.
- Scaffold. L. Aune. 2,423,167; July 1.
- Scaffold. R. A. Noble. 2,420,903; May 20.
- Scaffold, Billposting. R. J. Rusk. 2,415,658; Feb. 11.
- Scaffold bracket. V. F. Page. 2,425,896; Aug. 19.
- Scaffold caster. L. A. Reiner. 2,421,464; June 3.
- Scaffold, Collapsible. F. Hartmann. 2,431,933; Dec. 2.
- Scaffold horse, Collapsible. K. V. Wierowski. 2,427,540; Sept. 16.
- Scaffold, Ladder supported. C. Neff. 2,418,597; Apr. 8.
- Scaffold, Safety. C. K. Lamb. 2,414,538; Jan. 21.
- Scaffold support. R. E. Goranson. 2,415,207; Feb. 4.
- Scaffold unit. A. W. Harwell. 2,433,216; Dec. 23.
- Scaffolding. G. W. Causey. 2,415,461; Feb. 11.
- Scaffolding. G. W. Wetzel. 2,414,078; Jan. 7.
- Scaffolding device. H. S. Geer. 2,433,692; Dec. 30.
- Scaffolding, Portable. W. A. Pohrman. 2,416,950; Mar. 4.
- Scale. R. C. Haferl. 2,432,006; Dec. 2.
- Scale changing system for stroboscopic indicators. A. M. Skellett. 2,432,453; Dec. 9.
- Scale for typewriters, Platen. L. A. Meacham. 2,425,112; Aug. 5.
- Scale, Integrating weighing. H. O. Hem. 2,244,167; June 10.
- Scale remover and scale and corrosion preventer, Electrochemical. U. J. Brown. 2,415,576; Feb. 11.
- Scale, Weighing. R. S. Bohannon. 2,430,702; Nov. 11.
- Scale, Weighing. W. H. Ward. 2,415,570; Feb. 11.
- Scales for radio receivers, Logging. G. L. Grisdale and H. C. Norwood. 2,431,036; Nov. 18.
- Scanning and control system, Facsimile. A. C. Rustad. 2,422,587; June 17.
- Scanning device. A. Wolf. 2,417,227; Mar. 11.
- Scanning system. T. L. Dimond. 2,414,096; Jan. 14.
- Scarf, Convertible fur. H. A. Reich. 2,419,368; Apr. 22.
- Scarifier. R. L. Taylor. 2,416,654; Feb. 25.
- Scavenge system. A. Kalitinsky. 2,414,744; Jan. 21.
- Schedule apparatus, Production. F. B. Curtenius. 2,419,631; Apr. 29.
- Scoop, Anti-icing combustion air. L. A. Williams, Jr. 2,417,185; Mar. 11.
- Scoop, bulldozer, and scraper, Combination. B. F. Arps. 2,433,019; Dec. 23.
- Scope. H. M. Carscallen and R. F. Newton. 2,430,862; Nov. 18.
- Scouring apparatus. H. S. Gordon. 2,419,448; Apr. 22.
- Scouring chain. W. Hasendahl. 2,418,552; Apr. 8.
- Scouring device. N. S. Ellis. 2,424,747; July 29.
- Scouting device. O. Hoffman. 2,433,695; Dec. 30.
- Scouring device fabricated from tubular knit metallic mesh and making same. A. M. Goodloe. 2,427,274; Sept. 9.
- Scouring pad holder. J. W. Vaessen. 2,428,536; Oct. 7.
- Scrap cutter. J. Haller. 2,431,869; Dec. 2.
- Scraper. W. R. Anderson. 2,418,813; Apr. 15.
- Scraper, Carrying. H. D. Kadz. 2,418,554; Apr. 8.
- Scraper, Carrying. J. S. Walch. 2,422,813; June 24.
- Scraper, Carrying. P. Zakel. 2,425,664; Aug. 12.
- Scraper, Dirt. G. E. Daniels. 2,414,933; Jan. 28.
- Scraper, Earth moving. E. Meyer and T. J. Poppe. 2,418,041; Mar. 25.
- Scraper, Filament. J. Ehret, Jr. 2,421,319; May 27.
- Scraper for cleaning tubes, Fluid propelled articulated. C. M. Griffin. 2,418,509; Apr. 8.
- Scraper structure for liquid treatment tanks. E. A. Kamp. 2,427,092; Sept. 9.
- Scraper, Sucker rod. G. Kleiderlein. 2,421,564; June 3.
- Scraper, Utensil and plate. F. A. Cabill. 2,417,585; Mar. 18.
- Scraper, Wheeled. R. S. Hoar. 2,417,822; Mar. 25.
- Scrapping apparatus. G. E. Daniels. 2,425,601; Aug. 12.
- Screen: See—
- |                                      |   |
|--------------------------------------|---|
| Bed screen.                          | Heat screen.                            |
| Cotton screen.                       | Metal screen.                           |
| Delinting screen.                    | Oil well screen.                        |
| Detention screen.                    | Pulsating screen.                       |
| Discriminative alkali halide screen. | Raster screen.                          |
| Disintegrator screen.                | Roller screen.                          |
| Drum screen.                         | Soil disintegrating and sifting screen. |
| Frameless screen.                    | Vibratory rotary screen.                |
- Screen. E. A. Black. 2,424,219; July 22.
- Screen. D. M. G. Mainwal. 2,430,518; Nov. 11.
- Screen and closure package, Ventilator. H. F. Gustafson. 2,419,640; Apr. 29.
- Screen for hop separators, Supplemental. J. W. Orkney. 2,428,319; Sept. 30.
- Screen for television. J. L. Baird. 2,425,980; Aug. 19.
- Screen for use in air conditioning conduits, Flameproof. J. W. Ford. 2,417,408; Mar. 18.
- Screen printing. H. Bucklin. 2,421,410; June 3.
- Screen printing table. J. B. Kozloff. 2,423,391; July 1.
- Screen stencil machine with travelling orbital inker. N. Louft. 2,421,210; May 27.
- Screening and heavy media separation of particles of widely varying sizes, Combined. J. J. Bean. 2,431,984; Dec. 2.
- Screening device. G. A. Schuttler. 2,414,487; Jan. 21.
- Screening vat, Wood pulp. S. T. Orton, Jr. 2,426,897; Sept. 2.
- Screens in cathode-ray tubes, Manufacturing. C. S. Szegho. 2,423,626; July 8.
- Screw and driving tool, Pilot slot. O. W. Waarich. 2,431,628; Nov. 25.
- Screw cap. C. J. Salvo. 2,414,395; Jan. 14.
- Screw control, Automatic. L. E. Farrell. 2,430,458; Nov. 11.
- Screw conveyor construction. R. E. Bressler. 2,418,540; Apr. 8.



- Screw driver. T. D. Crawford. 2,423,296; July 1.  
Screw driver. J. B. Goldberg. 2,426,197; Aug. 26.  
Screw driver. M. A. and G. E. West. 2,417,225; Mar. 11.  
Screw driver and the like. R. J. Campsmith. 2,430,044; Nov. 4.  
Screw driver, Ratchet torque. W. Storrie. 2,417,402; Mar. 11.  
Screw driver, Torque measuring. H. W. Bunting. 2,429,450; Oct. 21.  
Screw for brake bands, Stabilizers. R. R. Beezley. 2,423,575; July 8.  
Screw roller, Automatic divergent sorting and gauging. M. Lawton and P. Rosenberg. 2,425,478; Aug. 12.  
Screw, Self-centering. W. L. Todd. 2,418,960; Apr. 15.  
Screw, Self-threading and locking. C. D. Fator. 2,419,555; Apr. 29.  
Screw, Tappet. C. E. Johnson. 2,427,560; Sept. 16.  
Screw thread analyzer gage. P. W. Johnson. 2,432,160; Dec. 9.  
Screw-thread gage. G. Hohwart. 2,419,263; Apr. 22.  
Screw threading machine. W. Plagemann. 2,422,849; June 24.  
Screw threads, Grinding. G. Stewart. 2,420,504; May 13.  
Screw top container. H. Sebell. 2,414,420; Jan. 14.  
Screw top jar wrench. H. H. Gary. 2,431,550; Nov. 25.  
Scribing machine, Gang. L. L. Pierce. 2,423,564; July 8.  
Scrubbing implement. E. W. Hall. 2,427,137; Sept. 9.  
Scrubbing machine, Rotary finger. H. Singer. 2,424,509; July 22.  
Scrubbing machine with adjustable endless belt, Endless belt floor. C. L. Osenbaugh. 2,430,409; Nov. 4.  
Scum overflow for clothes washing machines. D. R. Neal. 2,421,803; June 10.  
Scupper connection. G. Parry. 2,428,381; Oct. 7.  
Sea water fractionator. W. F. Borgerd and J. S. Palmer. 2,419,881; Apr. 29.  
Seal. W. Artzt and M. Rubino. 2,422,879; June 24.  
Seal. F. Bottomley. 2,426,174; Aug. 26.  
Seal. R. W. Sloane. 2,423,052; June 24.  
Seal, Air pressure. T. Aamodt and H. A. Hilsinger, Jr. 2,430,445; Nov. 11.  
Seal and gasket assembly. J. R. Snyder and J. F. Norton. 2,417,400; Mar. 11.  
Seal, and making, Ignitron. D. E. Marshall. 2,420,829; May 20.  
Seal and pressure plates and a spring therefor, Shaft. M. Katcher. 2,430,426; Nov. 4.  
Seal and stop mechanism, Meter. F. W. Guibert and F. B. Fuller. 2,417,108; Mar. 11.  
Seal, Bearing. S. M. Cooper. 2,419,885; Apr. 29.  
Seal, Bearing. H. A. Land and W. O. Bechman. 2,414,600; Jan. 21.  
Seal construction. B. Dick. 2,424,225; July 22.  
Seal construction. O. G. Odelius. 2,420,718; May 20.  
Seal cooling mechanism, Hot. J. D. Wells. 2,420,763; May 20.  
Seal, Diaphragm shaft. P. Endebak. 2,423,642; July 8.  
Seal, drip tube, and dispensing unit, Combination. J. Shaw. 2,433,242; Dec. 23.  
Seal, Flexible. K. A. Beler. 2,419,385; Apr. 22.  
Seal, Fluid. J. F. Joy. 2,417,828; Mar. 25.  
Seal, Fluid. R. D. Snyder. 2,432,654; Dec. 16.  
Seal for containers. L. L. Werth. 2,428,951; Oct. 14.  
Seal for film packs, Light-excluding. T. McG. Aiken. 2,423,573; July 8.  
Seal for floating tank roofs, Secondary. J. H. Wiggins. 2,427,171; Sept. 9.  
Seal for high pressures, Valve seat. T. R. Smith. 2,414,908; Jan. 28.  
Seal for hydraulic turbines and pumps. R. Lowy. 2,421,841; June 10.  
Seal for journal boxes. W. Blackmore. 2,415,574; Feb. 11.  
Seal for pipe joints. W. J. Sutton and B. C. Simpson. 2,421,659; June 3.  
Seal for pistons and the like. F. B. Hunter. 2,427,787; Sept. 23.  
Seal for radial flow turbines or compressors. P. G. Lange. 2,417,693; Mar. 18.  
Seal for rotary shafts. G. E. Pasco. 2,419,588; Apr. 29.  
Seal for submersible pumps, Shaft. V. A. Hoover. 2,430,509; Nov. 11.  
Seal guard ring. T. R. Smith. 2,420,104; May 6.  
Seal, High-pressure. O. A. Kehle. 2,427,789; Sept. 23.  
Seal, Hydraulically balanced. P. N. Curry. 2,430,918; Nov. 18.  
Seal, Journal. J. F. Joy. 2,415,887; Feb. 18.  
Seal, Liquid cooled. R. G. Koshong. 2,432,684; Dec. 16.  
Seal, Lubricant. R. W. Groot. 2,418,707; Apr. 8.  
Seal, Oil. R. S. Gregoire. 2,417,107; Mar. 11.  
Seal, Pipe. A. J. Penick. 2,426,370; Aug. 26.  
Seal, Piston. J. P. Phillips and L. F. Ridder, Jr. 2,429,426; Oct. 21.  
Seal, Pump. R. R. Curtis. 2,427,716; Sept. 23.  
Seal, Rotary. H. A. Strickland, Jr. 2,425,211; Aug. 5.  
Seal, Rotary shaft. I. S. Brumagim. 2,418,620; Apr. 8.  
Seal, Self-riveting. O. M. Polkingharn. 2,420,094; May 6.  
Seal, Shaft. M. L. Bettecher. 2,419,623; Apr. 29.  
Seal, Shaft oil. F. D. Frisby and M. W. Marien. 2,420,040; May 6.  
Seal, Syringe plunger. W. E. Hinds. 2,419,401; Apr. 22.  
Seal, Weather. S. J. Czerwiczniak. 2,417,470; Mar. 18.  
Sealed apparatus for degreasing and drying articles. R. Cosway. 2,416,571; Feb. 25.  
Sealer, Vacuum. G. L. Busby. 2,416,690; Mar. 4.  
Sealing arrangement, Door. W. Young. 2,421,400; June 3.  
Sealing assembly. L. G. Saywell. 2,428,041; Sept. 30.  
Sealing composition. P. W. Millelot, Jr. 2,419,224; Apr. 22.  
Sealing compound applying apparatus. F. Kastel. 2,419,951; May 6.  
Sealing device. C. H. Jaxtheimer. 2,419,079; Apr. 15.  
Sealing device. J. F. Joy. 2,415,888; Feb. 18.  
Sealing device. F. L. D. Lord. 2,422,248; June 17.  
Sealing device. J. W. McConaghy. 2,418,185; Apr. 1.  
Sealing, Exhausting and cold weld. L. P. Garner and W. K. Bricker. 2,427,597; Sept. 16.  
Sealing high-tension wires in sockets. W. O. Henschke. 2,419,683; Apr. 29.  
Sealing machine. C. H. Barr. 2,419,475; Apr. 22.  
Sealing machine. J. N. Van Epps, J. W. Kraus, and F. Magyar. 2,433,176; Dec. 23.  
Sealing means for floating roofs. R. C. Ulm. 2,426,755; Sept. 2.  
Sealing means for luggage case sections. A. A. Ritter. 2,415,220; Feb. 4.  
Sealing means for optical instruments. W. F. Peck. 2,421,805; June 10.  
Sealing means for submersible electric motor-pump units. J. E. Piccardo. 2,418,194; Apr. 1.  
Sealing means for universal joints. D. E. Rice. 2,432,803; Dec. 16.  
Sealing nut. E. M. Morehouse. 2,417,262; Mar. 11.  
Sealing of wires into glass. H. Wolfson and S. C. Shepard. 2,428,059; Sept. 30.  
Sealing strip and structure with sealing strip. W. F. Fuqua. 2,432,879; Dec. 16.  
Sealing tool for fastening the overlapped ends of bands. J. M. Gerrard and P. S. Banff. 2,432,306; Dec. 9.  
Sealing unit. H. A. Alexanderson and H. J. Wolf. 2,414,219; Jan. 14.  
Seam and making the same. K. A. Stritter. 2,418,204; Apr. 1.  
Seam for polyvinyl resinous coated fabrics, Producing a waterproof. H. H. Haman and J. A. Ritzler. 2,422,676; June 24.  
Seam for woven wire fabric. D. C. Dilley and R. R. McGregor. 2,421,601; June 3.  
Seam pressing machine. E. Quinn and F. E. Muzzey. 2,419,596; Apr. 29.  
Seam pressing machine. M. H. Roske. 2,419,594; Apr. 29.  
Seaming and pinking machine, Combined. J. Mann. 2,427,867; Sept. 23.  
Seaming machine. W. J. Geist. 2,433,691; Dec. 30.  
Seams formed in shoe parts, Pressing. M. H. Roske. 2,419,595; Apr. 29.  
Sear for rifles, Front. S. Schiff. 2,429,650; Oct. 28.  
Sear release for firearms, Automatic. C. W. Robbins. 2,427,304; Sept. 9.  
Seat—  
Adjustable motor vehicle seat. Vehicle seat.  
Adjustable seat. Vertically adjusted seat.  
Child's toilet seat. Window seat.  
Seat adjuster. E. G. Simpson. 2,417,523; Mar. 18.  
Seat and toilet for locomotive engineers, Combination. J. J. Lynett. 2,431,264; Nov. 18.  
Seat attachment for bathtubs. W. H. Brett. 2,428,547; Oct. 7.  
Seat back construction. W. F. Bartlett and M. J. Grzenia. 2,420,220; May 6.  
Seat bed, Convertible pullman. P. P. Beby. 2,424,139; July 15.  
Seat control, Reclining. W. E. Morey and R. G. Nichols. 2,425,632; Aug. 12.  
Seat covers, Retaining means for toilet. E. H. Lundgren. 2,431,263; Nov. 18.  
Seat for mechanical seals. R. D. Snyder, E. J. Coleman, and C. E. Schmitz. 2,425,209; Aug. 5.  
Seat having a resiliently mounted back rest. J. M. Caughey. 2,419,884; Apr. 29.  
Seat, particularly for motor vehicles, Adjustable. R. N. Wright. 2,430,656; Nov. 11.  
Seat spring. J. M. Caughey. 2,418,697; Apr. 8.  
Seat stabilizer. T. Ulrich. 2,420,728; May 20.  
Seat structure, Convertible. A. L. Nelson. 2,418,787; Apr. 8.  
Seat with leg support, Vehicle. G. Trautvetter. 2,432,072; Dec. 2.  
Seating and facing tool. Z. W. Kelley. 2,420,601; May 13.  
Seating arrangement and construction. E. J. W. Ragsdale and J. Ledwinka. 2,431,661; Nov. 25.  
Seating attachment, Child's. M. Ross. 2,432,936; Dec. 18.  
Secondary emissive shell resonator tube. C. V. Parker. 2,416,303; Feb. 25.  
Secret facsimile system. C. J. Young. 2,425,076; Aug. 5.  
Section mold. H. L. Baker. 2,420,766; May 20.  
Sectional hot top. E. Marburg. 2,433,775; Dec. 30.  
Sectional hot top. L. D. Woodworth. 2,433,803; Dec. 30.  
Securement means for shingle and siding units. F. S. Small. 2,413,794; Jan. 7.  
Securing device. W. H. J. Brock. 2,415,232; Feb. 4.



- Securing heels to shoes. E. F. Small. 2,423,908; July 15.  
 Securing means. F. L. Davis. 2,429,926; Oct. 28.  
 Securing means for antiskid devices. W. A. Hayes. 2,417,752; Mar. 18.  
 Securing means for or fastener for covers of burial vaults. R. Adam. 2,415,398; Feb. 11.  
 Sediment testing device. B. L. Kinyon. 2,414,044; Jan. 7.  
 Sedimentation chamber for separating solids from liquids having flow distributing means therein. A. C. Lind. 2,428,756; Oct. 7.  
 Seed cleaner. A. J. V. Ware. 2,433,178; Dec. 23.  
 Seed for solvent extraction, Flaking sunflower. E. Levin. 2,417,507; Mar. 18.  
 Seed from pest attack, Immunizing. O. B. Lean and P. W. Brian. 2,417,115; Mar. 11.  
 Seed planting machine. J. A. Phillips. 2,429,841; Oct. 28.  
 Seed treating and handling device. H. J. Kemp. 2,422,019; June 10.  
 Seeder. L. B. Bushue. 2,415,577; Feb. 11.  
 Segment delivering. W. L. Gibboney. 2,428,112; Sept. 30.  
 Segmental cable. G. W. Zink. 2,432,603; Dec. 16.  
 Seismic amplifying system. H. Hoover, Jr. 2,430,983; Nov. 18.  
 Seismic exploration with control of directional sensitivity. A. Wolf. 2,431,600; Nov. 25.  
 Seismic surveying. J. O. Parr. 2,424,705; July 29.  
 Seismometer. H. Hoover, Jr. 2,417,077; Mar. 11.  
 Seismometer, Position dampened. J. F. Tolk. 2,424,724; July 29.  
 Selecting mechanism. N. M. Edson and E. B. Hoback. 2,415,941; Feb. 18.  
 Selective apparatus, Frequency. W. P. Mason. 2,423,459; July 8.  
 Selective constant-speed induction motor. M. Morrison. 2,427,920; Sept. 23.  
 Selective control for arming bombs and the like. La V. E. Quinnell, J. C. Koonz, and R. H. Severance. 2,430,617; Nov. 11.  
 Selective electrical circuit. B. M. Hadfield. 2,416,096; Feb. 18.  
 Selective system. J. T. Neiswenter. 2,425,820; Aug. 19.  
 Selective transmitting, receiving, and oscillator circuit. K. Singer. 2,421,468; June 3.  
 Selector and calibrator, Frequency. P. S. Gay. 2,418,972; Apr. 15.  
 Selector, Count. G. D. Hulst, Jr. 2,428,913; Oct. 14.  
 Selector for automatic phonographs. M. W. Kenney and H. H. Davis. 2,431,646; Nov. 25.  
 Selector for automatic phonographs. M. R. Winkler. 2,416,463; Feb. 25.  
 Selector, Name. H. R. Montague. 2,425,197; Aug. 5.  
 Selector rod holder. R. Connor. 2,427,046; Sept. 9.  
 Selector valve. R. R. Curtis. 2,415,466; Feb. 11.  
 Selector valve assembly. J. A. Lauck and R. G. Holt. 2,431,944; Dec. 2.  
 Selenium cell and lacquer therefor. O. Saslaw. 2,433,402; Dec. 30.  
 Selenium coating by immersion. M. C. Bloom. 2,426,173; Aug. 26.  
 Selenium depositing machine. C. S. Smith, Jr., and S. Blumenthal. 2,423,051; June 24.  
 Selenium, Electrodeposition. M. C. Bloom. 2,414,438; Jan. 21.  
 Selenium element and method. A. J. Miller and O. J. Mueller. 2,424,995; Aug. 5.  
 Selenium element and treatment. A. von Hippel and J. H. Schulman. 2,429,655; Oct. 28.  
 Selenium paste and making and applying it. O. Saslaw. 2,433,401; Dec. 30.  
 Selenium, Purification of. D. Gardner. 2,414,295; Jan. 14.  
 Self-adjusting stop means for the shoes of internal-expanding brakes. L. H. Mould. 2,421,802; June 10.  
 Self-adjusting sump pipe. P. E. Aden. 2,429,541; Oct. 21.  
 Self-adjusting unit for the electric heating of liquids. G. C. Wicks. 2,428,445; Oct. 7.  
 Self-classifying ball mill. J. H. Dryer. 2,432,610; Dec. 16.  
 Self-closing container. E. Moen. 2,433,142; Dec. 23.  
 Self-feeder for hogs. A. Amstutz. 2,429,542; Oct. 21.  
 Self-feeding soldering tool. P. A. Lang. 2,432,428; Dec. 9.  
 Self-locking clip. R. E. Eggert and L. C. Brose. 2,417,245; Mar. 11.  
 Self-locking clip. E. M. Morehouse. 2,415,517; Feb. 11.  
 Self-locking fastener. C. E. Warner. 2,429,113; Oct. 14.  
 Self-locking gas valve. R. L. Midgett. 2,415,701; Feb. 11.  
 Self-locking hook. J. D. Petouhoff. 2,429,769; Oct. 28.  
 Self-locking insert. C. L. Stancliff. 2,429,778; Oct. 28.  
 Self-locking mold. K. J. Kopplin. 2,420,709; May 20.  
 Self-operated forced air heater. H. J. DeN. McCollum. 2,415,064; Jan. 28.  
 Self-priming centrifugal pump. A. C. Durdin, Jr. 2,420,420; May 13.  
 Self-priming pump. F. W. Heckert and R. R. Curtis. 2,430,337; Nov. 4.  
 Self-propelled vehicle. A. S. Stokes. 2,423,266; July 1.  
 Self-quiz device. C. Lorber. 2,422,491; June 17.  
 Self-regulating high-frequency generator. F. G. Albin. 2,431,902; Dec. 2.  
 Self-reversing electric motor. E. Abrahamson. 2,432,464; Dec. 9.  
 Self-righting dump car. P. Anderson. 2,422,283; June 17.  
 Self-sealing fuel tank. P. J. Dasher, R. A. Crawford, and R. S. Colley. 2,425,514; Aug. 12.  
 Self-starting single-phase motor. A. O. Jørgensen. 2,432,573; Dec. 16.  
 Self-steering device. H. F. Rost, K. H. Thunell, S. D. Vigren, and P. H. E. Claesson. 2,424,193; July 15.  
 Self-synchronized saw-tooth generator. W. J. Poch. 2,418,425; Apr. 1.  
 Self-synchronous motion reproducing system. J. D. Peterson. 2,418,193; Apr. 1.  
 Self-synchronous system for transmitting angular motion. A. P. Adamson. 2,420,160; May 6.  
 Self-threading device for projectors. M. Dietrich. 2,420,587; May 13.  
 Self-threading dispenser. R. S. Avery. 2,419,809; Apr. 29.  
 Semi-automatic riveting device. J. F. Cote. 2,415,811; Feb. 18.  
 Sender, Key control. T. L. Dimond. 2,430,457; Nov. 11.  
 Sensing means for business machines. R. W. Pitman. 2,429,730; Oct. 28.  
 Separable electrical connector. W. L. Garberding. 2,433,358; Dec. 30.  
 Separating mixtures, Method and apparatus of. J. R. Bowman. 2,427,042; Sept. 9.  
 Separation and purification of stereoisomeric hydrophenanthrene carboxylic acids and cyclic homologues thereof. K. Miescher and J. Heer. 2,429,166; Oct. 14.  
 Separation of stones from peas, Hydraulic. J. A. Cleveland. 2,422,657; June 24.  
 Separator: See—  
   Ash and dust separator. Leaf separator.  
   Belt type solid separator. Oil separator.  
   Centrifugal separator. Solids separator.  
   Cream separator. Steam separator.  
   Crude oil separator. Synchronizing-signal separator.  
   Egg separator. Vortex dust separator.  
   Gas separator. Wave separator.  
   Grit separator.  
 Separator and producing the same, Wood battery. E. Farber. 2,422,003; June 10.  
 Separator discharge pans, Making. R. W. Muerle. 2,427,299; Sept. 9.  
 Separator divided by partitions into inlet, intermediate, and outlet section, Drum-shaped oil. C. B. Karlson, S. G. Benham, and W. A. Gehle. 2,422,555; June 17.  
 Separator, especially for carburetor air intake ducts, Dust. T. H. Chilton and C. E. Lapple. 2,425,508; Aug. 12.  
 Separator for potatoes, Gravity liquid. F. L. Lathrop. 2,426,398; Aug. 26.  
 Separator for removing finely divided magnetic material from liquids, Magnetic. W. Byrd, Jr. 2,430,157; Nov. 4.  
 Separator for semi-fixed ammunitions, Shell. E. W. De Moore. 2,417,457; Mar. 18.  
 Separator having a collecting pipe and a stratification pipe therebelow, Oil and water. W. L. Olivo and J. B. Terrell. 2,423,793; July 8.  
 Separator having vertically spaced oil and water outlets, Oil and water. C. R. Briggs. 2,428,927; Oct. 14.  
 Separator in a refrigeration system, Oil. J. R. Zwickl. 2,418,962; Apr. 15.  
 Separator loading machine. J. S. Garden. 2,416,578; Feb. 25.  
 Separator with means for controlling discharge therefrom, Centrifugal. A. H. Schutte. 2,431,142; Nov. 18.  
 Separators, Making battery. E. C. Uhlig. 2,422,148; June 10.  
 Sequential electric switching system. F. R. Jackson, Jr. 2,424,826; July 29.  
 Serrating tool. R. E. Morrisette. 2,419,189; Apr. 15.  
 Service apparatus for automobiles. C. W. Ginter. 2,430,608; Nov. 11.  
 Service cabinet. E. G. Johansson. 2,423,938; July 15.  
 Servo cam follower. A. V. Bedford. 2,415,157; Feb. 4.  
 Servo mechanism. J. H. Pratt and A. H. G. Girling. 2,432,798; Dec. 16.  
 Servomotor. R. H. Hill. 2,426,505; Aug. 26.  
 Servomotor. S. V. Maddox. 2,429,189; Oct. 14.  
 Servomotor, Fluid pressure. T. H. Thomas. 2,421,726; June 3.  
 Servomotor, Follow-up pressure fluid. A. G. Larson. 2,418,129; Apr. 1.  
 Servomotor system, Antihunt electrical. W. L. Shaffer. 2,426,711; Sept. 2.  
 Servomotor system, Two-phase. E. R. Wolfert and J. H. Broadbent. 2,429,657; Oct. 28.  
 Servomotor with follow-up device, Suction. A. D. Metsger. 2,423,843; July 15.  
 Servomotor with rotating cylinder and fluid transfer means adapted therefor, Hydraulic. R. Stevenson. 2,420,626; May 13.  
 Servo system control, Hydraulically synchronized. E. Dawson. 2,426,986; Sept. 9.  
 Setback switch. J. W. Busacker and R. L. Maneval. 2,431,027; Nov. 18.  
 Set-back switch. R. G. Ferris. 2,419,828; Apr. 29.  
 Set, Tool and handle. F. A. Lucia. 2,424,404; July 22.  
 Setting machine, Timber. H. S. Gay and T. V. Maynard. Re. 22,927; Oct. 14.



- Settling tank. J. A. Montgomery. 2,418,950; Apr. 15.  
 Severing apparatus, Metal. W. S. Knight and W. A. Lindstrom. 2,415,746; Feb. 11.  
 Severing tape dispenser. W. H. Stewart and E. Martin. 2,430,744; Nov. 11.  
 Sewage disposal. J. O'Donnell. 2,420,326; May 13.  
 Sewage disposal apparatus comprising a septic tank and an evaporating tank having a vent. L. J. Haviland. 2,432,887; Dec. 16.  
 Sewage disposal equipment. J. W. Van Denburg. 2,430,749; Nov. 11.  
 Sewage disposal system. L. C. Short and E. A. Iwen. 2,419,693; Apr. 29.  
 Sewage treatment. W. H. Green. 2,419,492; Apr. 22.  
 Sewer flood control, Automatic. A. Gordon. 2,431,640; Nov. 25.  
 Sewing accessory. J. MacKay. 2,432,914; Dec. 16.  
 Sewing cement bonded seams, Method and machine for. J. P. Fredericksen. 2,418,169; Apr. 1.  
 Sewing frame. E. Beaton. 2,417,449; Mar. 11.  
 Sewing machine. F. Ashworth. 2,420,643; May 20.  
 Sewing machine. R. Becker. 2,415,383; Feb. 4.  
 Sewing machine. C. S. Best. 2,420,695-7; May 20.  
 Sewing machine. C. S. Best. 2,422,820; June 24.  
 Sewing machine. C. S. Best. 2,428,347; Oct. 7.  
 Sewing machine. C. S. Best. 2,430,207; Nov. 4.  
 Sewing machine. F. W. Breul. 2,424,793; July 29.  
 Sewing machine. B. Bryson. 2,419,006; Apr. 15.  
 Sewing machine. N. V. Christensen. 2,424,798; July 29.  
 Sewing machine. N. V. Christensen. 2,432,285; Dec. 9.  
 Sewing machine. C. F. Goforth. 2,414,227; Jan. 14.  
 Sewing machine. R. K. Hohmann. 2,430,932; Nov. 18.  
 Sewing machine. C. L. Knott. 2,433,053; Dec. 23.  
 Sewing machine. H. A. Landroche. 2,424,991; Aug. 5.  
 Sewing machine. H. J. Le Vesconte and A. M. Schweda. 2,424,102; July 15.  
 Sewing machine. T. E. Monroe. 2,426,636; Sept. 2.  
 Sewing machine. O. Quist. 2,414,168; Jan. 14.  
 Sewing machine. C. E. Rubel. 2,423,996; July 15.  
 Sewing machine. G. Sauer. 2,418,429; Apr. 1.  
 Sewing machine. G. Sauer. 2,430,369; Nov. 4.  
 Sewing machine. E. N. Simmons. 2,423,259; July 1.  
 Sewing machine. C. C. Smith. 2,430,370; Nov. 4.  
 Sewing machine. K. A. Stritter. 2,430,087; Nov. 4.  
 Sewing machine. J. H. Van Vorst. 2,425,970; Aug. 19.  
 Sewing machine. F. F. Zeier. 2,428,762; Oct. 7.  
 Sewing machine and lubricating the same, Lock stitch. George Sauer. 2,424,855; July 29.  
 Sewing machine attachment. F. Gegauf. 2,424,025; July 15.  
 Sewing machine, Buttonhole. W. E. Nichols. 2,421,712; June 3.  
 Sewing machine feed device. E. W. Loisselle. 2,427,467; Sept. 16.  
 Sewing machine, Lockstitch shoe. F. Ashworth. 2,426,662; Sept. 2.  
 Sewing machine, Shoe. C. L. Knott. 2,431,404; Nov. 25.  
 Sewing machine, Shoe. G. A. Miner. 2,416,767; Mar. 4.  
 Sewing machine, Shoe sole. M. M. Walker. 2,416,784; Mar. 4.  
 Sewing machine support. C. S. Best. 2,420,698; May 20.  
 Sewing machine support. C. S. Best. 2,430,208; Nov. 4.  
 Sewing machine table board. J. W. Fite and P. M. French. 2,419,064; Apr. 15.  
 Sewing machine, Wax thread. O. R. Haas. 2,415,484; Feb. 11.  
 Sewing machine with adjustable cloth feed-motion. M. Liniger. 2,414,652; Jan. 21.  
 Sewing mechanism. M. Pedersen. 2,422,208; June 17.  
 Sewing seam and making same. J. H. Schwelch. 2,426,057; Aug. 19.  
 Shackle. N. J. MacKenzie. 2,420,256; May 6.  
 Shade roller. A. Morpeth. 2,427,298; Sept. 9.  
 Shaft and bearing support therefor in walking dragline machine, Driving. J. W. Page. 2,420,675; May 20.  
 Shaft bearing. F. B. Halford. 2,423,973; July 15.  
 Shaft bearing construction. G. H. Koch. 2,427,947; Sept. 23.  
 Shaft coupling. G. Slowig. 2,423,568; July 8.  
 Shaft drive for the flexible conveyor of shuttle cars, Articulated. C. F. Ball. 2,426,980; Sept. 9.  
 Shaft fabricating machine, Flexible. W. P. Uhler. 2,416,076; Feb. 18.  
 Shaft grinding machine and the like. S. A. Stolberg. 2,433,717; Dec. 30.  
 Shaft seal. H. C. Hamilton. 2,424,690; July 29.  
 Shaft seal assembly. F. Bottomley. 2,429,953; Oct. 28.  
 Shaft sealing ring. F. D. Frisby. 2,420,039; May 6.  
 Shaker and dispensing container therefor, Toilet powder. E. A. Poillon. 2,418,952; Apr. 15.  
 Shaker, Condiment. R. R. Collins. 2,431,543; Nov. 25.  
 Shaker for burring small parts. D. T. Haines, Sr. 2,423,019; June 24.  
 Shaker, Salt. G. J. Staab. 2,417,273; Mar. 11.  
 Shaker, Salt-and-pepper. F. R. Hale. 2,424,978; Aug. 5.  
 Shallow well self-priming pump. C. J. Bergh. 2,433,021; Dec. 23.  
 Shampoo cap. D. Vincelle. 2,424,129; July 15.  
 Shampooing apparatus. A. R. Czajcinski and H. R. Sparks. 2,425,513; Aug. 12.  
 Shaping machine. F. F. Stelz. 2,420,759; May 20.  
 Shaping mold. J. H. Brown. 2,419,532; Apr. 29.  
 Shaping or setting machine for metal bands or tire rims. L. B. Green. 2,428,419; Oct. 7.  
 Sharpener, Fishhook. E. Mayer. 2,426,892; Sept. 2.  
 Sharpener, Glass cutter. J. E. Johnson, Jr. 2,433,049; Dec. 23.  
 Sharpener, Hypodermic needle. G. W. Jacoby, Jr. 2,420,357; Oct. 21.  
 Sharpener, Knife. M. Gorn. 2,433,512; Dec. 30.  
 Sharpener, Knife. G. M. Jones. 2,426,934; Sept. 2.  
 Sharpener, Knife. L. M. McBride. 2,432,534-5; Dec. 16.  
 Sharpener, Lawn mower. T. R. Brien. 2,414,851; Jan. 28.  
 Sharpener, Lawn mower. R. T. Burrows. 2,429,547; Oct. 21.  
 Sharpener, Lawn mower. J. S. Morrison and F. J. Arciszewski. 2,417,373; Mar. 11.  
 Sharpener or pointer for pencils and the like. T. T. Anderson. 2,431,447; Nov. 25.  
 Sharpener, Razor and shear. E. F. Schief. 2,418,430; Apr. 1.  
 Sharpener, Razor blade. F. R. Chester. 2,415,463; Feb. 11.  
 Sharpener, Razor blade. F. R. Chester. 2,429,307; Oct. 21.  
 Sharpener, Safety-razor blade. J. W. Sharp. 2,422,048; June 10.  
 Sharpener, Saw. C. G. Wahlstrom. 2,427,754; Sept. 23.  
 Sharpener, Skate runner. D. L. Slocum. 2,428,473; Oct. 7.  
 Sharpening device for mechanical pencils, Lead. W. E. Brady. 2,432,376; Dec. 9.  
 Shaver. H. Schlotthauer. 2,416,776; Mar. 4.  
 Shaver, Dry. E. C. Hall. 2,423,595; July 8.  
 Shaver, Dry. H. E. Page. 2,418,722; Apr. 8.  
 Shaving device with hair collecting means, Electric. D. Pinkas. 2,426,412; Aug. 26.  
 Shear, Electrically driven rotary. E. S. Murrah. 2,425,484; Aug. 12.  
 Shear, Flying. L. Iversen. 2,413,920; Jan. 7.  
 Shear for frangible materials. W. L. MacArthur. 2,423,601; July 8.  
 Shear plates for electric shavers, Making. W. Cunliffe. 2,423,177; July 1.  
 Shearing apparatus. A. S. Liss and A. M. MacPheat. 2,413,980; Jan. 7.  
 Shearing apparatus. J. W. Sheperdson. 2,414,772; Jan. 21.  
 Shearing articles, Method of and apparatus for. V. A. Rayburn and D. C. Robson. 2,429,944; Oct. 28.  
 Shearing device for frangible closure discs of pressure fluid containers, Explosively operated. F. A. Dodelin and P. G. MacGregor. 2,419,826; Apr. 29.  
 Shearing tool. A. J. Brunner. 2,428,650; Oct. 7.  
 Shears, Automatic. W. J. Landen. 2,426,459; Aug. 26.  
 Shears, Safety. R. G. White. 2,430,794; Nov. 11.  
 Shears, Self-sharpening. R. F. Burch, Sr. 2,420,650; May 20.  
 Shears, Vise. G. M. Ernst. 2,421,414; June 3.  
 Sheath and reel for leaders, Combination. J. Willis. 2,422,870; June 24.  
 Sheathing for buildings. W. J. Heinning. 2,433,694; Dec. 30.  
 Sheave. D. Firth. 2,413,817; Jan. 7.  
 Sheave-cable connection. S. A. Wohler. 2,418,565; Apr. 8.  
 Shedding means, Hydraulic. T. Hindle. 2,425,676; Aug. 12.  
 Sheet and liner, Combined stencil. C. O. Dicks. 2,427,447; Sept. 16.  
 Sheet cellulose to improve its dielectric properties, Treatment of regenerated. S. Ruben. 2,424,904; July 29.  
 Sheet comprising a molecularly oriented polyvinyl alcohol layer and manufacture, Composite plastic. E. H. Land, J. Mahler, and W. H. Ryan. 2,423,503; July 8.  
 Sheet comprising the reaction product of a polyvinyl acetal and an alcohol-modified urea-formaldehyde resin and making same, Calendered. R. M. Leekley. 2,432,242; Dec. 9.  
 Sheet cutting and creasing press. H. J. Luehrs. 2,425,039-41; Aug. 5.  
 Sheet feeding apparatus. L. C. Williams. 2,430,093; Nov. 4.  
 Sheet feeding apparatus. C. S. Seltzer. 2,431,514; Nov. 25.  
 Sheet feeding and notching. C. S. Seltzer. 2,414,908; Jan. 28.  
 Sheet gasket material, Making. R. Almy. 2,428,771; Oct. 14.  
 Sheet holding and positioning means for business machines, Carbon. R. L. Muller. 2,421,462; June 3.  
 Sheet, Laminated. P. Zalkind. 2,418,612; Apr. 8.  
 Sheet making mechanism. E. M. Kratz. 2,421,073; May 27.  
 Sheet material and method, Plastic. C. A. Scogland. 2,426,058; Aug. 19.  
 Sheet material, Dielectric. E. A. Kern and H. F. Miller. 2,418,354; Apr. 1.  
 Sheet material, Folding and sealing. E. A. Pardee. 2,432,122; Dec. 9.  
 Sheet material for printing machines, Receiving. F. O. Trump. 2,426,957; Sept. 2.  
 Sheet material for producing dyes thereon by electrolytic oxidation, Fibrous. M. Solomon. 2,430,254; Nov. 4.



- Sheet material for the electrolytic formation of an azo dyestuff thereon, Fibrous. M. Solomon. 2,419,296; Apr. 22.
- Sheet material for the electrolytic formation of azo dyes thereon, Fibrous. M. Solomon. 2,421,367; May 27.
- Sheet material, Making. G. P. Bosomworth and C. K. Novotny. 2,415,028; Jan. 28.
- Sheet material, Method and apparatus for bending. R. M. Boehm and A. A. Ladon. 2,420,119; May 6.
- Sheet material on predetermined spaced lines, Deforming. W. E. Courtney. 2,426,260; Aug. 26.
- Sheet material, Package of rolls of. J. D. Conti. 2,424,553; July 29.
- Sheet material with cohesive coating, Roll of. H. Y. Jennings. 2,432,075; Dec. 2.
- Sheet materials, Pressure-sensitive adhesive. M. H. Kemp. 2,416,925; Mar. 4.
- Sheet metal article and forming the same. O. A. Wheelon. 2,414,346; Jan. 14.
- Sheet metal bending rolls. A. H. Isenberg and R. N. Hipp. 2,432,666; Dec. 16.
- Sheet metal box. E. T. Turney, Jr. 2,427,823; Sept. 23.
- Sheet metal compartment with shelf supports and manufacture. G. F. Wales. 2,423,863; July 15.
- Sheet metal, Method and apparatus for forming. L. E. Champer. 2,415,788; Feb. 11.
- Sheet metal, Method of and apparatus for porcelain enameling. R. G. Calton. 2,428,307; Sept. 30.
- Sheet metal storage cabinet. J. E. Bales. 2,424,217; July 22.
- Sheet metal structure. J. B. Castle. 2,423,682; July 8.
- Sheet severing means. A. E. Lane. 2,427,611; Sept. 16.
- Sheets and the products obtained, Producing. E. G. Waltman. 2,422,323; June 17.
- Shelf, Combination door latch and handbag. C. M. Woodward. 2,415,122; Feb. 4.
- Shelf for refrigerator cabinets. G. E. Curtiss, Jr. 2,429,709; Oct. 28.
- Shelf for refrigerator cabinets. C. H. Nauert. 2,428,718; Oct. 7.
- Shelf, Refrigerated evaporator. F. D. Peltier. 2,432,931; Dec. 16.
- Shelf, Refrigerator. H. E. Smith. 2,421,089; May 27.
- Shelf structure. R. M. Hall. 2,420,173; May 6.
- Shelf with combined guiding and stop means, Slidable. G. C. Harbison. 2,428,216; Sept. 30.
- Shell. B. Rous. 2,414,898; Jan. 28.
- Shell handling device for trench mortars. E. M. Wilcoxon. 2,427,035; Sept. 9.
- Shellac coating compositions. H. H. Bassford, Jr. 2,425,023; Aug. 5.
- Shellac refining. C. A. Hampel. 2,429,317; Oct. 21.
- Sheller, Egg. J. Yates. 2,424,425; July 22.
- Shelling, shredding, and separator machine, Corn. J. A. Erickson. 2,422,399; June 17.
- Shells, Method and apparatus for forming the rims of cylindrical. D. Bohm. 2,425,986; Aug. 19.
- Shelving. G. Schaefer and C. A. Enquist. 2,413,892; Jan. 7.
- Shelving. E. F. Schild. 2,414,334; Jan. 14.
- Shelving including shelf adjustment fastener. H. G. Knuth. 2,415,825; Feb. 18.
- Shield and cultivator, Combination rotary soil. A. J. Rhodenbaugh. 2,431,963; Dec. 2.
- Shield, Boot or shoe. W. Jastrzomb. 2,427,459; Sept. 16.
- Shield, Cultivator. F. F. Carter. 2,433,199; Dec. 23.
- Shield, Electrostatic meter. J. C. Tellier. 2,416,780; Mar. 4.
- Shield, Fender. E. F. Reynolds. 2,427,160; Sept. 9.
- Shield, Finger. E. W. Goettel. 2,428,152; Sept. 30.
- Shield for external press type electron tubes, Conductive. N. P. Gowell. 2,420,311; May 13.
- Shield for neckline, shoulders and hair. A. C. Sorge. 2,420,916; May 20.
- Shield for potato diggers, Retainer. J. Leszkowicz. 2,421,425; June 3.
- Shield for shampooing, Face protector. F. J. Conjurske. 2,424,352; July 22.
- Shield for television receiver cabinets, Light. J. K. Rose. 2,431,830; Dec. 2.
- Shield for tubular illuminators, Light. C. C. Taylor. 2,429,141; Oct. 14.
- Shield for vacuum coolers, Splash. A. H. Heineman. 2,426,096; Aug. 19.
- Shield for vehicle, Anti-glare. L. Spraragen. 2,414,340; Jan. 14.
- Shield for welders, Head. J. F. Rakos. 2,420,619; May 13.
- Shield, Glare. L. R. Le Lande. 2,416,761; Mar. 4.
- Shield, Hand. P. R. Thompson. 2,414,247; Jan. 14.
- Shield, Head. M. L. K. Reich. 2,419,284; Apr. 22.
- Shield, Loop antenna. R. H. Bryan and T. L. Johnston. 2,419,480; Apr. 22.
- Shield or helmet, Welding head. J. Strong. 2,425,690; Aug. 12.
- Shield or protector, Pocket. H. Smith. 2,417,786; Mar. 18.
- Shield, Sand-blast. P. F. McCormack. 2,418,893; Apr. 15.
- Shield, Splash. C. F. Norlin. 2,416,944; Mar. 4.
- Shield, Toe. A. W. Whiteford. 2,423,538; July 8.
- Shield tunnelling. A. D. G. Wilson. 2,425,169; Aug. 5.
- Shield, Welding. S. Jechin. 2,417,883; Mar. 25.
- Shielded spark plug connector. T. W. Milton. 2,420,897; May 20.
- Shimmed device. H. A. Perkins. 2,431,342; Nov. 25.
- Shingle. G. A. Fasold and H. W. Greider. 2,421,415; June 3.
- Shingle and shingle covering. C. V. Cesery. 2,427,522; Sept. 16.
- Shingle construction. C. M. Vibert. 2,418,563; Apr. 8.
- Shingle, Interlocking. G. C. Turman. 2,421,766; June 10.
- Shingle, Metal ridge. R. D. Miller. 2,429,480; Oct. 21.
- Shingle, Seal-down composition. L. Kirschbraun. 2,421,892; June 10.
- Ship construction. H. P. Frear. 2,413,821; Jan. 7.
- Ship construction. W. P. Winslow. 2,423,670; July 8.
- Ship davit. W. L. Mappin. 2,415,016; Jan. 28.
- Ship framework, Beveling and shaping. B. F. Thompson. 2,431,971; Dec. 2.
- Ship propulsion system. H. C. Briggs. 2,432,857; Dec. 16.
- Shipping and display box. G. J. Hofeldt and C. W. Lofgren. 2,415,536; Aug. 12.
- Shipping and display case. J. E. Sacks. 2,417,705; Mar. 18.
- Shipping block. T. D. Smith. 2,420,800; May 20.
- Ships, Building. F. R. Harris. 2,426,094; Aug. 19.
- Shirring attachment, Spot. G. Fowler. 2,424,157; July 15.
- Shirt and coat, Combination. E. J. Schafer. 2,421,966; June 10.
- Shirt board and collar support, Combined. D. J. Bellin. 2,414,186; Jan. 14.
- Shirt collar shaping device. M. M. Newman. 2,426,519; Aug. 26.
- Shirt, Inflatable safety. J. H. Ripley. 2,425,206; Aug. 5.
- Shirt pocket. S. Burton. 2,432,378; Dec. 9.
- Shirt, Stay-down. S. Katz. 2,418,774; Apr. 8.
- Shirt with adjustable collar, Sport. L. M. Fisch. 2,425,091; Aug. 5.
- Shirts, Folding. R. C. Campbell. 2,418,755; Apr. 8.
- Shock absorber. J. N. Gladden and G. A. Kendall. 2,426,447; Aug. 26.
- Shock absorber. R. J. Olander. 2,415,188; Feb. 4.
- Shock absorber. E. F. Rossman. 2,431,966; Dec. 2.
- Shock absorber. E. F. Rossman. 2,432,937; Dec. 16.
- Shock absorber. J. R. Snyder. 2,429,140; Oct. 14.
- Shock absorber. M. Tykeson. 2,427,427; Sept. 16.
- Shock absorber. O. R. Wikander. 2,413,740; Jan. 7.
- Shock absorber, Boom. R. A. Beckwith. 2,426,587; Sept. 2.
- Shock absorber, Friction. G. E. Dath. 2,413,812; Jan. 7.
- Shock absorber, Friction. G. E. Dath. 2,415,162-4; Feb. 4.
- Shock absorber, Friction. G. E. Dath. 2,417,154; Mar. 11.
- Shock absorber, Friction. G. E. Dath. 2,426,261; Aug. 26.
- Shock absorber, Friction. G. E. Dath. 2,426,672; Sept. 2.
- Shock absorber, Friction. S. B. Haseltine. 2,416,691; Mar. 4.
- Shock absorber, Friction. S. B. Haseltine. 2,426,684-5; Sept. 2.
- Shock absorber, Friction. E. H. Lehman. 2,418,778; Apr. 8.
- Shock absorber, Friction. H. A. Miner. 2,415,960; Feb. 18.
- Shock absorber, Friction. R. J. Olander. 2,427,415; Sept. 16.
- Shock absorber, Hydraulic. C. R. Waseige. 2,431,716; Dec. 2.
- Shock absorber, Railway car end buffer. G. E. Dath. 2,429,672; Oct. 28.
- Shock absorbing landing gear. H. S. Bean and F. C. Morey. 2,426,585; Sept. 2.
- Shock absorbing machine gun mount. J. C. Trotter. 2,433,637; Dec. 30.
- Shock absorbing mechanism. G. E. Dath. 2,422,718; June 24.
- Shock absorbing mechanism, Friction. G. E. Dath. 2,414,222; Jan. 14.
- Shock absorbing mechanism, Friction. G. E. Dath. 2,422,717; June 24.
- Shock absorbing mechanism, Friction. G. E. Dath. 2,431,375; Nov. 25.
- Shock absorbing mechanism, Railroad draft gear friction. G. E. Dath. 2,426,262; Aug. 26.
- Shockproof device. W. R. Taliaferro. 2,426,068; Aug. 19.
- Shockproof electromagnetic device. R. B. Immel. 2,417,758; Mar. 18.
- Shock strut. C. E. Tack. 2,423,736; July 8.
- Shoe. D. J. Calderazzo. 2,422,947; June 24.
- Shoe. S. Heiman. 2,430,333; Nov. 4.
- Shoe and insole. R. E. Davis. 2,415,580; Feb. 11.
- Shoe and making same. J. Fern. 2,431,858; Dec. 2.
- Shoe and making same, Cemented. C. G. Forslund. 2,428,210; Sept. 30.
- Shoe and making same, Platform. C. L. Daly. 2,431,467; Nov. 25.
- Shoe, and making shoes. J. J. Brophy. 2,426,666; Sept. 2.
- Shoe and making the same. F. L. Ayers. 2,427,179; Sept. 9.



- Shoe and making the same. J. D. Chandler. 2,425,420; Aug. 12.
- Shoe and method of making the same. G. De Luca. 2,416,868; Mar. 4.
- Shoe, Brake. R. R. Birchfield. 2,414,687; Jan. 21.
- Shoe cap construction, Open toe. O. Chertok. 2,419,390; Apr. 22.
- Shoe clamp. J. Millar. 2,416,589; Feb. 25.
- Shoe cleat, Detachable. M. A. Robinson. 2,430,412; Nov. 4.
- Shoe construction. R. E. Cahill. 2,414,445; Jan. 21.
- Shoe construction. J. Glassman. 2,413,824; Jan. 7.
- Shoe construction. E. C. Neunuebel. 2,417,776; Mar. 18.
- Shoe, Convalescent. N. Hack. 2,420,239; May 6.
- Shoe covering, Waterproof wrap-around. B. F. Thompson. 2,432,947; Dec. 16.
- Shoe, Fabricated crosshead. A. H. Wunsch. 2,427,828; Sept. 23.
- Shoe, Film. O. R. Nemeth. 2,422,310; June 17.
- Shoe for aircraft, Inflatable. W. H. Hunter. 2,418,262; Apr. 1.
- Shoe for cutter bars. H. D. Hume. 2,429,318; Oct. 21.
- Shoe for piles. W. H. Cobi. 2,421,993; June 10.
- Shoe, Force lasted. J. S. Kamborian and W. T. Tracy. 2,422,684; June 24.
- Shoe, Golfer's. A. Koenig. 2,416,526; Feb. 25.
- Shoe heel and means for attaching the same. O. Boivin. 2,417,906; Mar. 25.
- Shoe holding device. C. N. Lyngby. 2,416,587; Feb. 25.
- Shoe insole construction. J. H. McCahan. 2,424,107; July 15.
- Shoe last. G. Clausung. 2,419,944; May 6.
- Shoe last. J. S. Kamborian. 2,427,354; Sept. 16.
- Shoe lasting machine. R. H. Lawson. 2,432,165; Dec. 9.
- Shoe machine. B. Jorgensen. 2,420,665; May 20.
- Shoe machine. C. A. Robinson and H. A. Imhof. 2,430,889; Nov. 18.
- Shoemaking. L. J. Bazzoni. 2,417,042; Mar. 11.
- Shoemaking. L. J. Bazzoni. 2,429,591; Oct. 28.
- Shoemaking. A. Cocozella. 2,420,464-5; May 13.
- Shoemaking. P. Weinstat. 2,427,985; Sept. 23.
- Shoe, Movable tension. C. A. Barstow. 2,431,681; Dec. 2.
- Shoe of special construction. R. D. Bowen. 2,419,479; Apr. 22.
- Shoe, Open-toe. R. Maling. 2,421,796; June 10.
- Shoe, Plastic. N. R. Glass. 2,429,354; Oct. 21.
- Shoe, Platform. R. Maling. 2,427,798; Sept. 23.
- Shoe, Platform. W. Weinbrot. 2,428,862; Oct. 14.
- Shoe polish stick and coating same, Coated. R. H. David. 2,421,246; May 27.
- Shoe polishing machine. W. A. Edington. 2,427,768; Sept. 23.
- Shoe press. P. Brauner. 2,422,390; June 17.
- Shoe press. J. S. Kamborian. 2,427,607; Sept. 16.
- Shoe press. D. Russo. 2,428,814; Oct. 14.
- Shoe pressing apparatus. F. Dawson. 2,423,878; July 15.
- Shoe rack. C. J. Niesner. 2,415,518; Feb. 11.
- Shoe reaching and straightening appliance. R. M. Anderson. 2,423,921; July 15.
- Shoe shining machine. E. A. Thielen. 2,428,476; Oct. 7.
- Shoe sole. J. M. Blerer. 2,419,387; Apr. 22.
- Shoe sole attaching, Welt. M. F. Ashley. 2,429,255; Oct. 21.
- Shoe sole press. A. Perri. 2,420,972; May 20.
- Shoe soles and the like, Manufacturing. P. J. Wentworth. 2,416,888; Mar. 4.
- Shoe, Sport. G. Spini. 2,433,303; Dec. 23.
- Shoe stiffener blanks, Treating. R. Almy and G. E. Ehle. 2,416,671; Mar. 4.
- Shoe, Stitchdown. H. G. Rosenzweig. 2,416,847; Mar. 4.
- Shoe stretcher. A. Rinnela. 2,424,669; July 29.
- Shoe, Track. R. Q. Armington. 2,425,219; Aug. 5.
- Shoe, Traction. W. B. Gregg. 2,422,092; June 10.
- Shoe upper, Elastic. R. A. Bunker. 2,428,262; Sept. 30.
- Shoe upper shaping and smoothing machine. M. L. Dodge. 2,433,266; Dec. 23.
- Shoe upper, Tubular plastic. L. and R. Pessak. 2,421,353; May 27.
- Shoe vamp, Seamed moccasin type. R. W. Reider. 2,431,506; Nov. 25.
- Shoe, Weighted. A. E. Goetz. 2,424,159; July 15.
- Shoe, Welt. D. Morein. 2,422,494; June 17.
- Shoe with channelled welt. F. J. Tobacco. 2,421,442; June 3.
- Shoe with toe stiffener, Force lasted. J. S. Kamborian. 2,414,104; Jan. 14.
- Shoes and laced uppers employed therein, Making. J. Fossa. 2,418,168; Apr. 1.
- Shoes, Lasting open-toe. J. S. Kamborian. 2,414,204; Jan. 14.
- Shoes, Making. K. A. Stritter. 2,425,445; Aug. 12.
- Shoes, Making open heel. S. Smith. 2,425,050; Aug. 5.
- Shoes, Making prewelt. E. A. Holmgren. 2,418,177; Apr. 1.
- Shoes, Manufacture of. K. A. Stritter. 2,414,910; Jan. 28.
- Shoes, Manufacture of open-end. J. S. Kamborian and W. T. Tracy. 2,414,105; Jan. 14.
- Shoes, Manufacture of welt. H. Gottlieb. 2,428,153; Sept. 30.
- Shoes, Manufacture of welt. F. H. Schlecht. 2,432,340; Dec. 9.
- Shoes, Method of and machine for turning the platform covers of platform. R. H. Lawson. 2,422,737; June 24.
- Shoes, Stiffening portions of the uppers of. W. H. Wedger. 2,424,869; July 29.
- Shoes with platforms and covers, Making. N. Waldman. 2,425,906; Aug. 19.
- Shoes with safety box toes, Making. H. G. McMurray. 2,428,938; Oct. 14.
- Shopper's bag. C. H. Klein. 2,424,277; July 22.
- Short turn trailer vehicle. R. C. Townsend. 2,431,626; Nov. 25.
- Shortening. G. C. North, A. J. Alton, and L. Little. 2,431,497-8; Nov. 25.
- Shortening having an extended plastic range. N. W. Ziels and W. H. Schmidt. 2,430,596; Nov. 11.
- Short-wave apparatus. H. Tunick. 2,425,657; Aug. 12.
- Short-wave permeability tuning system. W. F. Sands. 2,417,182; Mar. 11.
- Shot feeding apparatus for gang saws, Automatic. I. J. Haskel. 2,431,555; Nov. 25.
- Shotgun choke. J. J. Limon. 2,428,232; Sept. 30.
- Shoulder mark. S. Mars. 2,420,257; May 6.
- Shoulder pad. A. Barritz. 2,423,168; July 1.
- Shoulder pad. N. Breslow, J. Stein, and H. Kneltel. 2,420,583; May 13.
- Shoulder pad. B. Freeman. 2,419,830; Apr. 29.
- Shoulder pad. A. Kaplan. 2,414,534; Jan. 21.
- Shoulder pad. J. L. Kleinman. 2,422,834; June 24.
- Shoulder pad. M. Lavin. 2,424,662; July 29.
- Shoulder pad. M. Leebow. 2,421,895; June 10.
- Shoulder pad. W. Leif. 2,431,616; Nov. 25.
- Shoulder pad. I. Perlmutter. 2,433,623; Dec. 30.
- Shoulder pad. M. Stehlik. 2,416,415; Feb. 25.
- Shoulder pad. F. B. Zacks. 2,422,161; June 10.
- Shoulder pad and making same. E. P. Endecott. 2,425,233; Aug. 5.
- Shoulder pad construction. E. H. Hull. 2,423,498; July 8.
- Shoulder pads, Making. S. Bloom. 2,425,227; Aug. 5.
- Shovel. G. A. Spencer. 2,416,414; Feb. 25.
- Shovel loader attachment, Tractor mounted. L. J. Costelloe. 2,418,577; Apr. 8.
- Shovel, Overhead. F. P. Lawler. 2,423,193; July 1.
- Shovel, Power. H. F. Gorsuch. 2,418,299; Apr. 1.
- Shower cabinet. S. E. Nilson. 2,423,722; July 8.
- Shower device, Adjustable. V. K. Volk. 2,418,915; Apr. 15.
- Shower head. E. H. Bucknell and R. E. Bletcher. 2,423,960; July 15.
- Shrinker, Angle. C. L. Beard. 2,425,913; Aug. 19.
- Shrinkproofing and feltproofing of keratinous textile fibers. J. Kamlet, M. Weisberg, and L. Beer. 2,427,097; Sept. 9.
- Shroud for machines. D. E. Haven and C. W. Soderblom. 2,420,706; May 20.
- Shunt universal motor. J. M. Naul. 2,417,120; Mar. 11.
- Shutter. T. B. Thurman. 2,433,583; Dec. 30.
- Shutter and dimmer, Light. F. J. Aves. 2,424,575; July 29.
- Shutter and film-wind interlock. J. F. Morse and H. L. Hosterman. 2,418,594; Apr. 8.
- Shutter control. J. P. Whann. 2,432,186; Dec. 9.
- Shutter control with surge pressure protector, Direct action. E. C. Warrick and H. Cruzan. 2,431,003; Nov. 18.
- Shutter, Focal-plane. I. W. Doyle and C. V. Johnson. 2,424,439; July 22.
- Shutter, Focal plane. L. W. Gacki. 2,417,482; Mar. 18.
- Shutter for cameras, Sliding. M. R. Hutchison, Jr., and H. H. Harmon. 2,418,644; Apr. 8.
- Shutter for controlling light along two independent optical paths. E. C. Guedon. 2,421,499; June 3.
- Shutter for gas burners, Air. P. S. Harper. 2,419,995; May 6.
- Shutter, Inexpensive camera. M. R. Hutchison, Jr., and A. L. Wehr. 2,420,597; May 13.
- Shutter, Motion-picture projector fire. S. E. Bartelson. 2,431,908; Dec. 2.
- Shutter, Rotary. T. McG. Aiken. 2,429,972; Nov. 4.
- Shuttle and bobbin for looms. W. L. Williamson. 2,420,216; May 6.
- Shuttle bobbin take-up mechanism. R. J. Loos. 2,417,941; Mar. 25.
- Shuttle check for looms. C. Darwin. 2,417,295; Mar. 11.
- Shuttle, Plastic. P. B. Wilson. 2,423,917; July 15.
- Shuttle, Tatting. G. A. Carlson. 2,420,861; May 20.
- Siccative oils, Preparation of. M. Dussollier. 2,433,077; Dec. 23.
- Sickle grinder. E. C. Beeler. 2,420,645; May 20.
- Sidarm circulating water heater. H. C. Reed. 2,414,557; Jan. 21.
- Slide packing floating ram gate. F. J. Schweitzer. 2,427,073; Sept. 9.
- Side seam for sheet metal can bodies. P. E. Pearson. 2,424,188; July 15.
- Siding, Metal. J. G. Carr. 2,427,762; Sept. 23.
- Siding units, Making. P. A. Voigt. 2,416,554; Feb. 25.
- Sieve for threshers, Adjustable bar. S. E. Ross. 2,428,294; Sept. 30.
- Sifter, Flour. T. Bailey. 2,416,810; Mar. 4.
- Sight for guns, cameras or the like, including polarizers and a biaxial birefringent, Achromatic. C. D. West. 2,420,273; May 6.



- Sight for guns, cameras or the like, including polarizers and a biaxial birefringent element, Optical interference. E. H. Land. 2,420,253; May 6.
- Sight for guns, cameras or the like, Optical interference. E. H. Land. 2,420,252; May 6.
- Sight rib for firearm barrels, Ventilated. J. Crowe. 2,431,991; Dec. 2.
- Sighting device for moving picture cameras. M. A. Dalotel. 2,423,967; July 15.
- Sighting device including an aperture divergent lens, Bore. L. H. Brown. 2,419,533; Apr. 29.
- Sign: *See*—
- Illuminated sign. Wind operated rotatable light reflecting sign.
- Reflective sign.
- Sign control and system. E. H. Unkles, B. W. Roth, and C. S. Whitney. 2,422,149; June 10.
- Sign reflector button mounting. C. D. Ryder. 2,432,810; Dec. 16.
- Signal: *See*—
- Clutch wear signal. Inertia-operated stop signal.
- Electric chime signal. nal.
- Fire extinguisher signal. Vehicle deceleration signal.
- Hotbox signal.
- Signal. J. N. Paul. 2,417,443; Mar. 18.
- Signal and radio aerial, Combination. T. L. Dalton. 2,420,772; May 20.
- Signal comparison system. E. K. Stodola. 2,418,143; Apr. 1.
- Signal controller, Railroad washout. A. E. Sheldon. 2,432,451; Dec. 9.
- Signal detection system. W. H. Bliss and J. E. Smith. 2,418,750; Apr. 8.
- Signal device. D. W. Allen. 2,430,698; Nov. 11.
- Signal device for gyroscopes, Caging. R. E. Wiggin and H. G. Swanson. 2,419,928; Apr. 29.
- Signal device for mailboxes. J. C. Jones. 2,424,661; July 29.
- Signal device for melting pots. M. L. Pearson. 2,428,635; Oct. 7.
- Signal device, Oscillating light. J. D. Kennelly. 2,417,934; Mar. 25.
- Signal flare. J. A. and E. Gearon. 2,422,403; June 17.
- Signal flare magazine and caster. J. A. and E. Gearon. 2,421,491; June 3.
- Signal for motor vehicles, Direction. R. H. Zull. 2,433,252; Dec. 23.
- Signal for motor vehicles, Traffic. M. F. Livingston. 2,431,129; Nov. 18.
- Signal for railroads, Light. O. S. Field. 2,419,444; Apr. 22.
- Signal for railroads, Light. T. J. Judge. 2,419,265; Apr. 22.
- Signal for rural mail boxes. W. J. Hurban. 2,428,423; Oct. 7.
- Signal generator. H. L. Gerwin. 2,415,093; Feb. 4.
- Signal level control system. R. W. Sanders. 2,431,511; Nov. 25.
- Signal light. V. A. Marco. 2,424,574; July 29.
- Signal modulator, Video. C. E. Hallmark. 2,429,755; Oct. 28.
- Signal or control apparatus. L. Lee, II. 2,429,322; Oct. 21.
- Signal portraying apparatus. H. M. Crosby. 2,425,999; Aug. 19.
- Signal portraying apparatus. R. B. Dome. 2,426,439; Aug. 26.
- Signal snap hook. G. E. Foreman. 2,419,947; May 6.
- Signal switch. H. C. Bolley. 2,428,447; Oct. 7.
- Signal system and control device, Rotation indicating. H. M. Martin. 2,422,973; June 24.
- Signal system, Approach. L. H. Peck. 2,428,290; Sept. 30.
- Signal system for cranes. H. L. Conrad. 2,418,576; Apr. 8.
- Signal system for measuring instruments. L. Gess. 2,427,131; Sept. 9.
- Signal system, Watchman's. E. A. Schachinger. Re. 22,864; Apr. 8.
- Signal translating apparatus. H. F. Olson. 2,429,104; Oct. 14.
- Signal translating apparatus. R. Snepvangers. 2,417,712; Mar. 18.
- Signal translating device, Electromechanical. J. P. Maxfield. 2,418,132; Apr. 1.
- Signal translating device, Magnetostriuctive. R. M. Bozorth. 2,433,337; Dec. 30.
- Signal transmission device. M. Morrison. 2,425,950; Aug. 19.
- Signal transmission system. H. G. Busignies. 2,416,286; Feb. 25.
- Signaling apparatus. J. T. Neiswinter. 2,425,818; Aug. 19.
- Signaling apparatus, Submarine. R. E. Peterson. 2,420,676; May 20.
- Signaling arrangement in a cable system. E. Widén and G. Lindahl. 2,418,104; Mar. 25.
- Signaling device for cycles. T. A. Davidson. 2,416,160; Feb. 18.
- Signaling device, Mail box. J. Doppelhammer. 2,421,603; June 3.
- Signaling device, Portable. C. L. Christian. 2,415,991; Feb. 18.
- Signalling device, Speed. C. L. Sheets. 2,430,305; Nov. 4.
- Signaling or control system, Electric selective. C. E. P. Jones and R. R. Birss. 2,432,902; Dec. 16.
- Signaling system. H. B. Deal. 2,420,232; May 6.
- Signaling system. F. H. Hanley. 2,423,801; Aug. 19.
- Signaling system. B. M. Harrison. 2,424,981; Aug. 5.
- Signaling system. E. R. Taylor. 2,418,145; Apr. 1.
- Signaling system, Carrier current. A. G. Lang. 2,430,471; Nov. 11.
- Signaling system, Coded track circuit. N. D. Preston. Re. 22,939-40; Nov. 25.
- Signaling system, Electric. G. J. M. Penet. 2,424,579; July 29.
- Signaling system, Electrical. B. M. Hadfield. 2,414,297; Jan. 14.
- Signaling system, Electrical. L. Joly and L. C. Andres. 2,428,028; Sept. 30.
- Signaling system, Electrical. W. Pouliart. 2,423,115; July 1.
- Signaling system for fastening-inserting machines. F. E. Stratton. 2,423,953; July 15.
- Signaling system, Long distance telephone. M. R. Mauge. 2,424,577; July 29.
- Signaling system, Selective. F. H. Hanley. 2,418,406; Apr. 1.
- Signaling system using delay line to obtain time division, Multichannel. D. I. Lawson. 2,414,265; Jan. 14.
- Signaling system with remote control, Electrical. C. De Vriendt and C. De Zeeuw. 2,423,077; July 1.
- Signalling and display device, Daylight fluorescent. R. C. Switzer. 2,417,384; Mar. 11.
- Signalling device. U. C. Walk. 2,415,118; Feb. 4.
- Signalling system. J. E. Lindberg, Jr., and B. Walker. 2,428,713; Oct. 7.
- Signalling system for railways and the like, Coded track circuit. J. P. Coley. 2,418,869; Apr. 15.
- Signalling system, Pulse. E. H. B. Bartelink. 2,416,895; Mar. 4.
- Signalling system, Pulse modulation. D. I. Lawson. 2,418,268; Apr. 1.
- Silica and other impurities from water by precipitation, Removal of. P. C. Goetz and H. L. Tiger. 2,428,418; Oct. 7.
- Silica-beryllia gel. A. C. Schmitt. 2,417,664; Mar. 18.
- Silica containing gels, Making. M. Shoeld. 2,428,895; Oct. 14.
- Silica-containing hydrogel, Forming a. M. M. Marisc and A. C. Schmitt. 2,419,272; Apr. 22.
- Silica from iron ore by anionic collectors, Froth flotation of. E. C. Herkenhoff. 2,423,022; June 24.
- Silica from iron ore, Froth flotation of. J. B. Clemmer and M. F. Williams, Jr. 2,419,945; May 6.
- Silica, Making finely divided volatilized. R. Reik and A. C. Byrns. 2,428,178; Sept. 30.
- Silicates, Stable, gelling, acidic hydrov. L. C. Hurd and W. L. VanHorne. 2,431,481; Nov. 25.
- Siliceous contact material and manufacture. A. B. Cummins. 2,423,686; July 8.
- Siliceous deposits in fluorine-containing catalyst hydrocarbon conversions, Prevention of. R. C. Cole. 2,430,453; Nov. 11.
- Siliceous deposits in processes wherein hydrocarbons are contacted with organic fluorine-forming material containing silica, Prevention of. F. E. Frey. 2,430,460; Nov. 11.
- Silicon carbide articles and making same. A. H. Heyroth. 2,431,326; Nov. 25.
- Silicon containing resins and producing same. L. R. B. Hervey. 2,432,891; Dec. 16.
- Silicon material for crystal contacts, Manufacture of. C. E. Ransley, J. W. Ryde, and S. V. Williams. 2,428,992; Oct. 14.
- Silicon steel strip, Treating. M. Broverman. 2,413,949; Jan. 7.
- Silicon tetrachloride and carbon disulphide, Manufacture of. A. Belchetz. 2,425,504; Aug. 12.
- Sill structures, especially for automobiles. T. Ulrich. 2,427,635; Sept. 16.
- Siloxanes, and making same, Alkoxy end-blocked. M. J. Hunter, H. J. Fletcher, and C. C. Currie. 2,415,389; Feb. 4.
- Silver-backed nonwelding contacts and making the same. M. R. Swinehart. 2,425,053; Aug. 5.
- Silver catalysts, Preparation of. A. Cambron and F. L. W. McKim. 2,426,761; Sept. 2.
- Silver halide emulsions sensitized with cyan-dyes containing a benzothiophenothiazole nucleus. E. B. Middleton and G. A. Dawson. 2,424,484; July 22.
- Silver halide emulsions, Sensitizing. A. W. Anish. 2,427,177; Sept. 9.
- Silver halide emulsions, Supersensitized. B. H. Carroll and L. G. S. Booker. 2,432,468; Dec. 9.
- Silver images with mercapto-tetrazole and triazole compounds, Treatment of developed. L. V. Chilton, J. D. Kendall, and H. Phillips. 2,432,506; Dec. 16.
- Silver on aluminum and its alloys, Electroplating. E. M. Julich and W. A. Mehmehl. 2,430,468; Nov. 11.
- Simultaneously dehydrogenating naphthenes and hydro-generating olefins. R. M. Hill. 2,426,870; Sept. 2.
- Sine bar. E. A. Berry. 2,417,150; Mar. 11.



- Single acting flat bed web perfecting printing press. P. F. Cox. 2,425,920; Aug. 19.
- Single delivery cigarette dispenser. P. J. Zanardo. 2,431,219; Nov. 18.
- Single-phase alternating current synchronous motor. M. T. Swisher. 2,421,301; May 27.
- Sink trap. H. A. Bell and W. S. Allen. 2,424,548; July 29.
- Sinker head for full-fashioned knitting machines. W. M. Golaszewski and A. Kaczor. 2,422,479; June 17.
- Sintered aluminum bearing. F. K. Hensel and E. I. Larsen. 2,418,881; Apr. 15.
- Sitz bath. S. F. Oliver. 2,427,807; Sept. 23.
- Six cycle engine. R. H. Hill. 2,420,136; May 6.
- 6-methoxyquinoline-N-oxide, Preparation of. A. M. Van Arendonk. 2,416,658; Feb. 25.
- Sizing and dressing means. J. Bergier, A. Eskenazi, and A. Helbronner. 2,415,408; Feb. 11.
- Sizing compositions and yarn sized therewith. W. R. Haeefe. 2,421,122; May 27.
- Sizing packages of yarn. L. B. Arnold, Jr. 2,419,756; Apr. 29.
- Skate and sandal, Combined. B. Ferrar. 2,422,228; June 17.
- Skate, Ice. E. C. Meyers. 2,414,967; Jan. 28.
- Skate reinforcing plate, Roller. R. R. Ware, Jr. 2,424,783; July 29.
- Skate, Roller. G. L. Fuller. 2,429,678; Oct. 28.
- Skate, Roller. C. Phares. 2,427,572; Sept. 16.
- Skates on shoes, Locating. G. H. Gillis. 2,414,735; Jan. 21.
- Skates, Roller and other. S. Guttridge. 2,424,819; July 29.
- Skeleton mast having legs circular in cross section. H. J. Woolslayer, E. A. Campbell, and C. Jenkins. 2,420,059; May 6.
- Sketching equipment, Artists. C. D. Austin. 2,418,286; Apr. 1.
- Ski. G. E. Carrier. 2,433,596; Dec. 30.
- Ski binding. E. Koller. 2,429,413; Oct. 21.
- Ski fastening. P. Schwarze. 2,433,161; Dec. 23.
- Skid, Rollerway. J. B. Webb. 2,421,670; June 3.
- Skimming ladle, Metal. J. E. Weller. 2,431,288; Nov. 18.
- Skin removing machine, Abrading disc. L. H. Zeun. 2,428,903; Oct. 14.
- Skins, textile fabrics, and the like, Treating. P. Poser. 2,426,372; Aug. 26.
- Skip. J. J. Korn. 2,424,620; July 29.
- Skip feed mechanism. C. Jacobson. 2,422,783; June 24.
- Skirt. S. D. Koret. 2,424,398; July 22.
- Skirt. L. Polakoff. 2,424,114; July 15.
- Skirt. N. Tennens. 2,423,666; July 8.
- Skirt and trouser hanger. J. C. Yacoe. 2,426,330; Aug. 26.
- Skirt marker. J. F. Yechout. 2,433,082; Dec. 23.
- Skirt, Maternity. K. H. Calvin. 2,420,769; May 20.
- Skullcap, Reflector. H. E. Dice. 2,431,169; Nov. 18.
- Skylight construction. R. F. Gildehaus. 2,425,060; Aug. 5.
- Skylight construction. G. H. Lenke. 2,419,267; Apr. 22.
- Slab connection. J. N. Heltzel. 2,419,022; Apr. 15.
- Slag, Fluidizing. F. R. Kemmer. 2,416,179; Feb. 18.
- Slag, Process and apparatus for producing lightweight. A. N. Hayes. 2,417,301; Mar. 11.
- Sled attachment for baby carriages. J. J. Rogers. 2,428,994; Oct. 14.
- Sleep by creating the illusion of a winking eye, Producing. C. W. Johnson. 2,425,538; Aug. 12.
- Sleeve. W. H. Defoe. 2,423,009; June 24.
- Sleeve assembling apparatus for lithographic rolls. N. A. Mack. 2,431,407; Nov. 25.
- Sleeve form. G. Tanzer. 2,432,833; Dec. 16.
- Sleeve, Garment. C. Solomon. 2,414,429; Jan. 14.
- Sleeve press. G. R. Bicknell and F. A. Heidenfelder. Re. 22,937; Nov. 25.
- Sleeve press. E. Davis. 2,420,818; May 20.
- Sleeve puller. C. Eberhart. 2,424,681; July 29.
- Sleeve restrainer, Shirt. W. C. Baker. 2,420,162; May 6.
- Sleeves, Producing serrated. J. W. West. 2,427,756; Sept. 23.
- Sleeves to hose ends, Securing inner and outer. C. R. Midtlyng and H. S. Young, Jr. 2,427,685; Sept. 23.
- Slice delivery and arranging apparatus for slicing machines. W. Mahler. 2,426,835; Sept. 2.
- Slice halving device, Bread. M. L. Hartmann. 2,429,756; Oct. 28.
- Slicer and slitter, Combined vegetable. J. E. Krilow. 2,415,747; Feb. 11.
- Slicer, Vegetable. T. H. Walker. 2,414,075; Jan. 7.
- Slicing machine. E. Schuchardt. 2,417,617; Mar. 18.
- Slicing machine, Bread. C. H. Petskeys. 2,427,108; Sept. 9.
- Slicing machine, Plural rotary cutter bread. H. J. Criner. 2,414,857; Jan. 28.
- Slicing machine, Reciprocating blade type. A. G. Bush. 2,420,930; May 20.
- Slide assembly, Extension table. R. R. Lowe. 2,414,959; Jan. 28.
- Slide button switch. W. C. Linton. 2,415,298; Feb. 4.
- Slide fastener. I. Goldstein. 2,427,777; Sept. 23.
- Slide fastener. J. B. Griffin. 2,422,093; June 10.
- Slide fastener. J. Robinson. 2,418,482; Apr. 8.
- Slide fastener wear testing machine. J. B. Griffin. 2,429,055; Oct. 14.
- Slide fence protection system for railroads. W. V. Grosjean. 2,429,056; Oct. 14.
- Slide for mine cars, Automatic balanced. C. S. Stone. 2,415,263; Feb. 4.
- Slide loop fastener. A. V. Motsinger. 2,431,703; Dec. 2.
- Slide operated fastener. K. C. Legat. 2,415,643; Feb. 11.
- Slide rule. O. E. Batorl. 2,415,231; Feb. 4.
- Slide rule. O. E. Batorl. 2,430,599; Nov. 11.
- Slide rule. H. M. Kaufman. 2,422,421; June 17.
- Slide viewing instrument. C. Langberg. 2,426,888; Sept. 2.
- Slider for fasteners. R. C. Legat. 2,421,701; June 10.
- Slider for separable fasteners. R. C. Legat. 2,421,511; June 3.
- Slider for separable fasteners. A. Weber. 2,433,801; Dec. 30.
- Sling and end fitting therefor. F. W. von Wehrden. 2,426,538; Aug. 26.
- Sling and making same. I. R. Mitchell. 2,430,071; Nov. 4.
- Sling, Braided. V. C. J. Peterson and W. A. Loewen. 2,418,524; Apr. 8.
- Sling, Choker. A. A. Berndt. 2,416,733; Mar. 4.
- Sling structure, Braided. V. C. J. Peterson. 2,414,664; Jan. 21.
- Slip. L. Gardella. 2,432,743; Dec. 16.
- Slip cover. T. M. Waranch. 2,416,806; Mar. 4.
- Slip-friction coupling. A. G. Cooley. 2,421,925; June 10.
- Slip gage. E. W. Evans. 2,419,257; Apr. 22.
- Slip-sinker. P. H. Metzler. 2,425,069; Aug. 5.
- Slipper. C. F. Schulte. 2,427,882; Sept. 23.
- Slitter, Boiler tube. H. F. Dugger. 2,427,843; Sept. 23.
- Slitting and scoring mechanism, Paperboard. H. W. Bruker. 2,418,066; Mar. 25.
- Slotting machine, Automatic. E. A. Schigut. 2,422,803; June 24.
- Sludge arranged at different levels and apparatus therefor, Digesting. R. B. Carter, Jr. 2,422,394; June 17.
- Sludge pumping apparatus. G. R. Tollefsen. 2,433,408; Dec. 30.
- Sludges, precipitates and residues occurring or used in the manufacture of tetraalkyl leads, Stabilizing and deactivating. A. L. Linch. 2,432,321; Dec. 9.
- Slug casting machine using a hand stick. H. A. Burt. 2,426,166; Aug. 26.
- Sluice box with water distribution pipes. J. P. Smith. 2,422,442; June 17.
- Slushing compound and protecting metallic surfaces. T. G. Roehner and L. H. Sudholz. 2,414,768; Jan. 21.
- Slushing system, Engine. G. H. Keller. 2,428,915; Oct. 14.
- Smocking apparatus. H. Kelly. 2,425,247; Aug. 5.
- Smoke composition, Stabilized colored. J. W. Orelup. 2,419,851; Apr. 29.
- Smoke-generating apparatus. W. A. Pennow. 2,428,580; Oct. 7.
- Smoke generator. M. Dwyer. 2,417,592; Mar. 18.
- Smoke pot cover. H. E. Krasner and B. Klausner. 2,419,357; Apr. 22.
- Smoke, Producing. H. E. Britt. 2,420,416; May 13.
- Smoke producing device. J. W. van Karner. 2,423,859; July 15.
- Smoke screen composition. H. A. Levey and A. C. Patterson. 2,432,577; Dec. 16.
- Smoker's cabinet. F. H. Doerr. 2,428,413; Oct. 7.
- Smoker's pipe. D. P. Lavietes. 2,421,337-8; May 27.
- Smoking pipe. A. Geiger. 2,417,978; Mar. 25.
- Smoking pipe. J. L. Turner. 2,419,509; Apr. 22.
- Smoking pipe. E. M. Yamamoto. 2,428,824; Oct. 14.
- Smooth acceleration in positive drive clutches, Producing. R. E. Mathes. 2,427,292; Sept. 9.
- Snap action device. G. M. Hausler. 2,429,812; Oct. 28.
- Snap-action device. W. S. Kunzler. 2,417,652; Mar. 18.
- Snap action switch. G. M. Hausler. 2,429,813; Oct. 28.
- Snap-action switch. W. A. Tratsch. 2,414,778; Jan. 21.
- Snap clamp. H. R. Ellinwood. 2,431,379; Nov. 25.
- Snap clip. H. R. Ellinwood. 2,427,770; Sept. 23.
- Snap switch. G. Blair. 2,418,965; Apr. 15.
- Snap switch. R. Hetherington. 2,420,880; May 20.
- Snap switch. O. H. Kaminsky. 2,417,169; Mar. 11.
- Snap switch. W. E. Stilwell, Jr. 2,415,448; Feb. 11.
- Snap type gage. P. W. Johnson. 2,433,516; Dec. 30.
- Snapping and husking device, Corn. R. P. Messenger and A. E. W. Johnson. 2,424,181; July 15.
- Snatch block. A. G. Frankhouser. 2,423,142; July 1.
- Snath for scythes. J. M. Quindry. 2,421,162; May 27.
- Snowplow. C. H. Frink and G. W. Kenyon. 2,430,221; Nov. 4.
- Snow plow, Motor vehicle. S. Elliot. 2,419,489; Apr. 22.
- Snow removal apparatus. R. J. Inksetter. 2,426,507; Aug. 26.
- Snow vehicle. R. D. Acton. 2,419,522; Apr. 29.
- Snubber for resilient mounting. H. H. Fink. 2,415,280; Feb. 4.
- Snubbing means. G. E. Dath. 2,417,545; Mar. 18.
- Soap. J. A., and H. M. Garvey. 2,414,098; Jan. 14.
- Soap and washcloth, Combination. F. P. Bowman. 2,431,913; Dec. 2.
- Soap cake having a desired insignia, Making. L. A. Block. 2,423,435; July 8.



- Soap container. E. K. Bludworth. 2,414,711; Jan. 21.  
 Soap dish construction. E. A. Jodoin. 2,417,365; Mar. 11.  
 Soap dispersions, Metallic. C. E. Retzsch and C. H. Lighthipe. 2,425,828; Aug. 19.  
 Soap-free fatty oils, Preparing emulsions of. L. Auer. 2,418,451; Apr. 8.  
 Soap, Manufacture of. J., A., and H. M. Garvey. 2,414,097; Jan. 14.  
 Soap novelty, Toilet. C. H. Churchill. 2,420,734; May 20.  
 Soap particles having only slight dust-forming tendencies, Preparation of. R. F. Heald and M. L. Givan. 2,423,449; July 8.  
 Soap product and making same. S. J. Holuba. 2,423,451; July 8.  
 Soap product, Method of and apparatus for manufacturing subdivided. P. Tainsh. 2,429,852; Oct. 28.  
 Soap, Stabilized. M. F. Gribbins. 2,416,052; Feb. 18.  
 Soaps, Copper hydroxy. A. Minich. 2,423,611; July 8.  
 Soaps, Preparation of heavy metal. A. G. Weber and C. H. Hamblet. 2,416,074; Feb. 18.  
 Soaps, Splitting tall oil. A. Pollak, P. E. Chapman, and R. Hastings. 2,430,029; Nov. 4.  
 Sock drier. H. G. Kerbawy. Re. 22,862; Apr. 8.  
 Socks on two needles, Knitting. N. M. Armstrong. 2,416,040; Feb. 18.  
 Socket and by-pass condenser unit, Combined tube. S. D. Lavoie. 2,427,563; Sept. 16.  
 Socket assembly. B. E. Ricks. 2,420,621; May 13.  
 Socket, Bedpost rail. W. R. Elrad. 2,425,927; Aug. 19.  
 Socket contact, Electrical. J. K. Chenier. 2,430,159; Nov. 4.  
 Socket, Electric. E. T. Collins. 2,424,435; July 22.  
 Socket, Electric. H. W. Wild. 2,424,528; July 22.  
 Socket, Electric lamp. W. E. Patterson. 2,417,518; Mar. 18.  
 Socket, Electric light. H. Lagin. 2,427,464; Sept. 16.  
 Socket, Electrical. K. M. McLaughlin. 2,419,460; Apr. 22.  
 Socket for discharge lamps, Lamp. A. G. Mueller. 2,427,225; Sept. 9.  
 Socket for drilling and countersinking tools. L. A. Smith. 2,429,375; Oct. 21.  
 Socket for tubular lamps, Safety. G. W. De Bell. 2,430,602; Nov. 11.  
 Socket, Handle coupling. J. M. Patterson. 2,417,517; Mar. 18.  
 Socket, High-voltage tube. S. M. Del Camp. 2,427,991; Sept. 23.  
 Socket structure. W. Frear. 2,421,780; June 10.  
 Socket wrenches, Apparatus and method for drawing and broaching. J. J. Rearden. 2,430,368; Nov. 4.  
 Sockets for artificial limbs, Forming. P. W. Kunkel. 2,424,278; July 22.  
 Soda and production of caustic compound, Purification of caustic. D. F. Smith. 2,418,372; Apr. 1.  
 Sodium ferrocyanide, Production of. J. H. Young. 2,431,601; Nov. 25.  
 Sodium fluoride pellet and making same, Porous. K. E. Long and H. W. Cromer. 2,426,557; Aug. 26.  
 Sodium phosphate aluminates. D. Lurie. 2,431,946; Dec. 2.  
 Sodium tripolyphosphate, Manufacture of. C. S. King. 2,419,147-8; Apr. 15.  
 Soil disintegrating and sifting screen. R. H. Crossley. 2,415,675; Feb. 11.  
 Soil gas prospecting. P. S. Williams. 2,414,913; Jan. 28.  
 Soil improving method. C. J. Tonkin. 2,424,520; July 22.  
 Soil pulverizer with cleaner. R. R. Borngraeber. 2,426,482; Aug. 26.  
 Soil treating process. F. H. Leavitt. 2,415,251; Feb. 4.  
 Solar, still, Inflatable. W. R. P. Delano. 2,427,262; Sept. 9.  
 Solder-applying machines, Electric. H. A. Mulvany. 2,425,114; Aug. 5.  
 Solder, Composite metal. G. Durst. 2,431,611; Nov. 25.  
 Solder filled jewelry finding, Making. F. A. Ballou, Jr. 2,425,299; Aug. 12.  
 Solder, Gold-copper. R. B. Nelson. 2,426,467; Aug. 26.  
 Soldering device, Electrically heated. B. P. McKinley. 2,416,936; Mar. 4.  
 Soldering iron. R. W. Parker. 2,423,900; July 15.  
 Soldering iron. J. A. Reitan. 2,424,848; July 29.  
 Soldering iron. M. Vawryk. 2,415,542; Feb. 11.  
 Soldering machine. W. J. Taylor, Jr. 2,432,834; Dec. 16.  
 Soldering machine, Electric. H. A. Mulvany. 2,425,115; Aug. 5.  
 Solderless connection. E. G. Walsh. 2,421,045; May 27.  
 Sole attaching using high-frequency field. G. T. Hart. 2,426,268; Aug. 26.  
 Sole attaching with thermoplastic cement. P. H. Dixon and J. R. Ioanill. 2,417,065; Mar. 11.  
 Sole for footwear. D. D. Goldstein. 2,421,932; June 10.  
 Sole for footwear, Rope. C. C. Enright. 2,430,497; Nov. 11.  
 Sole for shoes and rubber footwear, Multiple antiskid ribbed suction. E. C. Hogg. 2,424,463; July 22.  
 Sole, Insert. J. M. Sims. 2,421,088; May 27.  
 Sole, Nonslipping rubber. E. Dufour. 2,424,226; July 22.  
 Sole roughing machine. A. Perri. 2,424,415; July 22.  
 Sole to welted shoes, Attaching. G. T. Hart, Jr. 2,426,267; Aug. 26.  
 Sole treating apparatus. W. C. Card, Jr. 2,421,053; May 27.  
 Sole treating apparatus. J. C. Hardie. 2,421,419; June 3.  
 Soles and the like, Cutting. P. Yukob. 2,422,063; June 10.  
 Solenoid. W. J. Christiansen. 2,419,333; Apr. 22.  
 Solenoid. J. C. Koonz, LaV. E. Quinnell, and R. H. Severance. 2,417,832; Mar. 25.  
 Solenoid. R. M. Nardone. 2,417,990; Mar. 25.  
 Solenoid, Adjustable-pull. L. H. Snyder. 2,427,630; Sept. 16.  
 Solenoid and plunger therefor. H. G. Kipke. 2,428,712; Oct. 7.  
 Solenoid for torpedoes, Steering. M. G. Leonard. 2,417,766; Mar. 18.  
 Solenoid steering system for dirigible craft. J. Naymik. 2,427,735; Sept. 23.  
 Solenoid type of electromagnet. S. S. Cramer. Re. 22,902; July 29.  
 Solenoids. L. Fuchs. 2,415,739; Feb. 11.  
 Solids and gases, Process and apparatus for contacting. R. C. Gunness. 2,428,872; Oct. 14.  
 Solids from liquids, Separating flocculatable and gritty. A. M. Kivari. 2,425,065; Aug. 5.  
 Solids in liquid suspension, Specific gravity separation of. H. L. McNeill. 2,422,203; June 17.  
 Solids of an oil separating tank, Screening and conveying. R. T. Anderson. 2,420,927; May 20.  
 Solids separator. W. H. Green. 2,429,315; Oct. 21.  
 Solids with gaseous fluids, Contacting. E. J. Le Roi and J. H. Johnsen. 2,415,756; Feb. 11.  
 Sols, Preparation of. M. D. Marshall. 2,433,776-9; Dec. 30.  
 Solutes, Fractionation. R. W. Shafor. 2,413,791; Jan. 7.  
 Solution for smoothing zinc surfaces. T. J. Wiczorek. 2,433,723; Dec. 30.  
 Solutions for the improved nebulization therapy of the lungs and bronchioles. H. A. Abramson. 2,414,918; Jan. 28.  
 Solutions of a synthetic linear polycarbonamide in a phenol containing alkaline material. W. W. Watkins. 2,431,783; Dec. 2.  
 Solutions of local anesthetics, Stabilized. W. F. Hamilton. 2,431,553; Nov. 25.  
 Solvent-extracted petroleum distillate with clay and lime, Treating a. R. K. Stratford and O. S. Pokorny. 2,420,108; May 6.  
 Solvent extraction. W. W. Crouch. 2,422,341; June 17.  
 Solvent for degreasing iron and aluminum. W. Klabunde. 2,422,556; June 17.  
 Solvent separation of hydrocarbons. H. V. Ashburn. 2,414,252; Jan. 14.  
 Sonic pump. W. S. Inglis. 2,428,460; Oct. 7.  
 Sorbose derivatives, Catalytic oxidation of. N. R. Trenner. 2,428,438; Oct. 7.  
 Sorting and counting machine, Paper money. T. E. Hayes. 2,429,159; Oct. 14.  
 Sorting device. P. Spurlino and K. Rauch. 2,416,598; Feb. 25.  
 Sorting machine, Card. N. S. Welk. 2,417,531; Mar. 18.  
 Sound amplifying means for stringed musical instruments of the violin family. C. E. Hull. 2,430,717; Nov. 11.  
 Sound, Apparatus and method for generating. A. Vang. 2,432,218; Dec. 9.  
 Sound deadener. O. C. Terrell. 2,424,004; July 15.  
 Sound detection system and apparatus. W. J. A. Bailey and H. A. Panissidi. 2,431,018; Nov. 18.  
 Sound direction finder. G. M. Giannini. 2,417,927; Mar. 25.  
 Sound effects during the production thereof, Visually comparing. B. Shipman and R. H. Guhl. 2,416,353; Feb. 25.  
 Sound motion pictures, Apparatus for and process of taking and showing. J. O'D. Shepherd. 2,420,798; May 20.  
 Sound-powered receiver, Variable sensitivity. N. T. Volsk. 2,414,129; Jan. 14.  
 Sound producing device, Pneumatic. W. C. Eaves. 2,428,269; Sept. 30.  
 Sound producing instrument. M. F. Miller. 2,414,656; Jan. 21.  
 Sound ranging, Method and apparatus for. E. E. Turner, Jr. 2,428,821; Oct. 14.  
 Sound recording and reproducing machines. J. M. Kuhlík. 2,417,651; Mar. 18.  
 Sound recording, Magnetic. S. D. Eilenberger. 2,431,739; Dec. 2.  
 Sound recording system, Preventing arcuate image motion in an optical. J. L. Underhill. 2,429,111; Oct. 14.  
 Sound reproducing system. W. S. Farrell. 2,413,700; Jan. 7.  
 Sound reproduction, Method of and system for enhancing. C. M. Sinnett. 2,420,204; May 6.  
 Sound track in multilayer film, Positive. C. H. Guell. 2,430,565; Nov. 11.  
 Sound translating device, Electromagnetic. J. J. Hyland and W. J. Muldoon. 2,432,424; Dec. 9.  
 Sounding mechanism for toy guns and the like. H. De W. Crisler. 2,418,399; Apr. 1.



- Sour composition, Noncaking laundry. L. R. McCoy. 2,426,836; Sept. 2.
- Soybean and similar glyceride oils, Treating. L. F. Henderson and L. H. Libby. 2,428,367; Oct. 7.
- Spaceband delivery mechanism. J. C. Plastaras. 2,413,780; Jan. 7.
- Space enclosure. C. D. Willson. 2,427,937; Sept. 23.
- Space heater. E. E. Maurer. 2,432,917; Dec. 16.
- Space heater and cook stove, Combined. M. Sveda. 2,428,183; Sept. 30.
- Space in ships and the like, Utilization of cargo. R. B. Gray and J. C. De Weese. Re. 22,876; May 13.
- Space resonant system. E. D. McArthur. 2,416,567; Feb. 25.
- Spaced wall heat insulated refrigerator cabinet. J. H. Ganzer. 2,427,048; Sept. 9.
- Spacer and support, Tube. J. D. Andrews, Jr. 2,415,068; Feb. 4.
- Spacer, Chick box. A. E. Miller. 2,417,008; Mar. 4.
- Spacer for coaxial cables, Insulating. E. R. Touraton. 2,428,051; Sept. 30.
- Spacer, Needle roller bearing. C. L. Knaak. 2,431,810; Dec. 2.
- Spacer ring. H. W. O'Connor. 2,423,848; July 15.
- Spacing mechanism for line-up and register tables. F. L. Dodge. 2,421,686; June 3.
- Spanner wrench. C. H. Barker. 2,420,458; May 13.
- Spare tire mounting. T. W. Stephenson and A. J. Schumaker. 2,433,169; Dec. 23.
- Spark control, Automatic. H. C. Hill. 2,427,407; Sept. 16.
- Spark gap device. W. W. Watrous, Jr. 2,422,324; June 17.
- Spark gap device with cold electrodes. E. G. F. Arnott and C. E. Dawley. 2,427,086; Sept. 9.
- Spark gap electrical apparatus. M. E. Haine, J. M. Meek, and J. D. Craggs. 2,433,755-6; Dec. 30.
- Spark gap, Rotary. I. Sager and E. Wiler. 2,425,757; Aug. 19.
- Spark gap, Rotary. E. M. Wiler and R. R. Hallen. 2,433,009; Dec. 23.
- Spark ignition system for internal-combustion engines, Electric. J. A. Laird. 2,433,462; Dec. 30.
- Spark plug. A. A. Kasarjian. 2,415,138; Feb. 4.
- Spark plug. F. B. Litton. 2,416,107; Feb. 18.
- Spark plug. C. H. Rinehart. 2,416,643; Feb. 25.
- Spark plug and oscillatory circuit, Combined. E. K. Von Mertens. 2,415,979; Feb. 18.
- Spatula, Ear. N. F. Brignola. 2,425,917; Aug. 19.
- Spatula with heat dissipating handle and telescoping fuel supply, Dental wax. H. M. Yeager and S. O. McCoy. 2,418,214; Apr. 1.
- Special emergency brake. E. F. Swartz. 2,433,581; Dec. 30.
- Spectacle and eyeglass case. J. E. Brown. 2,427,043; Sept. 9.
- Spectacle case. E. Nathan. 2,423,338; July 1.
- Spectacle case. E. Nathan. 2,430,240; Nov. 4.
- Spectacle case. M. J. Root, Jr. 2,433,483; Dec. 30.
- Spectacles. E. G. La Vista. 2,427,465; Sept. 16.
- Spectacles and filters therefor, Combined. S. R. Thornton. 2,423,272; July 1.
- Spectrochemical analysis apparatus, Direct reading. M. F. Hasler and R. W. Lindhurst. 2,420,077; May 6.
- Spectrometer, Mass. J. A. Hipple, Jr. 2,417,797; Mar. 18.
- Spectroscope, Adjustable folding. T. A. Cutting. 2,431,734; Dec. 2.
- Spectroscopic source unit. M. F. Hasler and R. W. Lindhurst. 2,417,489; Mar. 18.
- Speed and contrast of photographic emulsions, Increasing. A. P. H. Trivelli and W. F. Smith. 2,419,975; May 6.
- Speed-changing apparatus. F. Breckenridge. 2,429,509; Oct. 21.
- Speed control device. M. J. Duer. 2,422,343; June 17.
- Speed control, Induction motor. L. S. Williams. 2,419,431; Apr. 22.
- Speed control means for hydraulically operated machine tools, Feed. R. G. Le Tourneau. 2,422,357; June 17.
- Speed control, Motorboat. L. Whiting. 2,426,805; Sept. 2.
- Speed control of electric motors, Remote. J. L. Anderson. 2,420,346; May 13.
- Speed control system. C. J. Young. 2,427,175; Sept. 9.
- Speed control system and method, Electric motor. E. L. Tornquist. 2,422,147; June 10.
- Speed control valve. R. D. Bennett. 2,417,583; Mar. 18.
- Speed control valve. H. C. Hallerstrom. 2,418,634; Apr. 8.
- Speed equalizing landing wheel. E. M. Morrow. 2,421,156; May 27.
- Speed indicating apparatus. W. M. Paul. 2,430,825; Nov. 11.
- Speed indicator. L. Mackta. 2,426,228; Aug. 26.
- Speed indicator. L. B. Spengler. 2,430,690; Nov. 11.
- Speed mechanism for lathes, Change. C. W. Dyer. 2,426,299; Aug. 26.
- Speed mechanism, Variable. G. F. Laing. 2,422,306; June 17.
- Speed regulating apparatus for hydraulic presses. F. Katz. 2,426,692; Sept. 2.
- Speed regulating system. W. R. Harris and J. Z. Linsmeyer. 2,414,524; Jan. 21.
- Speed responsive controlled one-way engaging clutch. C. P. Heintze. 2,433,553; Dec. 30.
- Speed selector for gear boxes. L. J. T. Helmstein and K. J. W. Jansson. 2,429,160; Oct. 14.
- Speed varying gearing. W. B. Osborne. 2,417,944; Mar. 25.
- Spent bullet trap. D. T. Diem. 2,420,304; May 13.
- Spent material, Reclaiming. A. C. Christensen. 2,429,667; Oct. 28.
- Spherical tank. G. T. Horton. 2,427,076; Sept. 23.
- Spice wheel. H. F. and M. J. Spotts. 2,431,837; Dec. 2.
- Spike for golf shoes, Removable. D. Kramer. 2,421,072; May 27.
- Spike, Rail. H. Task. 2,432,697; Dec. 16.
- Spike, Sand. W. R. Calway. 2,414,358; Jan. 14.
- Spin vanes-control device for cooling fans in aircraft engines. H. E. Morton. 2,424,839; July 29.
- Spindle. A. Barsam, Jr. 2,430,598; Nov. 11.
- Spindle. T. J. Risk. 2,433,579; Dec. 30.
- Spindle automatic machine, Single. A. E. Drissner and K. W. Barkinen. 2,425,308; Aug. 12.
- Spindle, Diamond polishing disc supporting. J. C. Bartho. 2,416,141; Feb. 18.
- Spindle for spinning or twisting yarn, Cap holding. J. S. Smith. 2,417,525; Mar. 18.
- Spindle, Gelatin roll. E. W. Peterson. 2,414,893; Jan. 28.
- Spindle, Grommet. J. G. Hansen. 2,415,209; Feb. 4.
- Spindle, Machine tool. L. V. Colwell. 2,430,843; Nov. 11.
- Spindle moistening apparatus. D. B. Baker and C. R. Hagen. 2,433,083; Dec. 23.
- Spindle mounting. S. C. Nelson. 2,421,389; June 3.
- Spindle reciprocating mechanism, Grinding. C. G. Flygare and C. C. Alvord. 2,419,130; Apr. 15.
- Spindle shafts, Rejournaling. J. C. Wilson. 2,415,324; Feb. 4.
- Spindle structure. G. F. Yager. 2,422,061; June 10.
- Spindle structure. G. F. Yager. 2,430,752; Nov. 11.
- Spindle, Textile. J. A. Kennedy. 2,421,734; June 3.
- Spindle, Wrap. O. Fregeolle. 2,426,010; Aug. 19.
- Spinning guide, Bucket. S. C. Nelson. 2,423,721; July 8.
- Spinning machine, Artificial fiber. R. W. Stanley. 2,427,373; Sept. 16.
- Spinning solutions, Production of. G. H. Fremont. 2,413,758.
- Spinning synthetic shapes, Method and apparatus for. G. T. Detwiler, M. P. Kulp, S. A. Moss, Jr., and H. D. Merion. 2,416,291; Feb. 25.
- Splash guard, Water-cooled solder. L. Michelot. 2,426,837; Sept. 2.
- Spint. C. Greppi. 2,423,496; July 8.
- Spint, Abduction. H. H. Jordan. 2,415,288; Feb. 4.
- Spint and the like. S. P. Lovell. 2,419,358; Apr. 22.
- Spint-stretcher frame. W. W. Robinson. 2,417,378; Mar. 11.
- Split packing ring coupling. S. V. Dillon. 2,417,741; Mar. 18.
- Split-phase motor thermal starting switch. H. F. Clark. 2,417,912; Mar. 25.
- Splitter, Bean and pea pod. G. D. Evernden. 2,418,581; Apr. 8.
- Splitting and pitting device, Fruit. D. E. Prenveille. 2,417,174; Mar. 11.
- Splitting machine. C. F. Fitzgerald. 2,433,038; Dec. 23.
- Splitting machine. C. E. Johnson. 2,423,500; July 8.
- Sponge rubber mop and sheet holder. J. E. Horn. 2,429,626; Oct. 28.
- Spool-changing mechanism for looms. J. Marlet Barrera. 2,429,977; Nov. 4.
- Spool, Roving. A. Rancourt. 2,425,827; Aug. 19.
- Spooling. J. Cook. 2,424,021; July 15.
- Spooling mechanism for cable winches. E. Barker. 2,424,380; July 22.
- Spoon, Dentist's measuring. A. H. Stith. 2,420,505; May 13.
- Spot facing machine. W. G. Smith and J. L. Neys. 2,415,569; Feb. 11.
- Spot setting device. G. Wolff. 2,425,586; Aug. 12.
- Spot-signal lamp. H. R. Gross. 2,414,807; Jan. 28.
- Spot-welding machine. W. B. Ellwood. 2,421,021; May 27.
- Spot welding, Method and apparatus for. P. E. Brunberg. 2,416,374; Feb. 25.
- Spotting device for freight transfer apparatus. H. W. Shonnard. 2,416,071; Feb. 18.
- Spotting rack apparatus. J. G. Smith. 2,414,983; Jan. 28.
- Spout for grain elevators, Distributing. H. D. Perkins. 2,416,065; Feb. 18.
- Spout for sintering machines, Swinging. M. L. Cover. 2,422,470; June 17.
- Spout, Revolvable can. W. E. Stephenson. 2,430,147; Nov. 4.
- Sprag brake for automobiles. A. A. Simcich. 2,427,424; Sept. 16.
- Spray coating articles, Method and apparatus for. W. A. Starkey. 2,425,652; Aug. 12.
- Spray device. C. A. Stine. 2,417,222; Mar. 11.
- Spray gun and spraying. A. J. Lampe. 2,433,463; Dec. 30.
- Spray gun, Heated portable. A. S. Pitre, T. M. Lauer, M. Maloof, and R. L. Rogers. 2,426,641; Sept. 2.



- Spray, Insecticidal oil. C. K. Hewes. 2,426,214; Aug. 26.  
 Spray oil, Horticultural. P. R. Jones. 2,421,507; June 3.  
 Sprayer, Insect powder. A. Danziger. 2,432,288; Dec. 9.  
 Sprayer, Multiple nozzle self-propelled. N. J. Iverson. 2,425,940; Aug. 19.  
 Sprayer, Power. H. W. Gore. 2,432,309; Dec. 9.  
 Spraying apparatus. J. P. Jason. 2,413,710; Jan. 7.  
 Spraying apparatus, Tree and orchard. C. R. Shade. 2,429,374; Oct. 21.  
 Spraying cone tops. P. E. Pearson and A. Treff. 2,432,795; Dec. 16.  
 Spraying device for coating the inside of pipe. C. V. Queen. 2,428,292; Sept. 30.  
 Spraying machine. G. W. Daugherty. 2,423,008; June 24.  
 Spraying machine. E. O. Keathley. 2,424,468; July 22.  
 Spraying method, Metal. R. Erhardt. 2,423,490; July 8.  
 Sprays, Fly. S. I. Gertler and H. L. J. Haller. 2,428,844; Oct. 14.  
 Spreader, Clay. F. M. Kinnard. 2,417,255; Mar. 11.  
 Spreader, Cotter pin. S. J. Strid. 2,431,664; Nov. 25.  
 Spreader for fertilizers and the like. H. C. Johnson. 2,430,020; Nov. 4.  
 Spreader, Injection molding machine. N. Lester. 2,428,315; Sept. 30.  
 Spreader, Manure. W. F. Schmied. 2,416,224; Feb. 18.  
 Spreader, Self-loading material. A. G. Gurries and J. A. White, Jr. 2,419,262; Apr. 22.  
 Spreader stoker apparatus. D. J. Mosshart. 2,418,042; Mar. 25.  
 Spreader stoker apparatus. D. J. Mosshart. 2,423,110; July 1.  
 Spreader tool. M. Mayer. 2,424,407; July 22.  
 Spreading attachment. W. A. Lutz. 2,421,211; May 27.  
 Spreading machine. R. Comtois. 2,418,546; Apr. 8.  
 Spring: See—  
   Seat spring.  
 Spring and alloy for timepieces, Compensating. S. Dinerstein. 2,419,825; Apr. 29.  
 Spring and friction shock absorbing mechanism, Railway draft. G. E. Dath. 2,425,364; Aug. 12.  
 Spring assembly for automatic push rods, Torsion. H. H. Engemann. 2,424,389; July 22.  
 Spring clip. O. J. Poupitch. 2,428,338; Sept. 30.  
 Spring constructions, Forming and assembling inner. E. E. Woller. 2,420,512; May 13.  
 Spring controlled index registering photoelectric exposure meter. E. W. Clark. 2,433,648; Dec. 30.  
 Spring cover. N. E. Shockey. 2,423,159; July 1.  
 Spring device. J. K. Wood. 2,421,822; June 10.  
 Spring filling for mattresses, sofas, seats, cushions, or the like. H. Buttner. 2,424,382; July 22.  
 Spring for upholstery, Nonmetallic. J. J. Schaefer. 2,415,374; Feb. 4.  
 Spring group. L. A. Lehrman and F. E. Bachman. 2,427,864; Sept. 23.  
 Spring lock panel receptacle. H. Hubbell and J. F. Healy, Jr. 2,427,001; Sept. 9.  
 Spring motor mounting. R. Pudelko and E. Widmer. 2,431,503; Nov. 25.  
 Spring motor regulator. A. Zaverl. 2,429,040; Oct. 14.  
 Spring pressed overload release clutch. R. K. Jeffrey. 2,426,351; Aug. 26.  
 Spring-suspension and steerable wheel assembly for straddle trucks. W. A. Barr. 2,415,928; Feb. 18.  
 Spring suspension for tandem axle vehicles. J. J. Black. 2,424,141; July 15.  
 Spring suspension for vehicles. T. F. Rainsford. 2,415,533; Feb. 11.  
 Spring time mounting. M. W. Bloom. 2,432,653; Dec. 16.  
 Spring unit, Friction. H. E. Tucker. 2,428,504; Oct. 7.  
 Spring unit, Slat type. R. Winters. 2,432,361; Dec. 9.  
 Spring wheel. C. E. Dickerson. 2,423,690; July 8.  
 Spring with tubular or sheathlike elastic covering, Washer type compression. E. W. Berger. 2,432,717; Dec. 16.  
 Springs, Manufacture of leaf. G. Mora. 2,430,529; Nov. 11.  
 Sprinkler. S. W. Yoder. 2,417,228; Mar. 11.  
 Sprinkler head. D. F. Dunham. 2,421,551; June 3.  
 Sprinkler head shutoff tool. J. A. Nelsen and H. G. Finlay. 2,417,265; Mar. 11.  
 Sprinkler, Lawn. H. Freygang. 2,426,603; Sept. 2.  
 Sprinkler, Lawn. T. S. Martin. 2,414,052; Jan. 7.  
 Sprinkler unit. H. G. Freeman. 2,418,765; Apr. 8.  
 Sprinkler unit. D. E. Wadsworth. 2,421,103; May 27.  
 Sprocket or gear. R. G. Wolfe. 2,429,008; Oct. 14.  
 Spur holder. D. H. Smith. 2,432,102; Dec. 9.  
 Squaring device of the electron tube type, Mathematical. M. T. Bagley. 2,428,541; Oct. 7.  
 Stabilizer and plasticizer for vinyl resins. E. H. Sorg. 2,414,399; Jan. 14.  
 Stabilizer apparatus. F. W. Godsey, Jr. 2,416,300; Feb. 25.  
 Stabilizer for aircraft, Landing. J. Spiegel. 2,416,961; Mar. 4.  
 Stabilizer for motor-driven vehicle. C. A. Cracraft. 2,425,787; Aug. 19.  
 Stabilizer for pressure fluid servomotors. A. G. Larson. 2,431,759; Dec. 2.  
 Stabilizer for process controllers. F. D. Burns. 2,416,980; Mar. 4.  
 Stabilizer for reciprocating pumps or compressors, Pressure. J. A. Lupfer. 2,430,723; Nov. 11.  
 Stabilizer for rotary wing aircraft, Horizontal. M. E. Gluhareff. 2,424,882; July 29.  
 Stabilizing apparatus. G. R. Douglas. 2,417,066; Mar. 11.  
 Stabilizing device. A. G. Larson. 2,418,037; Mar. 25.  
 Stabilizing the control of a frequency modulated ultra-short wave. H. F. Rost, K. H. Thunell, S. D. Vignen, and P. H. E. Claesson. 2,420,264; May 6.  
 Stable frequency conversion system. H. de France. 2,420,303; May 13.  
 Stacked articles, Storing. W. J. Gibbs. 2,426,995; Sept. 9.  
 Stacking and loading equipment, Block. G. E. Lamb. 2,413,979; Jan. 7.  
 Stacking and tying medical compresses or the like, Method and apparatus for. R. S. Edwards. 2,418,550; Apr. 8.  
 Stacking device. C. H. Domville, Jr., and E. E. Gray. 2,423,691; July 8.  
 Stacking device. R. I. Kuffler and S. M. Renfrew. 2,424,761; July 29.  
 Stacking machine. W. J. King. 2,420,828; May 20.  
 Stacking of containers, Means facilitating. A. G. Liebmann. 2,429,958; Oct. 28.  
 Stage plug. J. H. Lytgens. 2,424,405; July 22.  
 Stair pad. N. Stein. 2,427,631; Sept. 16.  
 Stake and lock, Combination plant. T. Sheridan. 2,425,049; Aug. 5.  
 Stalk cutter. W. H. Greenroyd. 2,422,409; June 17.  
 Stall warning device. W. W. Remy. 2,424,946; July 29.  
 Stamp pad. C. F. Alexander. 2,422,814; June 24.  
 Stamped chain connector. R. J. Howison. 2,413,829; Jan. 7.  
 Stanchion, Cow. A. Nickell. 2,419,788; Apr. 29.  
 Stand: See—  
   Barrel stand. Generator testing stand.  
   Base stand. Interchangeable coil stand.  
   Bicycle stand. Iron stand.  
   Christmas tree stand. Motion-picture projector stand.  
   Collapsible display stand. Pack stand.  
   Collapsible stand. Portable engine-maintenance stand.  
   Compass card refinishing stand. Roll stand.  
   Convertible music stand. Tire inflation stand.  
   Display stand. Train order stand.  
   Drum stand.  
   Folding music stand.  
 Stand and making the same. J. R. Harris. 2,427,139; Sept. 9.  
 Stand, chair, and screen, Combination of telephone. A. Nicholas. 2,430,241; Nov. 4.  
 Stand for cameras, Portable and collapsible. H. K. Lindsey. 2,433,133; Dec. 23.  
 Stand for dishwashing machines. O. Lindeblad. 2,433,823; Dec. 30.  
 Stand for sewing machines, Thread. C. C. Smith. 2,430,832; Nov. 11.  
 Stand for smoker's pipes and the like. H. T. Still. 2,433,170; Dec. 23.  
 Stand or carrier for outboard motors. T. F. Hammermiller. 2,414,946; Jan. 28.  
 Stand or holder for Christmas trees or the like. J. A. Womack. 2,419,183; Apr. 15.  
 Stand with memoranda paper supply, Calendar. H. G. Davis. 2,422,474; June 17.  
 Stand with memoranda paper supply device, Calendar. H. G. Davis. 2,425,925; Aug. 19.  
 Staple, Double ended. J. C. Lang. 2,417,423; Mar. 18.  
 Staple element. L. B. Lynn. 2,417,081; Mar. 11.  
 Staple former and stapling apparatus, Wire. H. O. Irmischer. 2,428,026; Sept. 30.  
 Staple remover. F. R. Curtiss. 2,431,922; Dec. 2.  
 Staple supporter for stapling machines. A. I. Ericsson. 2,431,548; Nov. 25.  
 Stapler with automatic slide lock. R. E. Peterson. 2,433,155; Dec. 23.  
 Stapling device. H. J. Spencer. 2,427,028; Sept. 9.  
 Stapling machine. S. A. Crosby. 2,424,649; July 29.  
 Stapling machine. T. J. Finn. 2,417,817; Mar. 25.  
 Stapling machine. L. Obstfeld. 2,421,429; June 3.  
 Stapling machine. R. A. Percoco. 2,427,156; Sept. 9.  
 Stapling mechanism. J. N. Pagliarulo. 2,414,390; Jan. 14.  
 Stapling method and apparatus. J. C. Lang. 2,431,812; Dec. 2.  
 Starch and making the same, Dissociated. G. V. Caesar and T. D. Thompson. 2,417,969; Mar. 25.  
 Starch compositions and preparing the same, Liquid. J. S. and E. A. Pecker. 2,424,050; July 15.  
 Starch for tub sizing paper. J. C. Marrone. 2,433,285; Dec. 23.  
 Starch granules, Waxy. H. H. Schopmeyer. 2,431,512; Nov. 25.  
 Starch modification process. D. W. Hansen. 2,432,195; Dec. 9.  
 Starch pan attachment for clothes wringers. C. E. Pickens. 2,424,051; July 15.  
 Starch, Pregelatinized waxy. H. H. Schopmeyer and G. E. Felton. 2,427,328; Sept. 9.  
 Starch process, Wheat. R. W. Callaghan and R. H. Schilling. 2,418,621; Apr. 8.  
 Starch process, Wheat. R. H. Schilling. 2,418,669; Apr. 8.



- Starch product and the like and inhibitor and preparing the inhibitor, Noncongealing. H. T. Neumann. 2,417,515; Mar. 18.
- Starch product, Making insoluble. G. G. Pierson. 2,417,611; Mar. 18.
- Starter and lock for fire escape panels. J. Needre. 2,424,366; July 22.
- Starter, Engine. J. E. Buxton. 2,428,750; Oct. 7.
- Starter for electric discharge devices, Glow. R. J. McKenzie. 2,426,463; Aug. 26.
- Starter for electric discharge devices, Glow. A. L. Peacock and C. L. Sinclair. 2,432,488; Dec. 9.
- Starter for electric motors. E. P. Smith. 2,417,710; Mar. 18.
- Starter for free piston motor compressors. P. Müllejans and F. Neugebauer. 2,423,720; July 8.
- Starter for internal-combustion engines. D. L. Miller. 2,420,289; May 6.
- Starter switch. C. Penk. 2,421,519; June 3.
- Starting arrangement for synchronous motors, Automatic. L. W. Germany. 2,421,931; June 10.
- Starting device for internal-combustion engines. A. Lee. 2,425,946; Aug. 19.
- Starting gate. B. Steele. 2,414,984; Jan. 28.
- Starting mechanism. J. E. Buxton and D. L. Miller. 2,420,283; May 6.
- Starting mixture. S. J. Magram. 2,421,029; May 27.
- Station control, Multiple. A. E. Kremiller. 2,426,695; Sept. 2.
- Station for telephone systems, Subscriber's. C. M. Theilmaus. 2,423,127; July 1.
- Station selector system. F. S. Kinkead. 2,416,699; Mar. 4.
- Stationary magazine loom. J. Stuer. 2,418,101; Mar. 25.
- Statistical machine controlled by colored photographic film. J. W. Bryce. 2,431,024; Nov. 18.
- Statistical machine controlled by magnetic, frequency coded records. J. W. Bryce. 2,427,383; Sept. 16.
- Statistical system. A. N. Goldsmith. 2,413,965; Jan. 7.
- Stator-shell for electric motors. A. B. Poole. 2,421,906; June 10.
- Stator winding device. R. F. Brennen. 2,416,735; Mar. 4.
- Steam boiler. N. M. Lower. 2,419,150; Apr. 15.
- Steam boiler furnace. J. R. Evans. 2,426,004; Aug. 19.
- Steam construction, Valve. E. C. Steiner. 2,418,674; Apr. 8.
- Steam electric iron. F. Busch and A. Wild. 2,419,705; Apr. 29.
- Steam electric iron. H. W. Clum. 2,425,598; Aug. 12.
- Steam electric iron. W. C. Hume. 2,418,511; Apr. 8.
- Steam electric sad iron. L. S. Butman. 2,427,521; Sept. 16.
- Steam flashing power-generating apparatus and method with feed and furnace regulation, Hot-water. J. Steving, Jr. 2,429,035; Oct. 14.
- Steam for woven wire belts and making the same. D. C. Dilley and R. McGregor. 2,414,935; Jan. 28.
- Steam generating device, Electrical. W. C. Lamphier. 2,430,347; Nov. 4.
- Steam generator. J. P. Badenhausen. 2,414,848; Jan. 28.
- Steam generator. D. S. Binnington. 2,421,311; May 27.
- Steam generator. J. Blizard. 2,430,446; Nov. 11.
- Steam generator. M. H. Kuhner. 2,421,074; May 27.
- Steam generator. K. A. McCurdy. 2,419,582; Apr. 29.
- Steam iron. W. C. Hume. 2,433,556; Dec. 30.
- Steam iron. E. O. Morton. 2,432,205; Dec. 9.
- Steam joint. R. Carpenter. 2,424,969; Aug. 5.
- Steam locomotive boiler. C. D. Barrett. 2,417,343; Mar. 11.
- Steam purifying apparatus. L. V. Andrews and G. A. Rehm. 2,424,212; July 22.
- Steam separator. A. J. Wegmann. 2,418,381; Apr. 1.
- Steam trap. W. J. Donnelly. 2,421,144; May 27.
- Steamer and stretcher, Garment sleeve. C. R. Lendle. 2,423,509; July 8.
- Steamer, Garment. C. R. Lendle. 2,425,194; Aug. 5.
- Steaming and pressing iron. S. Dowinsky. 2,427,264; Sept. 9.
- Steel, Alloy. J. Z. Briggs. 2,429,800; Oct. 28.
- Steel, Alloy. L. C. Selmi and C. L. Altenburger. 2,416,648-9; Feb. 25.
- Steel and articles made therefrom, High temperature alloy. C. T. Evans, Jr. 2,416,515; Feb. 25.
- Steel articles, Chroming. G. Becker, K. Daves, and F. Steinberg. 2,415,078; Feb. 4.
- Steel articles, Electrolytically treating stainless. K. M. Huston. 2,422,903; June 24.
- Steel articles, Treatment of. G. E. Hutchinson. 2,418,935; Apr. 15.
- Steel barrel plug wrench. G. B. Umbdenstock. 2,421,665; June 3.
- Steel, Coloring stainless. I. C. Clingan. 2,431,986; Dec. 2.
- Steel converter and the like. H. J. Daussan. 2,415,165; Feb. 4.
- Steel for Hawaiian guitars. F. J. Smith. 2,416,854; Mar. 4.
- Steel, Method and apparatus for heating. W. A. Morton. 2,430,477; Nov. 11.
- Steel, Production of stainless. A. L. Feild. 2,430,117; Nov. 4.
- Steel, Production of stainless. D. L. Loveless. 2,430,131; Nov. 4.
- Steering apparatus. H. V. Putman and M. G. Leonard. 2,419,164; Apr. 15.
- Steering apparatus, Automatic. V. H. Severy. 2,424,288; July 22.
- Steering apparatus, Marine-vessel. T. W. Sprake. 2,426,374; Aug. 26.
- Steering column gearshift support construction, Concentric. J. J. Wharam and M. Jovanovich. 2,420,333; May 13.
- Steering control mechanism. T. H. and W. H. Briggs. 2,424,912; July 29.
- Steering control solenoid structure. W. B. Elmer. 2,432,869; Dec. 16.
- Steering mechanism. W. D. Allison. 2,427,340; Sept. 16.
- Steering mechanism, Dual. E. W. Barnhart. 2,421,139; May 27.
- Steering mechanism for automobiles. J. C. Bartho. 2,432,869; Dec. 9.
- Steering mechanism for industrial trucks. E. J. Abbe. 2,429,302; Oct. 21.
- Steering mechanism, Power. H. D. Hukill. 2,429,185; Oct. 14.
- Steering wheel. H. F. George. 2,425,240; Aug. 5.
- Steering wheel device. B. W. Taylor. 2,425,055; Aug. 5.
- Stem for electrical space discharge devices. P. L. Spencer. Re. 22,851; Mar. 11.
- Stencil panel removing apparatus. H. P. Elliott. 2,414,937; Jan. 28.
- Stencil, Transferable silk screen. E. C. Bowers. 2,429,986; Nov. 4.
- Stenographic machine. W. A. Ayres. 2,428,605; Oct. 7.
- Step-by-step electric motor. A. W. Plensler. 2,427,875; Sept. 23.
- Step-by-step motor. P. V. Kolff. 2,428,882; Oct. 14.
- Step for ladders, Detachable. R. A. Yothers. 2,415,327; Feb. 4.
- Step for ladders, Folding. E. J. Jury. 2,415,289; Feb. 4.
- Stepladder construction. E. D. Boisselier. 2,425,025; Aug. 5.
- Stereoscopic range and height finder with adjustable reticles. L. M. Applegate. 2,425,713; Aug. 19.
- Stereoscopic range indicator. W. A. Ayres. 2,426,979; Sept. 9.
- Stereotelevision and television range finding. F. W. Reynolds. 2,417,446; Mar. 18.
- Sterile packages, Producing. J. N. Masel. 2,433,056; Dec. 23.
- Sterilizer. L. B. Meyerson. Re. 22,832; Jan. 21.
- Sterilizer, Brush and comb. V. Jackel. 2,424,036; July 15.
- Sterilizer for receptacle washers. C. L. Trier and J. H. Livingston. 2,424,342; July 22.
- Sterilizer for surgical instruments. E. S. Blocher. 2,417,626; Mar. 18.
- Sterilizer, Ultraviolet. G. E. Glatthar and J. Terr. 2,413,704; Jan. 7.
- Sterilizing rack. G. A. Anderson. 2,419,191; Apr. 22.
- Sterilizing solutions, Cold. G. H. Conant, Jr. 2,422,951; June 24.
- Steroid compounds and preparing the same. R. E. Marker and E. L. Wittle. 2,430,988; Nov. 18.
- Steroid hormone intermediates. R. E. Marker. 2,418,181; Apr. 1.
- Stethoscope. J. Brandenburg. 2,414,850; Jan. 28.
- Stethoscope, Amplified. M. F. Thibos. 2,419,471; Apr. 22.
- Stick arrangement. H. B. Rudd. 2,414,245; Jan. 14.
- Stick, Clothes. J. H. Norman. 2,413,776; Jan. 7.
- Stick for looms, Picker. D. L. Norris, Sr., and W. N. Cundiff. 2,419,086; Apr. 15.
- Stiffener, Shank. F. P. Wagner. 2,425,707; Aug. 12.
- Still head condenser. H. G. Hornbacher and L. E. Lloyd. 2,427,142; Sept. 9.
- Still, Portable sea water. J. De Stefano. 2,420,819; May 20.
- Still with vapor separator. J. S. Rowntree. 2,423,205; July 1.
- Still with vertically movable heater. W. T. S. Montgomery. 2,431,820; Dec. 2.
- Stitch regulating and reversing mechanism for sewing machines. M. G. Ivandick. 2,420,480; May 13.
- Stitching. W. Schwartz. 2,427,023; Sept. 9.
- Stitching machine. W. R. Spiller and R. J. Niederhauser. 2,424,717; July 29.
- Stitching machine. G. A. Weingartner. 2,415,923; Feb. 18.
- Stock cutting and burnishing tool. G. W. White. 2,431,654; Nov. 25.
- Stock feeding device. J. T. Gifford and P. O. Esmay. 2,417,484; Mar. 18.
- Stock for automatic firearms, Folding. G. W. Patchett. 2,424,944; July 29.
- Stock for firearms, Extensible shoulder. F. W. Sampson and G. J. Hyde. 2,424,194; July 15.
- Stock for pistols, Auxiliary. E. B. Parsons. 2,433,151; Dec. 23.
- Stock watering tank. C. Fine. 2,430,165; Nov. 4.
- Stocking guard. H. B. Gygi. 2,422,669; June 24.
- Stockings, Making and finishing. W. Larkin. 2,420,960; May 20.
- Stockings, Making single unit. O. H. Pons. 2,432,679; Dec. 16.



- Stoker and furnace, Combined. G. H. Cushing. 2,414,802; Jan. 28.
- Stoker apparatus. D. J. Mosshart. 2,425,633; Aug. 12.
- Stoker apparatus. L. C. Neufeld. 2,425,339; Aug. 12.
- Stoker control. E. K. Scoggin. Re. 22,898; July 15.
- Stoker control, Automatic multiple. F. M. Miller, A. C. Shape, W. H. McClelland, and G. C. Fay. 2,418,272; Apr. 1.
- Stoker pusher bar. J. S. Skelly. 2,433,713; Dec. 30.
- Stonecutting clamp. M. A. Moeller. 2,420,790; May 20.
- Stool and stepladder, Combination. E. M. Keen. 2,433,699; Dec. 30.
- Stool and the like, Adjustable. C. Vitek. 2,415,663; Feb. 11.
- Stool, Collapsible. M. A. Lopes. 2,425,196; Aug. 5.
- Stool, Milk. M. Black. 2,425,413; Aug. 12.
- Stop and release mechanism, Card. E. H. Grogan. 2,415,557; Feb. 11.
- Stop, Burglar. W. Hilton. 2,425,937; Aug. 19.
- Stop for electric drills. D. N. Goldberg. 2,430,812; Nov. 11.
- Stop for slide fasteners, Top. C. D. Gould. 2,422,091; June 10.
- Stop mechanism. P. E. H. Eichinger. 2,419,513; Apr. 22.
- Stop mechanism for knitting machines. S. A. Wytovich. 2,418,444; Apr. 1.
- Stop mechanism for lever operated tools. H. W. Porter and J. W. Geddes. 2,429,895; Oct. 28.
- Stop motion for spinning and like textile frames. G. S. Fraser. 2,421,555; June 3.
- Stop motion mechanism. C. W. Arrowwood. 2,420,513; May 13.
- Stop motion system for knitting machines. E. Vossen. 2,432,953; Dec. 16.
- Stop motion, Wrap stripe. C. A. Fogleman and H. G. Whittington. 2,430,633; Nov. 11.
- Stop, Resilient zero. E. F. Dyson. 2,420,527; May 13.
- Stopper, Combination drip. A. H. Gee. 2,426,733; Sept. 2.
- Stopper for containers, Pressure relief. G. A. Hall. 2,428,114; Sept. 30.
- Stopper, Leakproof. J. J. A. Jackson. 2,424,930; July 29.
- Stopper, Pipe-line. F. H. Mueller and J. J. Smith. 2,425,483; Aug. 12.
- Stopper, Vacuum drain. B. P. Smith. 2,425,964; Aug. 19.
- Stopping and supporting device, Container door. H. Steinhorst. 2,417,401; Mar. 11.
- Storage battery. J. R. Smyth. 2,416,651; Feb. 25.
- Storage battery electric heater. H. C. Riggs. 2,418,792; Apr. 8.
- Storage battery plate and separator assembly. G. N. Proctor. 2,422,130; June 10.
- Storage battery, Replaceable cell. R. C. Isabell and J. Sawdon. 2,415,694; Feb. 11.
- Storage tank. G. T. Horton. 2,431,693; Dec. 2.
- Storage warehouse providing for the dissipation of moisture released from stored dehydrated fruits. E. L. Roberts. 2,422,987; June 24.
- Store service rack. S. N. Goldman. 2,424,355; July 22.
- Storm window. B. D. Levine. 2,430,615; Nov. 11.
- Storm window. J. Sylvan. 2,419,425; Apr. 22.
- Stove. H. M. Reeves. 2,433,785; Dec. 30.
- Stove and range, Cook. J. French. 2,417,977; Mar. 25.
- Stove arrangement, Electrical. J. Cash. 2,422,950; June 24.
- Stove comprising relatively rotatable annular walls, Drying. R. B. Bloore. 2,424,213; July 22.
- Stove construction. C. W. Avery. 2,418,152; Apr. 1.
- Stove control, Electric. A. R. Visitation. 2,417,223; Mar. 11.
- Stove, Cooking. H. W. Sanford and W. P. Biddle, Jr. 2,417,842; Mar. 25.
- Stove, Cooking. W. S. Tandler. 2,425,271; Aug. 5.
- Stove, Hot blast. C. G. Hogberg. 2,420,373; May 13.
- Stove, Magazine. O. T. Tindell, Jr. 2,419,379; Apr. 22.
- Stovepipe T-fitting and closure, Combination. L. K. Weinstein. 2,416,075; Feb. 18.
- Stove, Windowed cooking. E. D. Pellegrin. 2,428,987; Oct. 14.
- Stove with gas combustion chamber, Magazine. P. Wingert. 2,430,594; Nov. 11.
- Stove with gas combustion chamber, Magazine heating. G. Klein and P. S. Martin. 2,420,781; May 20.
- Stove with internal air chamber. A. F. P. Stenzy. 2,417,138; Mar. 11.
- Straight-bar knitting machine. S. W. B. Lacey. 2,416,527; Feb. 25.
- Straightening apparatus. A. V. de Forest. 2,426,390; Aug. 26.
- Strain measuring apparatus. N. H. Roy. 2,428,433; Oct. 7.
- Strain relief for electrical conductors. L. J. Irrgang. 2,420,826; May 20.
- Strain responsive apparatus. A. C. Ruge. 2,416,664; Feb. 25.
- Strainer, Automatic self-cleaning water. F. R. Magill. 2,429,417; Oct. 21.
- Strainer construction, Fluid. A. Zech. 2,427,320; Sept. 9.
- Strainer for cellar drains. R. H. Broadman. 2,433,423; Dec. 30.
- Strainer, Milk. F. B. Carkhuff. 2,413,742; Jan. 7.
- Strand tensioning apparatus. E. E. Franz. 2,425,525; Aug. 12.
- Strap and clamp for looms, Jack. J. A. Roach. 2,426,975; Sept. 2.
- Strap and fastener means therefor, Garment shoulder. V. A. Patterson. 2,423,046; June 24.
- Strap clamping means, Releasable. A. P. D. Belanger. 2,430,754; Nov. 11.
- Strap, Electric cable. J. M. Anderson. 2,418,539; Apr. 8.
- Strap for picker sticks, Check. R. B. Etchier. 2,429,348; Oct. 21.
- Strap for slips and the like, Crisscross back. M. Schwartz. 2,432,821; Dec. 16.
- Strap, Watch. E. Lackow. 2,420,435; May 13.
- Strap, Wrist. K. E. Shearon. 2,433,712; Dec. 30.
- Strap, Wrist watch. S. Friedman. 2,432,661; Dec. 16.
- Strapping machine. A. M. Kamper and S. Parkes. 2,422,643; June 17.
- Streptothricin, Production of. J. W. Foster and H. B. Woodruff. 2,422,230; June 17.
- Stretcher, Curtain. W. W. Block. 2,429,256; Oct. 21.
- Stretcher, Glove. S. Sufko. 2,431,209; Nov. 18.
- Stretcher, Wire. R. F. Roach. 2,423,903; July 15.
- Stretching and drying device. G. W. Johnson. 2,426,614; Sept. 2.
- Stretching machine. W. F. Moon. 2,415,185; Feb. 4.
- Stretchwrapping device. J. F. Vincent. 2,425,581; Aug. 12.
- String or the like, Manufacture of. J. H. Watson, H. E. Anderson, and E. R. Angel. 2,419,328; Apr. 22.
- Strip, Brightening tinned. C. G. Jones. 2,420,377; May 13.
- Strip edge infolding machine. A. G. Gilbert. 2,430,463; Nov. 11.
- Strip feed mechanism, Intermittent. L. A. McNabb. 2,427,294; Sept. 9.
- Strip for panel members, Packing and sealing. G. B. Haas. 2,430,873; Nov. 18.
- Strip material. J. T. Cooper. 2,418,758; Apr. 8.
- Strip material, Gripping and lifting. J. Breslav. 2,418,692; Apr. 8.
- Strip material, Method and apparatus for vulcanizing. G. D. Marcy. 2,418,976; Apr. 15.
- Strip of photo print paper, Method and apparatus for processing. G. M. Dye and R. B. Maddock. 2,428,790; Oct. 14.
- Strip working apparatus. R. L. Hallman. 2,423,698; July 8.
- Stripper reel. R. B. Worden. 2,428,324; Sept. 30.
- Stripper, Wire. W. F. Cunny and H. E. King. 2,422,776; June 24.
- Stripping arrangement for dies, Universal. C. L. Hornberger. 2,417,414; Mar. 18.
- Stripping carding apparatus. W. H. Goldsmith, Jr. 2,422,011; June 10.
- Stripping machine. L. E. Shaner. 2,413,999; Jan. 7.
- Stripping, Weather. G. Abrams. 2,428,731; Oct. 7.
- Stroboscope. R. T. Bayne. 2,421,182; May 27.
- Stroboscopic cathode-ray oscilloscope system for comparing two frequencies. R. T. Adams. 2,426,721; Sept. 2.
- Stroboscopic load position indicator. M. N. Yardeny and R. Bernas. 2,414,916; Jan. 28.
- Stroboscopic tuning apparatus. J. H. Mayberry. 2,415,215; Feb. 4.
- Stroke control for free-piston units. A. Kallitinsky. 2,426,307-8; Aug. 26.
- Stroke governor for free piston engines. F. M. Lewis. 2,430,066; Nov. 4.
- Stroller, Baby. G. B. Hansburg. 2,428,935; Oct. 14.
- Stroller, Child's. P. C. Little and M. W. Sparrow. 2,425,253; Aug. 5.
- Stroller, Collapsible. T. S. Lindabury. 2,429,763; Oct. 28.
- Strontium peroxide and making the same. M. J. Rentschler. 2,415,443; Feb. 11.
- Structural connection, Flexible welded. E. Scheyer. Re. 22,905; Aug. 12.
- Structural element made from paper and like sheets. G. May. 2,428,979; Oct. 14.
- Structural material for aircraft. G. B. Rheinfank, Jr. 2,414,125; Jan. 14.
- Structural material, Preformed. R. A. MacArthur and H. W. Greider. 2,415,647; Feb. 11.
- Structural member. R. C. Johnston. 2,432,622; Dec. 16.
- Structural members formed of metal and timber. D. H. Green. 2,421,197; May 27.
- Structural product. J. A. Robertson, T. P. Camp, and C. N. Kolmodin. 2,427,879; Sept. 23.
- Structural sheet, Stiff. R. E. Miskelly and R. L. Drew. 2,429,235; Oct. 21.
- Structural unit and cellular construction made therewith. E. F. Engstrom. 2,424,080; July 15.
- Structural unit, Reinforce supporting. D. H. Bitney. 2,428,137; Sept. 30.
- Structure and method, Laminated. E. L. Vidal and L. J. Marhoefer. 2,431,214; Nov. 18.
- Structure, Building. J. C. Greter. 2,428,154; Sept. 30.
- Structure for aircraft and the like, Amphibian supporting and propelling. H. T. Avery. 2,429,975; Nov. 4.
- Structure for carburetor, Anti-percolator. H. A. Carlson. 2,418,011; Mar. 25.
- Structure for circuit breakers, Electromagnetic. W. M. Scott, Jr. 2,416,458; Feb. 25.
- Structure for cooking stoves or ranges, Top. S. C. Salter, R. C. Lang, and J. M. Cook. 2,429,279; Oct. 21.



- Structure for suspending a guide bar from a bracket of a warp knitting machine. F. Lambach. 2,428,030; Sept. 30.
- Structures, Making laminated. F. W. Hyman. 2,425,805; Aug. 19.
- Stud, Adjustable fastener. L. Parkin. 2,425,636; Aug. 12.
- Stud chain machine. C. A. Robertson. 2,427,535; Sept. 16.
- Stuffing box. C. J. Oakes. 2,429,562; Oct. 21.
- Stuffing box. E. C. Read. 2,424,190; July 15.
- Stuffing box. R. J. Violette and I. H. Page. 2,429,654; Oct. 28.
- Styrene, Plasticization of polymerized. A. J. Warner and A. A. New. 2,414,497; Jan. 21.
- Styrene, Production of. M. H. and E. Gorin. 2,416,990; Mar. 4.
- Styrene, Purifying. C. W. Jordan. 2,423,388; July 1.
- Styrenes and other products, Production of. M. G. Sturrock and T. Lawe. 2,420,688; May 20.
- Subatmospheric gas burner. A. R. Dunham and H. V. Williamson. 2,424,154; July 15.
- Subdrain. G. E. Shafer. 2,433,300; Dec. 23.
- Subdraining machine. K. Meisenburg. 2,416,401; Feb. 25.
- Submarine locating system. O. R. Miller. 2,433,385; Dec. 30.
- Submarine signaling apparatus. H. Benioff. 2,415,407; Feb. 11.
- Submarines, Apparatus for method of locating. G. J. Klein. 2,432,625; Dec. 16.
- Submerged resistor electric induction furnace. M. Tama. 2,427,817; Sept. 23.
- Substances in a vacuum, Vaporization of. R. Rühle. 2,423,729; July 8.
- Substituted 4-hydroxylalkylamino-1,8-naphthalic acid imides. M. Scalera and A. W. Joyce. 2,415,373; Feb. 4.
- Sucrose, Processing impure solutions of. A. M. Thomsen. 2,432,595; Dec. 16.
- Suction attachment. B. Gross. 2,421,877; June 10.
- Suction attachment for dental lathes. E. E. Thwaites. 2,419,744; Apr. 29.
- Suction-blower device. J. P. Jason. 2,422,968; June 24.
- Suction cleaner. F. K. Comiskey. 2,414,853; Jan. 28.
- Suction cleaner. F. L. Pierce. 2,424,253; July 22.
- Suction cleaner. D. G. Smellie. 2,418,371; Apr. 1.
- Suction cleaner. H. B. White. 2,416,786; Mar. 4.
- Suction cleaning apparatus. J. Pickford. 2,416,419; Feb. 25.
- Suction cleaning apparatus. C. H. Taylor. 2,416,420; Feb. 25.
- Suction device. G. J. Scofield. 2,428,921; Oct. 14.
- Suction drum press. L. Hornbostel. 2,429,689; Oct. 28.
- Suction head, Self-cleaning. A. D. Brown. 2,414,797; Jan. 28.
- Suction method of gathering molten glass. G. R. Bowe, Jr. 2,425,592; Aug. 12.
- Suction pump. M. V. Bernal. 2,430,552; Nov. 11.
- Suds-lock decreasing means for spinner type clothes washing machines. C. A. Lindemann. 2,425,378; Aug. 12.
- Sugar cane wax, Production of. W. F. Geopfert. 2,430,012; Nov. 4.
- Sugar, chemicals, etc., Method and apparatus for centrifugally washing. F. W. Kopplin. 2,418,776; Apr. 8.
- Sugar decolorization. G. P. Vincent. 2,430,262; Nov. 4.
- Sugar dispenser. S. J. Beebe. 2,425,718; Aug. 19.
- Sugar, Lecithinated. F. E. Bigelow. 2,430,553; Nov. 11.
- Sugar, Method and apparatus for affining. G. E. Stevens. 2,426,126; Aug. 19.
- Sugar recovery process. A. M. Erickson and J. D. Ryan. 2,416,682; Mar. 4.
- Sugar solutions, Defecation of. J. J. Naugle. 2,422,699; June 24.
- Sugar solutions, Fermentation of impure. A. L. Schade. 2,413,699; Jan. 7.
- Sugar solutions for fermentation, etc., Preparation of clarified. R. M. Boehm, H. E. Hall, and J. A. MacDonald. 2,421,985; June 10.
- Sugar solutions, Preparation of clarified. R. M. Boehm and H. E. Hall. 2,431,163; Nov. 18.
- Sugar treating. H. S. Isbell. 2,421,380; June 3.
- Sugars by mixed yeasts, Fermenting. D. A. Legg. 2,419,960; May 6.
- Sugars, Catalytic hydrogenation of. L. A. Flexser. 2,421,416; June 3.
- Sugars from saccharified starch solutions, Recovery of unfermented and unfermentable. E. Farber and J. S. Wallerstein. 2,413,698; Jan. 7.
- Sugars, Fruit flavored raw cane. A. M. Zenzen. 2,430,903; Nov. 18.
- Suggestion cabinet. L. G. Mills. 2,421,710; June 3.
- Suit. G. D. Mallory. 2,414,051; Jan. 7.
- Suit, Bathing. R. M. Reid. 2,431,505; Nov. 25.
- Suitcase and flatiron, Combined. A. W. Janosz. 2,413,830; Jan. 7.
- Suitcase, Wheeled. J. M. Hendrick. 2,416,752; Mar. 4.
- Suit, Inflatable. C. P. Krupp. 2,433,768; Dec. 30.
- Suit, Life-preserving bathing. J. M. Combs. 2,426,726; Sept. 2.
- Sulfanilamide derivatives and preparing them, Soluble. M. W. Goldberg and S. D. Heineman. 2,430,051; Nov. 4.
- Sulfanilylsulfanilamide. M. L. Moore. 2,422,170; June 10.
- Sulfatopropionamid and preparation of acrylic acid. H. S. Davis, M. Lichtenwalter, and J. G. Erickson. 2,425,694; Aug. 12.
- Sulfenamides. G. E. P. Smith, Jr. 2,415,029; Jan. 28.
- Sulfenamides, Manufacture of. R. G. D. Moore and J. K. Sanford. 2,417,989; Mar. 25.
- Sulfenamides, Manufacture of. P. T. Paul and B. A. Hunter. 2,419,283; Apr. 22.
- Sulfide catalysts, Reactivation of. H. G. Boucher and T. F. Leeds. 2,426,483; Aug. 26.
- Sulfide containing a catalyst, Preparation of a tungsten. L. C. Fetterly. 2,430,632; Nov. 11.
- Sulfides, Separation of copper and nickel. W. K. Sproule and G. A. Harcourt. 2,419,973; May 6.
- Sulfoalkyl ethers of cellulose, Preparing. J. B. Dickey and J. G. McNally. 2,422,000; June 10.
- Sulfofluorides of azoic dyestuffs. R. P. Parker and C. M. Hofmann. 2,427,995; Sept. 23.
- Sulfonamide compounds, Preparation of. P. Oxley and W. F. Short. 2,414,892; Jan. 28.
- Sulfonamide derivatives, Purification of. E. Kuh, L. H. Dhein, and R. H. Ebel. 2,417,939; Mar. 25.
- Sulfonamides, Preparing. R. Winterbottom. 2,414,403; Jan. 14.
- Sulfonamide pyrimidines. P. S. Winnek and R. O. Roblin, Jr. 2,430,439; Nov. 4.
- Sulfonate, Petrolatum. R. W. Mertes. 2,416,192; Feb. 18.
- Sulfonated amino-phthalalkylolimides. H. T. Lacey and R. E. Brouillard. 2,430,231; Nov. 4.
- Sulfonated reagents in magnetic recovery of iron ores, Agglomeration by. E. C. Herkenhoff. 2,423,314; July 1.
- Sulfonic acids, Production of. W. A. Proell. 2,433,396; Dec. 30.
- Sulfonium compounds. E. C. Britton and J. N. Hansen. 2,417,037; Mar. 11.
- Sulfonyl chlorides from olefins, Production of. J. Ross. 2,420,383; May 13.
- Sulfonyl chlorides, Preparation of organic. F. Asinger. 2,428,733; Oct. 7.
- Sulfonyl dicyandiamides and methods for their preparation. D. W. Kaiser and J. T. Thurston. 2,426,882; Sept. 2.
- Sulfonyl dinaphthylmethanes. E. R. Blout and R. S. Corley. 2,431,909; Dec. 2.
- Sulfosuccinate esters of p-secondary-butylcyclohexanol. J. J. Carnes. 2,414,016; Jan. 7.
- Sulfosuccinate esters of p-tertiarybutylcyclohexanol. J. J. Carnes. 2,414,015; Jan. 7.
- Sulfosuccinate esters of 3,5-alkylcyclohexanols. K. L. Lynch. 2,415,255; Feb. 4.
- Sulfur: See—  
Sulphur.
- Sulfur and di(monochlorophenyl) trichlorethane as an insecticide, Fused mixture of. R. E. Wean and F. S. Charlton. 2,414,216; Jan. 14.
- Sulfur and sulfur compounds in crude petroleum, Stabilizing. C. O. Hoover. 2,430,981; Nov. 18.
- Sulfur compounds from hydrocarbon gases, Removing volatile. C. O. Hoover. 2,430,982; Nov. 18.
- Sulfur compounds from hydrocarbon oils, Removal of. G. W. Ayers, D. M. Barton, and E. E. Harton. 2,417,041; Mar. 11.
- Sulfur compounds, Manufacture of. W. A. Schulze and W. W. Crouch. 2,426,647-8; Sept. 2.
- Sulfur-containing phthalocyanines, Making. N. H. Hadcock and C. Wood. 2,416,387; Feb. 25.
- Sulfur containing polyamides. T. Le S. Cairns. 2,430,859; Nov. 18.
- Sulfur-containing polymers and their preparation. W. J. Burke. 2,416,434; Feb. 25.
- Sulfur-containing polymers, Preparation of. W. J. Burke. 2,419,943; May 6.
- Sulfur dioxide to sulfur trioxide, Oxidizing. E. F. Rosenblatt and L. Pollen. 2,418,851; Apr. 15.
- Sulfur-modified unsaturated cellulose ether and process of producing the same. M. L. Ernsberger. 2,414,144; Jan. 14.
- Sulfur vulcanization of unsaturated reaction products of diisocyanate with linear polyesters and linear polyester-amides and products resulting therefrom. J. G. Cook, D. A. Harper, R. J. W. Reynolds, and W. F. Smith. 2,424,884; July 29.
- Sulfuric acid, Atomization of strong. N. Titlestad. 2,417,386; Mar. 11.
- Sulfuric acid esters and making same. J. Bindler and H. Schläpfer. 2,433,542; Dec. 30.
- Sulfuric acid esters of hydroxyalkyl-amino-anthraquinones. W. W. Tatum. 2,415,377; Feb. 4.
- Sulfuric acid, Manufacture of high strength. I. R. McHaffie and H. R. L. Streight. 2,415,142; Feb. 4.
- Sulfuric acid, Recovery of. H. L. Ellender. 2,414,727; Jan. 21.
- Sulfuric acid-silica gel catalyst, Preparation of a. F. G. Ciapetta. 2,430,803; Nov. 11.
- Sulfuric acid sludge, Treating alkylation. C. B. Wilde. 2,418,210; Apr. 1.
- Sulfurized, milled, and cured polymer. W. J. Sparks and H. B. Kellogg. 2,417,093; Mar. 11.
- Sulfonyl chloride, Preparation of. A. Merz. 2,431,880; Dec. 2.
- Sulphate solutions in the manufacture of other sulphates, Utilization of ferrous. C. B. Francis. 2,416,744; Mar. 4.



- Sulphate solutions, Treating ferrous. F. A. Elzi. 2,427,555; Sept. 16.
- Sulphates, Normal secondary nonadecyl. E. E. Dreger and J. Ross. 2,423,692; July 8.
- Sulphates, Reduction of. K. Horn. 2,425,740; Aug. 19.
- Sulphonyl halides, Solvent extraction of organic. J. Ross and D. J. Potter. 2,424,420; July 22.
- Sulphur: See—
- Sulfur.
- Sulphur and fertilizer, Producing. A. B. Menefee and H. H. Greger. 2,416,663; Feb. 25.
- Sulphur compounds from hydrocarbons, Removing. P. J. Wilson, Jr., J. H. Wells, and P. M. Sommerfeld. 2,427,988; Sept. 23.
- Sulphur-containing phosphatide, lubricant, and making. E. Trueger. 2,431,652; Nov. 25.
- Sulphur dioxide-free hydrochloric acid from aluminum chloride sludge, Recovery of. J. W. Latchum, Jr. 2,416,011; Feb. 18.
- Sulphur from gaseous mixtures, Production of. E. P. Fleming and T. C. Pitt. 2,431,236; Nov. 18.
- Sulphur from mineral oil, Removing. E. B. McConnell. 2,414,963; Jan. 28.
- Sulphur from sulphur ores, Recovery of. A. B. Menefee and H. H. Greger. 2,429,477; Oct. 21.
- Sulphur, Producing elemental. W. O. Keeling. 2,413,714; Jan. 7.
- Sulphur production. A. Belchetz. 2,419,309-10; Apr. 22.
- Sulphur. Treatment of insoluble. E. C. Missbach. 2,419,324; Apr. 22.
- Sulphur, Vaporizing. J. W. Neelley. 2,424,495; July 22.
- Sulphuration. J. W. Church. 2,425,597; Aug. 12.
- Sunglasses. L. W. Haas. 2,426,266; Aug. 26.
- Supercharger. H. F. Hagen and J. L. Bartlett, Jr. 2,427,136; Sept. 9.
- Supercharger control. G. M. Holley, Jr. 2,417,363; Mar. 11.
- Supercharger drive for airplane cabins. F. W. Godsey, Jr. 2,429,716; Oct. 28.
- Supercharger for internal combustion engines, Exhaust-driven. P. H. Stokes, L. S. Greenland, and C. A. Pugh. 2,423,417; July 1.
- Supercharger with controllable inlet. A. Hasbrouck. 2,431,398; Nov. 25.
- Superheterodyne converter. A. H. Turner. 2,415,977; Feb. 18.
- Superheterodyne radio receiver having compensating means for frequency drift of the received carrier wave. C. W. Earp. 2,433,350; Dec. 30.
- Superheterodyne receiver, Wide-band. W. P. Boothroyd. 2,419,984; May 6.
- Superphosphate fertilizers, Manufacture of. J. Stauffer, Jr. 2,418,203; Apr. 1.
- Superphosphate, Making granular. M. Shoeld. 2,414,700-1; Jan. 21.
- Superregenerative receiver. H. A. Wheeler. 2,414,992; Jan. 28.
- Supersonic inspection. B. Carlin. 2,431,862; Dec. 2.
- Supervisory system for temperature indicating systems. L. R. Hill. 2,428,568; Oct. 7.
- Supply construction for bed structures, Bath and lavatory. R. R. Freund. 2,432,147; Dec. 9.
- Supply for electron microscopes, Power. A. W. Vance. 2,419,428; Apr. 22.
- Supply system for amplifiers of the electron multiplier type, Voltage. L. L. Weisgall. 2,430,265; Nov. 4.
- Supply system for concrete mixers, Water. L. G. Hilke-meier. 2,427,499; Sept. 16.
- Supply system for velocity modulated vacuum tubes, Power. W. P. Boothroyd. 2,427,382; Sept. 16.
- Support: See—
- Abdominal support.
- Adhesive temporary support.
- Adjustable bed cover support.
- Adjustable comb support.
- Adjustable mast leg support.
- Adjustable outlet box support.
- Adjustable pipe support.
- Adjustable seat support.
- Adjustable support.
- Aircraft landing wheel support.
- Antenna support.
- Arch support.
- Bearing support.
- Brake beam safety support.
- Brake beam support.
- Cabinet shelf support.
- Camera and light support.
- Camera support.
- Cathode ray tube support.
- Christmas tree support.
- Chronometer box securing support.
- Coil support.
- Compensating roller support.
- Conductor support.
- Drill support.
- Drive motor support.
- Fan hanger and like fixture support.
- Firetray assembly support.
- Flexible arch support.
- Garment support.
- Gun support.
- Heel support.
- Idler roller support.
- Key holder support.
- Lantern support.
- Mailbox support.
- Manipulatable servicing support.
- Mannikin support.
- Monorail track support.
- Optical support.
- Package-binding tool support.
- Pole-type connector support.
- Resilient churn support.
- Resilient seat support.
- Scaffold support.
- Sewing machine support.
- Surgical support.
- Third rail support.
- Track support.
- Universal drill support.
- Venetian blind tilt-bar support.
- Work support.
- Yarn holder support.
- Support. H. O. Petersen. 2,427,416; Sept. 16.
- Support. J. K. Wood. 2,420,276; May 6.
- Support and arresting member, Aircraft tail. F. C. Albright. 2,421,739; June 10.
- Support and brace therefor. O. B. Fetterman. 2,426,443; Aug. 26.
- Support and heel retainer, Cuboid. W. M. Scholl. 2,425,837; Aug. 19.
- Support and sound projecting apparatus. W. C. Eaves. 2,428,270; Sept. 30.
- Support construction for hydraulic brake wheel cylinders. R. A. Goepfrich. 2,431,551; Nov. 25.
- Support device. J. A. Morrison. 2,430,027; Nov. 4.
- Support for a four-wheel drive, Rear axle. T. C. Jones. 2,428,281; Sept. 30.
- Support for Christmas trees, Electric lamp. H. Glaser. 2,414,866; Jan. 28.
- Support for classifying systems. W. Culver. 2,429,016; Oct. 14.
- Support for conduits, Sectional. E. M. Morehouse. 2,417,260; Mar. 11.
- Support for cribs, Bottom. C. E. Webb. 2,414,076; Jan. 7.
- Support for curtains and the like, Universal. R. Murn. 2,415,751; Feb. 11.
- Support for drill pipe protectors. J. C. Ballagh. 2,429,341; Oct. 21.
- Support for electric resistors, Refractory. H. E. Trent. 2,424,780; July 29.
- Support for expandable members. F. O. Hennig. 2,420,135; May 6.
- Support for fishing poles. O. H. Thomas, W. H. O'Neal, and F. P. Sword. 2,419,378; Apr. 22.
- Support for fluorescent fixtures. H. U. Schockett. 2,422,858; June 24.
- Support for gimbal carried instruments, Cantilever. E. W. Drescher. 2,425,602; Aug. 12.
- Support for induction coils, Adjustable. H. A. Strickland, Jr. 2,427,332; Sept. 9.
- Support for induction heating coil. H. A. Strickland, Jr. 2,423,054; June 24.
- Support for kitchen containers. V. C. and E. J. Antonia. 2,427,335; Sept. 16.
- Support for lids, Friction. G. V. Jakeway. 2,421,889; June 10.
- Support for machines which straighten tubes or bars, Shiftable work. D. W. T. Evans. 2,416,048; Feb. 18.
- Support for office appliances. W. F. Herring. 2,415,820; Feb. 18.
- Support for outlet boxes. H. Smith. 2,432,555; Dec. 16.
- Support for railway cars, Diaphragm. W. B. and A. G. Dean. 2,415,385; Feb. 4.
- Support for reciprocating carriage type slicing machines, Detachable substance. J. Folk. 2,431,390; Nov. 25.
- Support for rifles and other shoulder firearms. H. H. Sefried, II. 2,420,267; May 6.
- Support for rocket launchers. L. A. Richards. 2,428,761; Oct. 7.
- Support for rocket projectiles, Aircraft. R. M. Elder, J. J. Domoj, E. W. Wise, and J. J. Konikoff. 2,422,660; June 24.
- Support for scaffold platform, Elevating. A. D. Powell. 2,424,115; July 15.
- Support for spherical container. H. C. Boardman. 2,417,053; Mar. 11.
- Support for sun visors. W. J. Peltier and A. J. Diroff. 2,424,500; July 22.
- Support for the base of cover-type furnaces, Charge. H. H. Armstrong. 2,414,996; Jan. 28.
- Support for U-beam screw clamps, Detachable. C. S. Strotz. 2,432,352; Dec. 9.
- Support for washboards. J. F. and B. H. Campanell. 2,431,539; Nov. 25.
- Support for welding guns, Single leg. C. S. Evans. 2,416,915; Mar. 4.
- Support for wooden clogs, Arch. N. T. Buselmeier. 2,415,459; Feb. 11.
- Support or fixture, Display. W. N. Applegate and C. A. Petersen. 2,421,232; May 27.
- Support structure, Washing machine. H. C. Bowen. 2,414,506; Jan. 21.
- Supporter and tightener, Line. W. H. Ames. 2,429,590; Oct. 28.
- Supporter, Collar and necktie. F. M. Hess. 2,414,693; Jan. 21.
- Supporter, Sock. A. Wright. 2,415,058; Jan. 28.
- Supporter with a sacroiliac protective pad, Athletic. S. J. Vitale. 2,427,428; Sept. 16.
- Supporting and moving mechanism, Work. R. E. Flanders. 2,418,223; Apr. 1.
- Supporting attachment for grinding machines, Work. H. L. Bloomingburg. 2,414,285; Jan. 14.
- Supporting bracket. T. W. Kerr. 2,432,241; Dec. 9.
- Supporting clip. E. M. Morehouse. Re. 22,846; Feb. 25.
- Supporting device. R. J. Arnold. 2,420,391; May 13.
- Supporting device for lighting fixtures. K. R. Scribner. 2,433,819; Dec. 30.
- Supporting means for pessaries, Detachable. Y. H. Kurkjian. 2,432,768; Dec. 16.
- Supporting means for the moving elements of electrical indicating instruments. H. Butler. 2,425,595; Aug. 12.



- Supporting means for vertical axis washing machine spinner baskets. G. W. Dunham. 2,421,251; May 27.
- Supports. Adjustable centering and like. W. A. de Vigier. 2,415,236; Feb. 4.
- Supports for display forms, Adjustable head. R. A. Schramm and E. S. Wisniewski. 2,426,469; Aug. 26.
- Surface covering, Cementitious. R. H. Frederickson and H. N. Stephens. 2,422,665; June 24.
- Surface finishing. R. C. Pruitt, E. F. Fowle and R. S. Iglehart. 2,425,640; Aug. 12.
- Surfaces on ferrous metal parts, Providing rust free. M. Frager. 2,428,364; Oct. 7.
- Surfacing machine. D. E. Mulholland and K. S. Lawrence. 2,418,085; Mar. 25.
- Surfacing small parts. G. P. Luckey and T. R. Schwalm. 2,424,835; July 29.
- Surge valve mechanism. J. C. Shaw. 2,417,708; Mar. 18.
- Surgical apparatus. B. Page. 2,414,240; Jan. 14.
- Surgical apparatus. B. Page and H. Lensky. 2,414,239; Jan. 14.
- Surgical bone clamp. J. J. Ettinger. 2,427,128; Sept. 9.
- Surgical dressing. W. J. Gardner. 2,421,193; May 27.
- Surgical dressing, Internal. C. W. Bice and M. M. MacMasters. 2,423,475; July 8.
- Surgical instrument. R. A. Mull. 2,420,004; May 6.
- Surgical support. M. L. Holycross. 2,429,058; Oct. 14.
- Surveying apparatus, Well. R. E. Fearon. 2,414,862; Jan. 28.
- Surveying instrument, Well. G. L. Kothny. 2,415,249; Feb. 4.
- Surveying instrument, Well. C. W. Savitz. 2,415,221; Feb. 4.
- Suspended matter in fluids, Method and apparatus for detecting. L. E. Pamphilon. 2,419,914; Apr. 29.
- Suspenders. M. S. Berry. 2,415,725; Feb. 11.
- Suspending means for hoppers. A. M. Buehler. 2,415,934; Feb. 18.
- Suspension, Automobile. D. W. Sherman. 2,417,019; Mar. 4.
- Suspension for saddles, Adjustable stirrup. C. G. Wells. 2,418,103; Mar. 25.
- Suspension, Hose. J. Jolley. 2,418,513; Apr. 8.
- Suspension, Jointless tracklayer. G. W. Curtis. 2,416,679; Mar. 4.
- Suspension means. J. I. Robin. 2,420,196; May 6.
- Suspension mechanism for vehicles. W. R. Hendrix. 2,416,388; Feb. 25.
- Suspension system for road vehicles and the like. L. M. Ballamy and R. H. Sheepshanks. 2,418,744; Apr. 8.
- Suspension, Tandem trailer. G. Keller, Jr. 2,417,690; Mar. 18.
- Suspension, Vehicle wheel. G. L. Larison. 2,417,206; Mar. 11.
- Suture. E. St. Pierre. 2,424,516; July 22.
- Suture package. E. Themak. 2,417,574; Mar. 18.
- Suture protecting and tensioning means for surgical stitching instruments. J. D. Karle. 2,414,746; Jan. 21.
- Suturing instrument. H. H. Ogburn. Re. 22,857; Mar. 25.
- Swab or cleaner, Gun. J. A. Jowett. 2,420,044; May 6.
- Swab, Pipeline. J. F. Stephens. 2,427,632; Sept. 16.
- Sweatband for hats. J. C. Kerr. 2,432,164; Dec. 9.
- Sweep circuit. H. M. Zenor. 2,426,256; Aug. 26.
- Sweeper. L. B. Salt and C. R. Zaino. 2,415,372; Feb. 4.
- Sweeper, Magnetic floor. R. L. Sjostrom. 2,426,795; Sept. 2.
- Sweetening of hydrocarbon liquids. D. C. Bond. 2,427,250; Sept. 9.
- Sweetening process. D. E. Payne and V. Voorhees. 2,431,770; Dec. 2.
- Swimming cap. H. B. Richards and M. T. Crawford. 2,417,323; Mar. 11.
- Swimming tail. C. H. When. 2,423,571; July 8.
- Swing. W. I. Smith. 2,423,950; July 15.
- Swing for children and the like. P. M. Ressinger. 2,431,138; Nov. 18.
- Swing joint. F. G. D. Muller. 2,420,053; May 6.
- Swinging bracket. R. R. Rundell. 2,424,369; July 22.
- Swinging machine. G. R. Estes and R. Grohskopf. 2,428,840; Oct. 14.
- Switch: See—Continued.
- Adjustable thermostat switch.
- Alternating current power switch.
- Automatic electric time switch.
- Automatic oil pressure safety switch.
- Automatic selecting switch.
- Bed switch.
- Cable reel switch.
- Centrifugal operated switch.
- Centrifugal switch.
- Coaxial switch.
- Combined fuse and electric switch.
- Contact switch.
- Control switch.
- Current responsive switch.
- Differential pressure switch.
- Diverting switch.
- Electric snap-action switch.
- Electric snap switch.
- Electric switch.
- Electrical switch.
- Electrically heated, thermoresponsive switch.
- Electromagnetic control switch.
- Electromagnetic switch.
- Electronic switch.
- Fire finding switch.
- Flow actuated switch.
- Gravity flashlight switch.
- Heating apparatus switch.
- Impact switch.
- Indicating switch.
- Lamp failure switch.
- Limit switch.
- Liquid-quenched switch.
- Magnetic motor starting switch.
- Magnetic switch.
- Mercury switch.
- Multiple contact electric switch.
- Multiple contact switch.
- Multiple heater thermal switch.
- Multiple purpose electric switch.
- Multiple switch.
- Nonnumerical rotary homing type switch.
- Over-current and under-current protective switch.
- Pattern sheet control switch.
- Porous pellet delay switch.
- Pressure actuated switch.
- Pressure controlled switch.
- Pressure operated switch.
- Pressure responsive switch.
- Pressure switch.
- Push-button switch.
- Push-pull switch.
- Reversal responsive switch.
- Rotary selector switch.
- Rotary type snap action electric switch.
- Rotating electric liquid switch.
- Switch. C. E. Bazley. 2,418,329; Apr. 1.
- Switch. D. G. Clifford. 2,427,089; Sept. 9.
- Switch. R. T. Cornelius. 2,418,068; Mar. 25.
- Switch. R. G. Ferris. 2,424,390; July 22.
- Switch. W. C. Furnas. 2,416,253; Feb. 18.
- Switch. J. H. Horman. 2,415,134; Feb. 4.
- Switch. J. H. Horman. 2,417,200; Mar. 11.
- Switch. M. L. Jeffrey. 2,416,626; Feb. 25.
- Switch. E. G. Miller and R. E. Engberg. 2,418,556; Apr. 8.
- Switch. J. A. Rugh. 2,429,074; Oct. 14.
- Switch. F. C. Wallace. 2,418,564; Apr. 8.
- Switch. W. W. Watrous, Jr. 2,414,622; Jan. 21.
- Switch. H. E. White. 2,418,384; Apr. 1.
- Switch actuating mechanism. E. A. Ericson. 2,425,278; Aug. 5.
- Switchboard construction having adjustable grommet wire holders. A. J. A. Peterson and J. D. Gard. 2,427,742; Sept. 23.
- Switch box mounting. E. G. Johansson and A. A. Young. 2,422,553; June 17.
- Switch casing, Dustproof and moistureproof. J. W. Lawson. 2,430,064; Nov. 4.
- Switch clip. F. S. Green. 2,433,115; Dec. 23.
- Switch construction. E. A. Link. 2,418,359; Apr. 1.
- Switch construction. G. R. Runke. 2,416,407-8; Feb. 25.
- Switch construction. A. G. Steinmayer. 2,431,147; Nov. 18.
- Switch construction, Push-button. C. Miller. 2,427,015; Sept. 9.
- Switch control, Fluid operated. K. Lerstrup. 2,430,128; Nov. 4.
- Switch controlling mechanism, Electric. C. R. Kronoff. 2,433,225; Dec. 23.
- Switch device. J. Youhouse. 2,415,858; Feb. 18.
- Switch for a duplex system, Voice operated. O. Tschumi. 2,424,069; July 15.
- Switch for air conditioning apparatus. J. T. Carlson. 2,417,911; Mar. 25.
- Switch for automatic telephone systems, Rotary type selector. D. P. Long. 2,416,109; Feb. 18.
- Switch for clothes washing machines, and the like, Electric. T. T. Woodson. 2,432,273; Dec. 9.
- Switch for direction signals of motor vehicles, Control. S. L. Fuller. 2,427,595; Sept. 16.
- Switch for dispatch systems, Gang. A. L. Riche. 2,424,668; July 29.
- Switch for heating apparatus. E. K. Clark. 2,427,944; Sept. 23.
- Switch for hot-water supply, Thermostatic. R. F. Henningfield. 2,420,777; May 20.
- Switch for hydraulic brake systems, Pressure operated. M. Katcher. 2,430,428; Nov. 4.
- Switch for photographic copying cameras, Document operated. J. K. Holbrook. 2,419,836; Apr. 29.
- Switch for telecommunication systems, Selector. F. Van Laethem. 2,423,131; July 1.
- Switchgear. C. P. West. 2,424,345; July 22.
- Switchgear, Interchangeable electric. F. E. Fairman, Jr. 2,424,081; July 15.
- Switchgear, Metal enclosed. P. R. Pierson and G. C. Sinclair. 2,414,555; Jan. 21.
- Switch in protective systems, Manual reset thermostatic. V. G. Vaughan. 2,426,906; Sept. 2.
- Switch mechanism. V. H. Fry. 2,431,747; Dec. 2.
- Switch mechanism. R. W. Goff. 2,431,929; Dec. 2.
- Switch mechanism. H. W. Price. 2,420,997; May 20.
- Safety starter switch.
- Set-back switch.
- Signal switch.
- Slide button switch.
- Snap-action switch.
- Snap switch.
- Split phase motor thermal starting switch.
- Starter switch.
- Tap-changing switch.
- Taper snap switch.
- Temperature compensated switch.
- Thermal snap-acting switch.
- Thermal switch.
- Thermostatic switch.
- Time delay electric switch.
- Time operated switch.
- Time switch.
- Toggle iron plug switch.
- Torpedo switch.
- Transmission line switch.
- Transmit-receive switch.
- Trouble lamp switch.
- Two-motion cam controlled automatic telephone switch.
- Two-position switch.
- Ultra high frequency switch.
- Wall switch.
- Weight operated switch.



- Switch operating mechanism. E. Klug. 2,430,935; Nov. 18.
- Switch operating mechanism. I. W. Paterson. 2,420,441; May 13.
- Switch reversing control, Single limit. G. W. Heumann. 2,432,313; Dec. 9.
- Switch system to prevent arcing of contacts. M. A. Scheg and O. H. Dicke. 2,425,570; Aug. 12.
- Switch system with sequentially operated magnets, Cross-bar. J. H. Voss. 2,430,316; Nov. 4.
- Switch with kinetic energy dissipating means, Electrical. S. H. Kast. 2,420,485; May 13.
- Switching and modulation system. F. A. Jenks and D. F. Folland. 2,425,328; Aug. 12.
- Switching apparatus, Electrical. M. F. Miller. 2,432,581; Dec. 16.
- Switching apparatus, Electrical selector. G. Peterson. 2,430,886; Nov. 18.
- Switching apparatus with periodically operated contacts. C. Zellweger and H. H. Durheim. 2,429,659; Oct. 28.
- Switching arrangement for electrical apparatus. L. C. Wimmer. 2,424,529; July 22.
- Switching arrangement in duplex loud speaking systems. O. Tschumi. 2,427,983; Sept. 23.
- Switching device. H. E. Somes. 2,420,449; May 13.
- Switching device. E. L. Stephenson. 2,414,342; Jan. 14.
- Switching device, Electric. C. D. Bayley. 2,432,370; Dec. 9.
- Switching device in wave guide transmission system. W. A. Tyrrell. 2,423,130; July 1.
- Switching device, Mechanical. J. Huber. 2,421,267; May 27.
- Switching device, Wave guide. G. W. Leck. 2,423,508; July 8.
- Switching means. D. C. Prince. 2,416,951; Mar. 4.
- Switching method and system. J. B. Gehman. 2,427,850; Sept. 23.
- Switching system. A. J. Busch. 2,426,595; Sept. 2.
- Switching system, Automatic. F. P. Gohorel. 2,423,098; July 1.
- Switching system for reversible synchronous motors, Slip responsive field. F. W. Seitz. 2,430,650; Nov. 11.
- Switching system, High frequency. P. D. Zottu. 2,419,307; Apr. 22.
- Swivel. R. P. Fisher. 2,429,929; Oct. 28.
- Swivel disconnecter, Electrical. M. D. Bergan. 2,430,270; Nov. 4.
- Swivel fitting. L. N. Vandervoort. 2,421,974; June 10.
- Swivel harp for lamp shades. D. Engel. 2,420,471; May 13.
- Swivel joint assembly. E. R. Atkins. 2,414,997; Jan. 28.
- Swivel pipe joint. B. L. Mills. 2,419,906; Apr. 29.
- Symbols, Translation of visual. R. K. Potter. 2,432,123; Dec. 9.
- Synchronized control gear. W. Hughes. 2,421,944; June 10.
- Synchronizer coupling. P. Orr and C. J. Conkle. 2,414,388; Jan. 14.
- Synchronizer device, Balk ring. M. S. Baker. 2,413,675; Jan. 7.
- Synchronizing and beam blanking device, Sweep. P. S. Christaldi and J. R. Banker. 2,419,118; Apr. 15.
- Synchronizing clutch. C. D. Peterson and R. Burkhalter. 2,425,203; Aug. 5.
- Synchronizing device. L. Devaux. 2,423,086; July 1.
- Synchronizing device. A. P. Dinsmore. 2,427,125; Sept. 9.
- Synchronizing equipment, Photographic. I. Jacobson and H. E. Smith. 2,418,714; Apr. 8.
- Synchronizing in color television. F. J. Somers. 2,428,946; Oct. 14.
- Synchronizing signal separating circuit. G. L. Grundmann. 2,431,037; Nov. 18.
- Synchronizing-signal separator. J. C. Wilson. 2,416,424; Feb. 25.
- Synchronizing system. L. A. De Rosa. 2,418,112; Apr. 1.
- Synchronizing system. M. Gabriel and G. Guanella. 2,419,637; Apr. 29.
- Synchronizing system. D. Mitchell. 2,418,134; Apr. 1.
- Synchronizing system. R. C. Moore. 2,431,577; Nov. 25.
- Synchronizing system for a plurality of rotating machines, Polyphase speed. F. E. Crever. 2,419,058; Apr. 15.
- Synchronizing system, High speed facsimile. W. G. H. Finch. 2,416,573; Feb. 25.
- Synchronizing system, Multiplex. D. D. Grieg. 2,418,116; Apr. 1.
- Synchronous drive for loads. A. V. Bedford and C. A. Meneley. 2,433,194; Dec. 23.
- Synchronous dynamoelectric machine, Self-excited. F. E. Crever. 2,414,287; Jan. 14.
- Synchronous electric alarm-clock mechanism. A. W. Kelly. 2,417,254; Mar. 11.
- Synchronous machines, Starting. R. Keller and E. Hand-schin. 2,431,486; Nov. 25.
- Synchronous motor. A. H. Sanborn. 2,432,070; Dec. 2.
- Synchronous timer. G. G. Smith. 2,432,346; Dec. 9.
- Synthesis of methionine. H. S. Lecky. 2,432,478; Dec. 9.
- Synthesis of organic oxygen-containing compounds. W. F. Gresham. 2,432,474; Dec. 9.
- Syringe. C. J. Crowley. 2,429,869; Oct. 28.
- Syringe extension. E. L. Shuford. 2,420,102; May 6.
- Syrup, Spray drying starch conversion. H. H. Schopmeyer. 2,433,818; Dec. 30.
- System and apparatus for facsimile telegraphy. R. J. Wise. Re. 22,827; Jan. 7.
- System and apparatus for facsimile telegraphy. R. J. Wise. 2,425,019; Aug. 5.
- System and apparatus for operating submerged internal-combustion engines. D. G. Roos. 2,429,732; Oct. 28.
- System for cattle stalls, Electrical. J. J. Hantz. 2,428,875; Oct. 14.
- System for checking contours. C. F. Coake. 2,417,062; Mar. 11.
- System for controlling flow of liquids. W. R. Keboe. 2,416,875; Mar. 4.
- System for detecting magnetic masses. F. Rieber. 2,424,772; July 29.
- System for detecting sources of radiant energy. M. J. E. Golay and H. A. Zahl. 2,424,976; Aug. 5.
- System for doctor blade control in paper making machines, Electrical. E. L. Happ. 2,417,796; Mar. 18.
- System for electric blankets, Protective. J. W. Downie. 2,424,438; July 22.
- System for electric welding apparatus, Controller. L. C. Hall. 2,425,183; Aug. 5.
- System for electrically treating soil. C. R. Keller. 2,429,412; Oct. 21.
- System for energizing the electrodes of cathode-ray devices from the deflecting circuit. W. J. Poch. 2,421,520; June 3.
- System for filling containers. E. W. Bleam and J. Y. Albertson. 2,432,373; Dec. 9.
- System for heating liquids. V. F. Parry. 2,424,844; July 29.
- System for internal combustion engines, Cooling. E. F. Chandler. 2,417,237; Mar. 11.
- System for locating a radiated-signal reflector. H. M. Lewis. 2,426,460; Aug. 26.
- System for locating obstacles. H. Benioff. 2,433,332; Dec. 30.
- System for locating the source of an explosion wave. P. G. Edwards and D. D. Robertson. 2,424,561; July 29.
- System for measuring frequency deviations. R. Koehlin. 2,423,103; July 1.
- System for obtaining a sharp-sided output pulse shorter than the input pulse, Triggering. W. A. Miller and E. R. Shenk. 2,430,725; Nov. 11.
- System for parallel operation of separators. W. G. Neild. 2,433,621; Dec. 30.
- System for polyphas induction motors, Braking. E. Pell. 2,430,992; Nov. 18.
- System for portable rubbing machines, Lubricating. S. A. Crosby. 2,417,469; Mar. 18.
- System for producing a single nonrepetitive scanning trace. H. De Ryder. 2,415,870; Feb. 18.
- System for reducing direct-current fault currents. G. E. Frost. 2,424,231; July 22.
- System for regulating the density of air-fuel mixture supplied by air-swept pulverizing mills. J. Crites. 2,427,903; Sept. 23.
- System for space scanning with a radiated wave-signal beam. H. M. Lewis. 2,429,726; Oct. 28.
- System for supervising the taking of moving pictures. A. H. Rosenthal. 2,420,197; May 6.
- System for the molding of any material. L. J. Dubois. 2,415,873; Feb. 18.
- System for toothed gearing. A. Mackmann and B. S. Nelson. 2,432,246; Dec. 9.
- System for transmitting two simultaneous intelligencies. F. H. Shepard, Jr. 2,419,292; Apr. 22.
- System for use in photorecording, Electrical. N. A. Hassler. 2,415,879; Feb. 18.
- System for use with recording meters, Electrical. N. A. Hassler. 2,415,880; Feb. 18.
- System for using the scanning beam of light for instruments. G. V. Rylsky. 2,417,704; Mar. 18.
- System of communication. R. B. Dome. 2,424,079; July 15.
- System of flat electrodes. E. C. Thomson. 2,426,252; Aug. 26.
- System of generator regulation. W. J. Rady and L. A. Rice. 2,427,809; Sept. 23.
- System of modulation transmission by means of impulses. R. G. Tahon. 2,433,407; Dec. 30.
- Tab for guide cards. C. W. Straubel and J. S. Holbrook. 2,420,021; May 6.
- Table: See—
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|---------------------------|--------------------------------|
| Adjustable folding table. | Measuring table.               |
| Card table.               | Metal table.                   |
| Coffee or cocktail table. | Operating and examining table. |
| Discharge table.          | Screen printing table.         |
| Drop-leaf table.          | Take-off table.                |
| Extension table.          | Wall table.                    |
| Folding table.            |                                |
| Industrial table.         |                                |
- Table and screen of the drag-conveyer type, Combined picking. M. H. Fies. 2,420,941; May 20.
- Table and seat, Combined folding. P. L. Peckham. 2,421,127; May 27.
- Table and separable service cabinet, Combination. R. L. Domash. 2,419,766; Apr. 29.
- Table and set unit, Folding. A. Bohmer. 2,427,121; Sept. 9.



- Table construction. W. H. McDonald. 2,423,247; July 1.  
Table having folding supports, Ironing. H. V. Keller. 2,425,810; Aug. 19.  
Table having folding supports, Ironing. C. Tonn. 2,423,628; July 8.  
Table lamp. M. Mayes. 2,415,514; Feb. 11.  
Table slide assembly, Extension. R. R. Lowe. 2,417,257; Mar. 11.  
Table stop, Hydraulic. J. Daugherty. 2,430,760; Nov. 11.  
Table top, Auxiliary. A. G. Merkle. 2,430,682; Nov. 11.  
Tabulator. B. Haskins. 2,421,060; May 27.  
Tachometer. J. Berge. 2,428,828; Oct. 14.  
Tachometer calibrator. D. J. Ward. 2,425,289; Aug. 5.  
Tachometer drive, Remote. P. F. Bechberger. 2,422,067; June 10.  
Taeniadial mixture. J. E. Guthrie. 2,422,411; June 17.  
Tag. R. C. Schmutzler. 2,423,818; July 8.  
Tag, Identification. F. W. Zinn. 2,433,185; Dec. 23.  
Tagging device, Animal. J. A. Barger. 2,430,853; Nov. 18.  
Tags, labels or the like and making the same, Shipping. M. R. McClatchey, Jr. 2,424,621; July 29.  
Tail gate assembly. C. C. Stuart. 2,424,862; July 29.  
Tailstock offset gauge. R. C. Olds. 2,427,227; Sept. 9.  
Tailless airplane arresting hook. J. G. Lee. 2,419,456; Apr. 22.  
Takedown type swinging wall bracket. R. E. McLean. 2,427,613; Sept. 16.  
Take-off or transfer apparatus, Article. W. L. McNamara and P. Z. Fousee. 2,421,515; June 3.  
Take-off table. A. Shields. 2,414,337; Jan. 14.  
Take-up means for sewing machines. C. C. Smith. 2,430,084; Nov. 4.  
Take-up mechanism. R. K. Hohmann. 2,420,538; May 13.  
Talisman container. M. Schick. 2,420,265; May 6.  
Tall oil drying oils, Producing. F. C. Martin. 2,421,842; June 10.  
Tall oil, Fractionation of. S. E. Freeman and S. W. Gloyer. 2,423,232; July 1.  
Tall oil, Treating. J. Harwood and E. F. Binkerd. 2,423,236; July 1.  
Tampons, Method of and machine for making. W. H. Rabell. 2,425,004; Aug. 5.  
Tandem carrier. J. C. Neeley. 2,416,492; Feb. 25.  
Tandem wheel mounting. S. M. Powarzynski. 2,430,248; Nov. 4.  
Tank: *See*—  
Air tank. Metal-lined portable wooden tank.  
Anticorrosion tank. Self-sealing fuel tank.  
Auxiliary fuel tank. Settling tank.  
Bottom-fill truck tank. Spherical tank.  
Collapsible gasoline tank. Stock watering tank.  
Detachable wing tip tank. Storage tank.  
Fuel tank. Vapor conserving tank.  
Jettison tank.  
Laminated fuel tank.  
Tank. G. M. Barnes. 2,413,685; Jan. 7.  
Tank and demolition bomb, Combined drop. L. M. Bach. 2,417,342; Mar. 11.  
Tank and gauge selector, Fuel. E. B. Heyl. 2,417,362; Mar. 11.  
Tank cap. B. B. Odell. 2,421,350; May 27.  
Tank especially for vehicles. J. C. Whitesell. 2,417,337; Mar. 11.  
Tank for salvaging aeroplanes, Military. G. Provenzano. 2,417,612; Mar. 18.  
Tank for vending machines, Constant level. J. E. Hagstrom. 2,418,300; Apr. 1.  
Tank having a U-shaped conduit having arm portions inclined downward to the lower part of said tank and a conduit opening into said tank connecting said portions. Sludge. H. W. Chapman. 2,432,756; Dec. 16.  
Tank having an inclined apron discharging into the tank, an affluent channel, and an inverted V-shaped baffle extending across the tank between the apron and the channel. Combined sewage settling and digestive. C. H. Coberly. 2,416,867; Mar. 4.  
Tank provided with a vertical partition dividing it into compartments, a flow distributor and weir for each compartment, and a conveyor for each compartment for removing settled solids, Sludge settling and dewatering. C. B. Smith and H. L. Bullock. 2,414,176; Jan. 14.  
Tank structure for liquid treatment. L. W. Bieker and E. W. Welp. 2,419,004; Apr. 15.  
Tank with a solids impeller means having a normally submerged drive wheel, Liquid treatment. A. C. Durdin, III. 2,427,091; Sept. 9.  
Tanks, Constructing tile lined. J. M. Crom. 2,418,580; Apr. 8.  
Tanning material from waste sulfite liquor, Producing. O. A. Muller. 2,418,981; Apr. 15.  
Tap and drill gauge. S. L. Monson. 2,415,516; Feb. 11.  
Tap and die holder, Releasing. H. H. Ranney. 2,432,443; Dec. 9.  
Tap and holder therefor. H. Norberg and H. Smith. 2,424,113; July 15.  
Tap-changing switch. S. L. Christie. 2,422,339; June 17.  
Tap, Illuminated beer. C. V. Carbone. 2,414,446; Jan. 21.  
Tape, Adhesive wrapping. O. H. Leidy. 2,420,604; May 13.  
Tape dispenser. H. E. Butler. 2,423,004; June 24.  
Tape dispenser. W. H. Ziegler. 2,414,915; Jan. 28.  
Tape, Elastic. J. V. Moore. 2,418,187; Apr. 1.  
Tape facsimile system, High-speed. F. R. Brick. 2,418,618; Apr. 8.  
Tape for separable fasteners. N. A. Wahl. 2,432,841; Dec. 16.  
Tape, Ladder. L. J. Rasero. Re. 22,925; Oct. 7.  
Tape, Ladder. L. J. Rasero. 2,420,978; May 20.  
Tape loop former, Slidably mounted. G. G. Keyes. 2,427,036; Sept. 9.  
Tape, Measuring. E. J. Witchger. Re. 22,908; Aug. 12.  
Tape, Method and apparatus for making zipper. B. Crompton. 2,423,298; July 1.  
Tape, Pressure sensitive adhesive. W. Eustis and G. R. Orrill. 2,429,223; Oct. 21.  
Tape, Production of narrow curvilinear nonelastic. J. V. Moore. 2,424,411; July 22.  
Taper snap switch. J. H. Schellman. 2,420,913; May 20.  
Tapered roller thrust bearing. J. W. Rundt. 2,417,398; Mar. 11.  
Tapes, Pressure-sensitive adhesive. M. H. Kemp. 2,416,926; Mar. 4.  
Tapes, Pressure-sensitive adhesive. V. N. Morris. 2,424,996; Aug. 5.  
Tappet. W. D. Corlett. 2,426,083; Aug. 19.  
Tar acids from tar, Process of separating. F. E. Cislak and T. P. Carney. 2,417,291; Mar. 11.  
Tar separated from tar-water emulsion, Residual. E. L. Hall and H. R. Batchelder. 2,423,424; July 1.  
Target. R. J. Lohr. 2,427,010; Sept. 9.  
Target. F. W. Schaffner. 2,417,451; Mar. 18.  
Target, Amusement. J. G. Tindale. 2,432,596; Dec. 16.  
Target and circuit, Electric. E. H. Clark. 2,427,901; Sept. 23.  
Target azimuth device. W. H. Boghosian and H. G. Och. 2,432,504; Dec. 16.  
Target butt, Archery. C. A. Saunders. 2,423,347; July 1.  
Target manufacture. G. E. Hutchinson and A. A. Johnson. 2,418,936; Apr. 15.  
Target member, Pivoted. B. Whitehouse. 2,427,434; Sept. 16.  
Target seeking device with phototube multiplier. H. W. G. Salinger. 2,425,956; Aug. 19.  
Target throwing apparatus. P. B. Rutherford and D. R. Luster. 2,432,446; Dec. 9.  
Target throwing machine. P. J. Herold. 2,432,155; Dec. 9.  
Target towing device. O. J. Bratz. 2,432,278; Dec. 9.  
Target trap. R. R. Razee. 2,430,077; Nov. 4.  
Tartaric acid, Purification of. W. E. Barch. 2,430,855; Nov. 18.  
Tartaric acid values, Preparation of. M. T. Sanders. 2,419,038; Apr. 15.  
Taste and odor in glycollic acid, Inhibiting. H. C. Hetherington. 2,419,137; Apr. 15.  
Tearing machine, Sheet. E. H. Swain. 2,427,515; Sept. 16.  
Tee, Fabricating a. R. Ryan. 2,425,645; Aug. 12.  
Tee for projectiles, Driving. H. W. Osgood. 2,432,209; Dec. 9.  
Teeter totter. P. Buczkowski. 2,433,735; Dec. 30.  
Teeth, Artificial. R. O. Dickson. 2,416,983; Mar. 4.  
Teeth, Fitting. L. H. Blanchard. 2,419,248; Apr. 22.  
Teeth for roll scrapers and trash bar plates. L. Menzl. 2,417,210; Mar. 11.  
Teething aid. M. F. Newmark. 2,421,574; June 3.  
Telecommunication switching system. G. Deakin. 2,419,540; Apr. 29.  
Telecommunication system. G. Deakin. 2,433,347; Dec. 30.  
Telecommunication system. S. Simon, J. Kruithof, and M. den Hertog. 2,424,585; July 29.  
Telecommunication system, Automatic. J. R. A. Escande. 2,426,188; Aug. 26.  
Telecommunication system employing voice frequency current for selective signaling. M. den Hertog and E. P. G. Wright. 2,423,084; July 1.  
Telegraph alarm system. W. Y. Lang. 2,424,571; July 29.  
Telegraph apparatus, Printing. R. A. Lake. 2,419,782; Apr. 29.  
Telegraph automatic switching system, Printing. D. E. Branson, F. S. Kinkead, J. A. Kreeck, and G. A. Locke. 2,430,447; Nov. 11.  
Telegraph code instruction, Selective-speed. O. I. Thompson. 2,420,802; May 20.  
Telegraph distortion measuring system. J. T. Nelswinter. 2,425,819; Aug. 19.  
Telegraph repeater for long line spans, Intermediate. R. B. Hearn and C. B. Suthiff. 2,422,677; June 24.  
Telegraph secrecy system. W. H. Bliss. 2,432,188; Dec. 9.  
Telegraph, Ship's. R. E. Friend. 2,418,170; Apr. 1.  
Telegraph signal repeater, Start-stop electronic regenerative. W. A. Anderson and R. E. Mathes. 2,430,547; Nov. 11.  
Telegraph switching system. W. R. Young, Jr. 2,413,741; Jan. 7.  
Telegraph system. A. E. Thompson. 2,417,847; Mar. 25.  
Telegraph system. E. F. Watson. 2,416,723; Mar. 4.  
Telegraph system and apparatus for selective single or double channel operation. W. R. Gemmel. 2,418,928; Apr. 15.  
Telegraph system, Electric engine order. C. J. Rasmussen. 2,422,701; June 24.



- Telegraph system having serially connected, step-by-step automatically selective stations, Printing. L. M. Potts and R. G. Schuler. 2,419,730; Apr. 29.
- Telegraph system having serially connected, step-by-step selective station, Printing. L. M. Potts. 2,419,729; Apr. 29.
- Telegraph systems controlled by vibrations of tuning forks, Printing. L. Devaux. 2,431,314; Nov. 25.
- Telegraph trunk circuit. C. A. Dahlbom. 2,415,420; Feb. 11.
- Telegraphphone. R. M. Somers. 2,430,538; Nov. 11.
- Telegraphophone system, Magnetic wire. D. E. Sunstein. 2,425,213; Aug. 5.
- Telemeter. J. L. Zar. 2,418,685; Apr. 8.
- Telemetering device. W. J. Hughes. 2,428,222; Sept. 30.
- Telemetering system. R. G. Ballard. 2,427,180; Sept. 9.
- Telemetering system. B. M. Craig and G. M. Giannini. 2,414,508; Jan. 21.
- Telemetering system. J. Razek. 2,422,313; June 17.
- Telemetric apparatus. I. O. Miner. 2,424,766; July 29.
- Telemetric summation system. W. H. T. Holden. 2,428,800; Oct. 14.
- Telemetric system, Permanent magnet. P. F. Bechberger and W. A. Reichel. 2,415,985; Feb. 18.
- Telephone and telegraph pulse multiplex system, Single carrier. P. K. Chatterjea and L. W. Houghton. 2,428,010; Sept. 30.
- Telephone apparatus, Carrier current. R. K. Crooks. 2,432,560; Dec. 16.
- Telephone attachment, Musical call signal. H. D. Mayfield. 2,431,574; Nov. 25.
- Telephone attachment, Sanitary. R. L. Lewis. 2,427,147; Sept. 9.
- Telephone call-indicating facilities. E. M. Boardman. 2,428,007; Sept. 30.
- Telephone dial attachment. L. Cotton. 2,416,157; Feb. 18.
- Telephone dial attachment. E. C. Farnham. 2,420,070; May 6.
- Telephone dial finger hole masking means. R. E. Hersey. 2,433,366; Dec. 30.
- Telephone drop. W. A. Miner, Jr. 2,429,641; Oct. 28.
- Telephone exchange apparatus. F. R. McBerty. 2,415,437; Feb. 11.
- Telephone exchange system, Multirural semiautomatic. F. P. Gohorel. 2,433,359; Dec. 30.
- Telephone handset. K. H. Blomberg and R. A. G. Lysell. 2,419,388; Apr. 22.
- Telephone lifting device, Desk. C. M. Candy. 2,430,276; Nov. 4.
- Telephone or like system. C. Gillings and L. J. Murray. 2,416,093; Feb. 18.
- Telephone position changing instrument. H. Lee and W. H. Sours. 2,414,110; Jan. 14.
- Telephone receiver, Electromagnetic. J. Wolff. 2,419,697; Apr. 29.
- Telephone recording system. C. F. Ffolliott. 2,431,797; Dec. 2.
- Telephone set, Loud-speaker. T. C. Riebe. 2,433,295; Dec. 23.
- Telephone stall, Sectional. G. R. Lum. 2,427,012; Sept. 9.
- Telephone substation circuit. R. A. Faralla. 2,417,067; Mar. 11.
- Telephone substation set. W. D. Teague and W. D. Teague, Jr. 2,428,593; Oct. 7.
- Telephone switching mechanism, Alternate route. R. E. Hersey. 2,431,692; Dec. 2.
- Telephone system. P. Bakker. Re. 22,943; Dec. 2.
- Telephone system. R. E. Hersey. 2,413,708; Jan. 7.
- Telephone system. B. McKim. 2,421,034; May 27.
- Telephone system. J. E. Ostline. 2,419,282; Apr. 22.
- Telephone system. J. H. Voss and H. F. Obergfell. 2,418,609; Apr. 8.
- Telephone system. J. Wicks. 2,415,057; Jan. 28.
- Telephone system, Alternative routing. M. den Hertog. 2,431,313; Nov. 25.
- Telephone system, Automatic. F. P. Gohorel. 2,426,196; Aug. 26.
- Telephone system, Automatic. N. H. Saunders. 2,421,717; June 3.
- Telephone system, Coin-operated. H. Hovland. 2,427,000; Sept. 9.
- Telephone system directed with the aid of reverberative audio-frequency signals, Automatic. R. Taylor and G. T. Baker. 2,421,169; May 27.
- Telephone system, Intercommunicating. W. T. Powell. 2,422,565; June 17.
- Telephone system, Interexchange trunking. K. L. Burgener. 2,428,549; Oct. 7.
- Telephone system, Interurban. C. F. Stewart and G. J. M. Penet. 2,423,123; July 1.
- Telephone system, Multiexchange community automatic. P. Bakker. 2,427,650; Sept. 23.
- Telephone system, Multioffice. F. P. Gohorel. 2,431,321; Nov. 25.
- Telephone system, Reciprocal signaling trunk. N. A. Newell. 2,422,700; June 24.
- Telephone system, Relay automatic. J. H. Voss. 2,431,850; Dec. 2.
- Telephone system, Two-way. B. A. Trevor and J. B. Atwood. 2,425,495; Aug. 12.
- Telephone transmitter. G. H. Brodie. 2,431,022; Nov. 18.
- Telephoto optical objective. A. Cox. 2,433,438; Dec. 30.
- Telescope. E. J. Kaiser and J. Dauber. 2,416,697; Mar. 4.
- Telescope adjusting device. A. A. A. A. de Gramont. 2,424,011; July 15.
- Telescope mount. S. H. Resch. 2,424,708; July 29.
- Telescope, Split field dual power. L. H. Brown. 2,433,338; Dec. 30.
- Telescopic container. M. I. Williamson. 2,426,911; Sept. 2.
- Telescopic mast. M. Dichter. 2,427,841; Sept. 23.
- Telescopic optical observation instrument. J. W. French. 2,418,298; Apr. 1.
- Telescoping inside gage. C. E. Watson. 2,431,717; Dec. 2.
- Television apparatus. A. N. Goldsmith. 2,416,919; Mar. 4.
- Television apparatus. D. H. L. Jensen and E. I. Harman. 2,413,922; Jan. 7.
- Television, Color. P. C. Goldmark. 2,416,301; Feb. 25.
- Television, Color. C. S. Szegho. 2,431,088; Nov. 18.
- Television studio construction. L. Levey. 2,421,274; May 27.
- Television sweep circuits. G. W. Nagel. 2,414,546; Jan. 21.
- Television synchronizing signal generator. C. E. Hallmark. 2,422,236; June 17.
- Television system. T. L. Gottier. 2,414,228; Jan. 14.
- Television system. V. K. Zworykin. 2,415,059; Jan. 28.
- Television system, Color. A. N. Goldsmith. 2,416,918; Mar. 4.
- Television system, Color. A. N. Goldsmith. 2,431,115; Nov. 18.
- Tell-tale and testing light. V. A. Marco. 2,424,573; July 29.
- Tellurium, Production of pure. D. Gardner. 2,414,294; Jan. 14.
- Temperature and liquid level control for refrigeration apparatus. R. H. Tull and E. S. Wegman. 2,432,547; Dec. 16.
- Temperature and liquid level control for refrigeration apparatus. W. W. Wiseman and G. K. Terry. 2,431,721; Dec. 2.
- Temperature carbonization and product, Low. C. E. Leshner. 2,429,416; Oct. 21.
- Temperature compensated switch. E. C. Thomson. 2,425,164; Aug. 5.
- Temperature compensating meter. C. P. Griffith, R. B. Pressler, and J. J. Delaney. 2,414,596; Jan. 21.
- Temperature compensator for refractometer. W. Seaman. 2,427,996; Sept. 23.
- Temperature control and safety shutoff. H. F. Alfery. 2,414,220; Jan. 14.
- Temperature control apparatus, Balanced resistance type. D. N. Crosthwait, Jr., and E. W. Werts. 2,431,790; Dec. 2.
- Temperature control, Catalyst bed. C. G. Kirkbride and J. B. Hamblen. 2,415,951; Feb. 18.
- Temperature control for internal-combustion engines. M. Mallory. 2,420,436; May 13.
- Temperature control for space heating systems. A. E. Armstrong. 2,429,254; Oct. 21.
- Temperature control, Light color. J. Rabinowitz. 2,433,624; Dec. 30.
- Temperature control means for hollow rolls. W. N. Flynn. 2,431,473; Nov. 25.
- Temperature control mold. R. J. Miller. 2,420,003; May 6.
- Temperature control system. L. D. Skaggs and V. A. Stair. 2,414,339; Jan. 14.
- Temperature control system. W. R. Weeks. 2,428,642; Oct. 7.
- Temperature control systems, Automatic. P. V. Colombo. 2,427,444; Sept. 16.
- Temperature control unit. W. Worth. 2,419,980; May 6.
- Temperature controlling device. H. S. Burling. 2,420,352; May 13.
- Temperature controlling system. N. Erland af Kleen. 2,417,761; Mar. 18.
- Temperature-indicating system, Electrical. A. G. Conrad. 2,430,756; Nov. 11.
- Temperature measuring system. G. Camilli and J. Penvenne. 2,427,900; Sept. 23.
- Temperature polymerization process, Low. J. D. Calfee and R. M. Thomas. 2,433,025; Dec. 23.
- Temperature regulating apparatus, Automatic. S. G. Eskin and C. K. Strobel. 2,418,340; Apr. 1.
- Temperature regulator. L. M. Puster. 2,422,924; June 24.
- Temperature regulator. L. M. Puster. 2,425,439; Aug. 12.
- Temperature responsive control mechanism. L. J. Koci. 2,422,199; June 17.
- Temperature responsive control mechanism. L. J. Koci. 2,426,620; Sept. 2.
- Temperature responsive device for use on grinders and grinding. A. F. Moul. 2,427,064; Sept. 9.
- Temperature responsive systems, Charging. J. E. Bevins. 2,426,663; Sept. 2.
- Tempering process for steel objects. A. F. Holden. 2,426,773; Sept. 2.
- Temple construction for goggles, Adjustable. C. E. Morley and H. S. Davis. 2,427,469; Sept. 16.
- Temple roll, Tight-grip. V. B. Splawn. 2,428,101; Sept. 30.



- Temp. for pipe systems. J. A. Woods. 2,431,100; Nov. 18.  
 Templates or patterns, Reproducing. J. T. Barnes and W. A. Collins. 2,418,007; Mar. 25.  
 Temporary holding pin. C. Elvy. 2,424,309; July 22.  
 Tennis ball can holder. D. P. Brown and P. S. Maslin. 2,429,342; Oct. 21.  
 Tensile strength testing apparatus. A. L. Babcock. 2,421,002; May 27.  
 Tensiometer for yarn coning machines. H. Naumann. 2,428,379; Oct. 7.  
 Tension and stop motion, Mechanical. H. R. Yates. 2,432,960; Dec. 16.  
 Tension control. J. J. Schilthuis and A. L. Jackson. 2,415,764; Feb. 11.  
 Tension control arrangement for winding systems. E. J. Schneider. 2,419,372; Apr. 22.  
 Tension device for knitting machines. F. Scarborough. 2,415,535; Feb. 11.  
 Tension device for winding machines. E. R. Swanson. 2,432,696; Dec. 16.  
 Tension equalizing device. A. Johnson. 2,417,252; Mar. 11.  
 Tensioning device for musical instruments, String. G. Prohl. 2,416,593; Feb. 25.  
 Tent. D. L. Dunn. 2,415,343; Feb. 4.  
 Tent, Field. R. G. Harris. 2,425,279; Aug. 5.  
 Tent, Foldable shelter. A. T. Miner. 2,420,898; May 20.  
 Tent frame. B. S. Ferguson. 2,432,620; Dec. 16.  
 Terminal assembly. F. A. Newcombe. 2,414,604; Jan. 21.  
 Terminal, Battery. W. G. Tenney. 2,425,764; Aug. 19.  
 Terminal block. N. Knapp, Jr. 2,417,420; Mar. 18.  
 Terminal bushing. L. Mauerer. 2,431,951; Dec. 2.  
 Terminal for electric wiring. W. Baumann. 2,427,118; Sept. 9.  
 Terminal for hermetic compressors, Electric. J. Touborg. 2,425,404; Aug. 12.  
 Terminal for sealed-in motor compressor units, Auxiliary. W. J. Schemers. 2,418,729; Apr. 8.  
 Terminal lug for electrical conductors, Solderless. F. G. Krueger. 2,426,831; Sept. 2.  
 Terminal portions in continuous drying systems, Preventing overdrying. R. M. Schaffner. 2,415,445; Feb. 11.  
 Terminals to plates, Securing. A. L. Ge Wertz. 2,426,552; Aug. 26.  
 Termination for high-tension electric cables. D. T. Hollingsworth. 2,423,596; July 8.  
 Ternary acrylic ester, styrene, deionone interpolymers. P. O. Tawney. 2,414,401; Jan. 14.  
 Terpene alcohols, Esterification of. M. E. Aeschbach. 2,423,545; July 8.  
 Terpene alcohols, Preparation of. J. N. Borglin. 2,432,556; Dec. 16.  
 Terpene compounds, Synthesis of. D. A. Lister. 2,413,720; Jan. 7.  
 Terpene ethers. R. F. B. Cox. 2,417,455; Mar. 18.  
 Terpene product and preparation thereof. D. A. Lister. 2,413,719; Jan. 7.  
 Tertiary alkoxy acetonitriles, Preparation of. W. F. Gresham. 2,425,615; Aug. 12.  
 Tertiary butyl derivative of hemi-mellitene and preparing same. M. S. Carpenter. Re. 22,930; Oct. 21.  
 Tertiary ethers, Preparation of. W. E. Grigsby. 2,426,015; Aug. 19.  
 Tertiary olefins, Separating. R. F. Pfennig. 2,414,764; Jan. 21.  
 Test cap. F. F. Sosaya. 2,431,778; Dec. 2.  
 Test instrument for the ocular muscles, Ophthalmic. O. A. Putnam. 2,420,012; May 6.  
 Test means for high-pressure fluid medium containers. D. Mapes. 2,414,113; Jan. 14.  
 Test prod, Duplex indicating. T. R. Fisher. 2,418,872; Apr. 15.  
 Tester for therapeutic masks, Leak. J. A. Heidbrink. 2,420,372; May 13.  
 Tester jack. F. J. Lingel. 2,418,517; Apr. 8.  
 Tester, Synchronization. W. A. Bohannon. 2,425,081; Aug. 5.  
 Testing and indicating system. M. B. McDavitt. 2,419,583; Apr. 29.  
 Testing apparatus, Bifrequency magnetic. F. Kellerman. 2,423,891; July 15.  
 Testing apparatus, Compression. R. Eksergian. 2,431,296; Nov. 18.  
 Testing apparatus, Gear. W. S. Praeg. Re. 22,953; Dec. 23.  
 Testing apparatus, Impulse. R. K. Ghormley. 2,428,488; Oct. 7.  
 Testing apparatus, Impulse. F. Kessler and H. J. McCreary. 2,416,102; Feb. 18.  
 Testing apparatus, Magnetic. R. W. Brown. 2,425,361; Aug. 12.  
 Testing apparatus, Magnetic. J. E. Clarke. 2,423,552; July 8.  
 Testing chamber, Dust storm resistance. L. A. Brewster. 2,422,179; June 17.  
 Testing device. R. R. Fleharty. 2,418,254; Apr. 1.  
 Testing device. E. R. Sanders. 2,420,055; May 6.  
 Testing device, Flexometer. W. R. Bailey. 2,426,583; Sept. 2.  
 Testing device, Gas purity. E. J. Weber. 2,422,604; June 17.  
 Testing device, Spring. H. B. Patterson and V. T. Thomas. 2,415,440; Feb. 11.  
 Testing hardness of materials, Method of and apparatus for. A. J. Hodges. 2,430,876; Nov. 18.  
 Testing machine. P. F. Darby. 2,432,390; Dec. 9.  
 Testing machine grip. F. S. Buckingham. 2,431,165; Nov. 18.  
 Testing machine, Hardness. D. E. Mick. 2,427,151; Sept. 9.  
 Testing machine, Rotating beam fatigue. A. Sonntag. 2,423,349; July 1.  
 Testing machine, Tensile. W. D. Lawshe and W. A. Gardiner. 2,424,177; July 15.  
 Testing machine, Tension. W. H. Setz. 2,420,202; May 6.  
 Testing, Method and apparatus for stress-strain. C. M. Zener and D. M. Van Winkle. 2,423,867; July 15.  
 Testing system for impulse generators. H. D. MacPherson. 2,419,580; Apr. 29.  
 Testing system for non-typing selector. D. E. Foley and W. D. Johnson. 2,418,401; Apr. 1.  
 Testing the curvature of reflector molds, Method and apparatus for. B. Goldberg and N. C. Benson. 2,430,870; Nov. 18.  
 Testing the hardness of paramagnetic objects, Magnetically. G. Frederickson. 2,427,774; Sept. 23.  
 Tetraacetyl ribonyl chloride. M. Tishler. 2,428,437; Oct. 7.  
 Tetraacylribonyl-xylylidine. M. Tishler. 2,420,210; May 6.  
 Tetrachlor succinonitrile and producing it. O. W. Cass and H. B. Copelin. 2,422,528; June 17.  
 Tetraethyl lead in the presence of an anhydride, Manufacturing. W. J. Clem and H. Podolsky. 2,426,598; Sept. 2.  
 Tetraethyl lead, Producing. G. F. Ruddies. 2,415,444; Feb. 11.  
 Tetra ethyl lead, Purification of. A. E. Parmelee. 2,426,789; Sept. 2.  
 Tetrahydrodibenzopyrans having marihuana activity and making same, Optically active. R. Adams. 2,419,934; May 6.  
 Tetrahydrodurylic acid. J. A. Van Allan and J. E. Jones. 2,428,860; Oct. 14.  
 Tetrahydrophthalic anhydrides, Preparation of. H. L. Gerhart and L. M. Adams. 2,423,234; July 1.  
 Tetralin, Isomerization of. C. L. Thomas and H. S. Bloch. 2,416,965; Mar. 4.  
 Tetrapentaerythritol decanitate and ammonium nitrate explosive. J. A. Wyler. 2,429,573; Oct. 21.  
 Tetrasodium pyrophosphate, Rapidly soluble. A. G. Aitchison. 2,427,642; Sept. 16.  
 Textile. A. Unger. 2,430,748; Nov. 11.  
 Textile articles, Making elastic vinyl copolymer resin. T. A. Feld, Jr. 2,428,453; Oct. 7.  
 Textile articles, Synthetic. E. W. Rugeley, T. A. Feld, Jr., and J. L. Petrokubi. 2,420,565; May 13.  
 Textile cone and manufacture. E. C. Sloan. 2,429,431; Oct. 21.  
 Textile decorating composition. E. Armatys. 2,421,000; May 27.  
 Textile decorating compositions. D. M. Gans and J. R. Abrams. 2,416,620; Feb. 25.  
 Textile fabric. J. A. Krasnov and M. M. Kuller. 2,429,187; Oct. 14.  
 Textile fabric and producing same. G. Bloch. 2,423,366; July 1.  
 Textile fabric with polyvinyl resin, Coating. R. H. Czezowitza. 2,424,386; July 22.  
 Textile fibers with vat dyes, Dyeing. N. R. Vieira. 2,415,379; Feb. 4.  
 Textile fibre blending and distributing apparatus and method. J. H. Senior. 2,433,790; Dec. 30.  
 Textile finishing composition comprising a methoxymethyl melamine and an aliphatic alcohol having at least eight carbon atoms. J. M. Grim. 2,426,770; Sept. 2.  
 Textile machine construction. M. F. Thoma. 2,425,577; Aug. 12.  
 Textile machines, Checking and controlling the operation of. F. Lambach. 2,423,105; July 1.  
 Textile marking apparatus. H. J. Theiler. 2,421,366; May 27.  
 Textile material, Producing cellulose regenerated. W. H. Charch and W. F. Underwood. 2,414,800; Jan. 28.  
 Textile materials comprising a cellulose carboxylic ester with vat dyes, Dyeing. H. G. Scull. 2,424,857; July 29.  
 Textile materials containing organic derivatives of cellulose with leuco sulfuric esters of vat dyestuffs, Coloration of. C. M. Croft and W. H. Hindle. 2,428,833; Oct. 14.  
 Textile materials, Delustring and weighting. R. P. Foulds and J. T. Marsh. 2,416,988; Mar. 4.  
 Textile materials, Flame and fireproofing of. G. W. Seymour and G. C. Ward. 2,415,112; Feb. 4.  
 Textile materials, Flameproofing. G. W. Seymour and G. C. Ward. 2,415,113; Feb. 4.  
 Textile materials which are sensitive towards water, Production of. J. G. Williams and L. Krause. 2,417,535; Mar. 18.  
 Textile product, Producing a. W. Wade. 2,417,453; Mar. 18.  
 Textile products and producing same. E. E. Weiss. 2,433,722; Dec. 30.  
 Textile softening composition. E. A. Vitalis and J. E. Lynn. 2,427,242; Sept. 9.



- Textile softening with nitrogen containing linear ester polymer. J. Nelles, O. Bayer, W. Tischbein, and F. Baehren. 2,417,513; Mar. 18.
- Textile strand and fabric, Composite. A. H. Davis. 2,424,743; July 29.
- Textile treating compounds containing silicon and the process of making same. C. A. MacKenzie. 2,415,017; Jan. 28.
- Textiles and making same, Noninflammable waterproofed. F. F. Pollak. 2,421,218; May 27.
- Textiles and other articles having a basis of a polyvinyl compound, Production of. H. Dreyfus. 2,427,126; Sept. 9.
- Textiles by treatment with formaldehyde and a guanidine salt of an alpha-beta unsaturated carboxylic acid. Improving the dyeing properties of cellulosic. J. H. MacGregor. 2,417,312; Mar. 4.
- Textiles, Mildewproofing. A. L. Houk. 2,430,017; Nov. 4.
- Textiles, Pretreatment of noncellulosic. J. D. Pollard. 2,423,429; July 1.
- Textiles with melamine formaldehyde resin, Pretreatment of cellulosic. J. D. Pollard. 2,423,428; July 1.
- Thawing device, Pipe. F. L. Taulman. 2,426,976; Sept. 2.
- Theater program schedule indicator. F. A. Erhard. 2,419,894; Apr. 22.
- Theatre chair. S. B. McDonald. 2,430,356; Nov. 4.
- Theatrical and advertising display. F. Shipman. 2,418,198; Apr. 1.
- Theobromine and other products from cocoa materials, Obtaining. B. J. Zenlea. 2,422,874; June 24.
- Therapeutic bath. K. Beyrodt. 2,428,004; Sept. 30.
- Therapeutic bath. F. W. Ille. 2,417,499; Mar. 18.
- Therapeutic compositions and preparing same. S. L. Ruskin. 2,419,230; Apr. 22.
- Therapeutic device. E. H. Tompkins. 2,425,655; Aug. 12.
- Therapeutic dressing. A. E. Sharples. 2,430,740; Nov. 11.
- Therapeutic metal cevamate compositions. S. L. Ruskin. 2,427,692; Sept. 23.
- Therapeutic method and means. V. H. Steel. 2,415,659; Feb. 11.
- Therapeutic zinc peroxide composition, Preparing a. J. H. Young. 2,429,971; Oct. 28.
- Thermal conversion of hydrocarbons, Process and apparatus for. S. C. Eastwood and L. P. Evans. 2,432,298; Dec. 9.
- Thermal gas turbine motive unit used for driving electric direct current generators, Regulating. M. H. L. Sédille. 2,432,177; Dec. 9.
- Thermal insulation, Transparent. C. H. Herter. 2,420,879; May 20.
- Thermal power plants, Regulation of the output of. F. Salzmann. 2,414,170; Jan. 14.
- Thermal preconditioning catalyst in hydrocarbon conversion. R. B. Secor. 2,432,822; Dec. 16.
- Thermal reduction of metals. S. E. Hybinette and F. C. Cary. 2,426,148; Aug. 19.
- Thermal responsive element. J. R. Adriansen and R. N. Eck. 2,418,150; Apr. 1.
- Thermal retarder. C. M. Osterheld. 2,428,525; Oct. 7.
- Thermal-retarder for electric water heaters, Thermal reluctance rod. C. M. Osterheld. 2,417,778; Mar. 18.
- Thermal snap-acting switch. P. E. Willman. 2,415,546; Feb. 11.
- Thermal switch. L. R. Peters. 2,427,741; Sept. 23.
- Thermally controlled machine tool. M. Kronenberg and H. Ernst. 2,430,127; Nov. 4.
- Thermally controlled mixing valve. G. Muffy. 2,430,133; Nov. 4.
- Thermally responsive device. F. R. Higley. 2,420,078; May 6.
- Thermionic gas-filled rectifier circuit. H. T. Ramsay. 2,423,815; July 8.
- Thermionic tube. W. W. Eitel and J. A. McCullough. 2,422,828; June 24.
- Thermocouple, Cooled radiation. E. F. Sarver. 2,416,775; Mar. 4.
- Thermocouple for measuring surface temperature, Flexibly mounted. J. A. Obermaier. 2,422,124; June 10.
- Thermocouple for pilot burners. W. A. Ray. 2,430,887; Nov. 18.
- Thermocouple for use in high velocity fluid streams, Shielded. J. F. Floyd. 2,414,370; Jan. 14.
- Thermocouple, High-frequency. O. G. McAninch. 2,431,953; Dec. 2.
- Thermoelectric current generating device. E. F. Sarver. 2,425,647; Aug. 12.
- Thermoelectric generating device. H. J. Findley. 2,415,005; Jan. 28.
- Thermoelectric generating device. W. A. Ray. 2,416,455; Feb. 25.
- Thermometer. H. B. Brown. 2,415,274; Feb. 4.
- Thermometer. G. A. Stone. 2,415,309; Feb. 4.
- Thermometer, Clinical. L. Eisele. 2,413,959; Jan. 7.
- Thermometer, Clinical. F. E. Tanksley. 2,414,001; Jan. 7.
- Thermometer shaker. A. Le Sage. 2,426,776; Sept. 2.
- Thermopile for measuring air temperature. N. P. W. Frisk. 2,417,923; Mar. 25.
- Thermopiles, Producing. A. Raspet. 2,427,508; Sept. 16.
- Thermoplastic container body, End-sealed. W. V. Roos. 2,430,995; Nov. 18.
- Thermoplastic molding material, Heating and packaging. G. W. Wacker. 2,423,915; July 15.
- Thermoplastic sheets to other materials, Attaching. R. S. Ames. 2,414,705; Jan. 21.
- Thermosetting composition containing vinyl chloride-vinylidene chloride copolymer. T. H. Rogers, Jr., and R. D. Vickers. 2,421,852; June 10.
- Thermosetting urea-formaldehyde composition. D. E. Cordier. 2,414,025; Jan. 7.
- Thermostable catalysts for the dehydrogenation of hydrocarbons. A. E. Smith and O. A. Beeck. 2,422,172; June 10.
- Thermostat. E. K. Clark and J. S. Wojcik. 2,424,150; July 15.
- Thermostat. W. A. Dehn and A. E. Armstrong. 2,418,762; Apr. 8.
- Thermostat. J. W. Miller and R. E. Fell. 2,427,615; Sept. 16.
- Thermostat and cut-out, Water heater. C. M. Osterheld. 2,415,964; Feb. 18.
- Thermostat, Battery charging. B. F. W. Heyer. Re. 22,883; May 27.
- Thermostat, Compensating. U. U. Savolainen. 2,425,687; Aug. 12.
- Thermostat control, Cooling system. S. C. and N. B. Earley, E. J. Sanders, W. C. Skareen, R. L. Davies, and J. A. Hughes. 2,423,140; July 1.
- Thermostat control mechanism for heating systems. G. W. Crise. 2,425,998; Aug. 19.
- Thermostat, Guarded fire alarm. F. O. V. Hiergesell. 2,421,942; June 10.
- Thermostat, Pressure compensated. G. A. Gibson. 2,431,801; Dec. 2.
- Thermostat, Resistance bulb. V. O. Beam, J. M. Wilson, and B. Cyr. 2,428,003; Sept. 30.
- Thermostat, Snap acting. R. L. Dougherty. 2,415,473; Feb. 11.
- Thermostatic control. L. M. Brown. 2,424,433; July 22.
- Thermostatic control for lubrication systems. H. T. Booth. 2,433,420; Dec. 30.
- Thermostatic control of electric heating pads. M. E. Porter. 2,425,686; Aug. 12.
- Thermostatic regulator. N. Morris. 2,424,250; July 22.
- Thermostatic steam trap. I. Van Zwienen. 2,432,838; Dec. 16.
- Thermostatic surge valve. H. Cruzan and E. C. Warrick. 2,419,630; Apr. 29.
- Thermostatic switch. C. R. Blosser and E. K. Clark. 2,427,946; Sept. 23.
- Thermostatic switch. E. K. Clark. 2,421,538; June 3.
- Thermostatic switch. E. L. Cline. 2,417,860; Mar. 25.
- Thermostatic switch. W. B. Griffith. 2,420,775; May 20.
- Thermostatic switch. R. H. Jordan. 2,418,647; Apr. 8.
- Thermostatic switch. J. O. Rosche. 2,431,771; Dec. 2.
- Thermostatic switch assembly. F. R. Bean. 2,425,717; Aug. 19.
- Thermostatically controlled charger. C. W. Dalzell. 2,413,865; Jan. 7.
- Thickener. H. Hardinge. 2,418,973; Apr. 15.
- Thieno uracils and preparing same, Substituted. B. R. Baker. 2,432,961; Dec. 16.
- Thimble or finger protector. J. Lloyd. 2,432,579; Dec. 16.
- Thin coatings, Method of measuring the thickness of. H. Friedman. 2,428,796; Oct. 14.
- Thioamides, Synthesis of. J. E. Mahan. 2,421,031; May 27.
- Thiocarbamosulfenamides as fungicides. J. B. Skaptason. 2,432,255; Dec. 9.
- Thiocarbamo sulfenamides, Substituted. P. T. Paul and B. A. Hunter. 2,421,352; May 27.
- Thiocarbamyl sulfenamides. G. E. P. Smith, Jr., and E. L. Carr. 2,424,921; July 29.
- Thiocyanates, Production of. W. H. Hill. 2,424,983; Aug. 5.
- Thiocyanates, Treatment of organic. J. N. Borglin. 2,423,291; July 1.
- Thiodiglycolic acid, Obtaining. A. E. Bearse. 2,425,224; Aug. 5.
- Thiodiglycolic acid, Obtaining. A. E. Bearse. 2,425,226; Aug. 5.
- Thiodiglycolic acid, Production of esters of. A. E. Bearse and R. R. Cruse. 2,425,225; Aug. 5.
- Thioketones containing a cycloalkyl group. G. H. Keyes. 2,429,469; Oct. 21.
- Thiol antitoxic agents, Organic. R. A. Peters, L. A. Stocken, R. H. S. Thompson, F. N. Woodward, A. F. Millidge, and E. J. Gasson. 2,432,797; Dec. 16.
- Thiol esters, Preparation of. E. K. Ellingboe. 2,423,641; July 8.
- Thionyl chloride, Manufacturing. A. Pechukas. 2,431,823; Dec. 2.
- Thionyl chloride, Producing. W. H. Salzenberg and M. Sveda. 2,420,623; May 13.
- Thiophan-3-one-4-carboxylic-acid-esters and manufacture of same, Derivatives of. P. Karrer. 2,416,100; Feb. 18.
- Thiophene, Acylation of. H. D. Hartough and J. J. Sardella. 2,432,991; Dec. 23.
- Thiophene compounds and obtaining the same. F. F. Blicke. 2,425,721-3; Aug. 19.
- Thiophene, Production of. J. H. Boyd, Jr., and C. R. Wagner. 2,414,631; Jan. 21.
- Thiourea derivatives of polymeric compounds. E. F. Izard and B. W. Howk. 2,418,941; Apr. 15.



- Third-dimensional pictures and third-dimensional portrayal of anatomy and surgery. L. P. Good. 2,421,609; June 3.
- Third rail support. W. F. Walker. 2,422,509; June 17.
- Thiuram disulfides, Manufacture of. L. A. Gillette. 2,423,310; July 1.
- Thiuram polysulfides, Preparation of. G. W. Cable and J. L. Richmond. 2,414,014; Jan. 7.
- Thorium and the rare-earth group from minerals, Separation of. F. Soddy. 2,425,573; Aug. 12.
- Thorium compound protective coating for reflecting surfaces. G. L. Dimmick. 2,427,592; Sept. 16.
- Thread advancing device. C. F. Gram. 2,414,644; Jan. 21.
- Thread advancing reel. A. J. L. Moritz. 2,424,489; July 22.
- Thread-advancing reel. R. W. Stanley. 2,419,605; Apr. 29.
- Thread-advancing reel. R. W. Stanley. 2,431,712; Dec. 2.
- Thread-advancing reel. G. P. Torrence. 2,425,136; Aug. 5.
- Thread case and carrier therefor for lock-stitch sewing machines. A. R. Wood. 2,419,698; Apr. 29.
- Thread checking comparator gauge. G. A. J. G. Bourdelais. 2,431,021; Nov. 18.
- Thread controlled signal for sewing machines, Bobbin. R. W. Winberg. 2,420,275; May 6.
- Thread-controlling mechanism for sewing machine. R. Becker. 2,428,956; Oct. 14.
- Thread cutter for sewing machines. A. Blowers. 2,423,001; June 24.
- Thread-cutting mechanism for sewing machines. A. R. Wood. 2,426,543; Aug. 26.
- Thread drier having radiant heater and automatic control means. F. H. M. New. 2,420,399; May 13.
- Thread grinding machine. G. Stewart, G. Brinkmann, and H. N. Seyferth. 2,417,714; Mar. 18.
- Thread grinding wheel. J. E. Wainwright. 2,426,290; Aug. 26.
- Thread guide and mounting for tricot warp knitting. G. T. Broberg. 2,428,448; Oct. 7.
- Thread guide, Pigtail. G. F. Taylor. 2,431,150; Nov. 18.
- Thread guide rocking mechanism. R. C. Amidon. 2,414,080; Jan. 14.
- Thread-guiding and tensioning means. J. H. Bradnack and H. D. House. 2,429,798; Oct. 28.
- Thread handling device. R. W. Stanley. 2,415,115; Feb. 4.
- Thread on bobbins, Starting. La V. R. Graybeal. 2,431,323; Nov. 25.
- Thread or fabric, Making elastic. S. W. Alderfer. 2,427,334; Sept. 16.
- Thread or the like, Manufacture of. H. B. Kline, A. H. Burkholder, and W. O. Israel. 2,422,021; June 10.
- Thread rack. F. J. Campbell. 2,431,917; Dec. 2.
- Thread remover for looms, Pneumatic. L. J. Hooper and G. N. Peterson. 2,432,157; Dec. 9.
- Thread rolling. J. W. Batchelder. 2,418,217; Apr. 1.
- Thread severing device for sewing machines. A. D. Kehrer. 2,426,026; Aug. 19.
- Thread severing mechanism for sewing machines. J. Galkin. 2,424,391; July 22.
- Thread tension, Controlling. K. E. Wilhelm. 2,425,909; Aug. 19.
- Thread, yarn, filament and the like. J. Irwin, Jr. 2,418,771; Apr. 8.
- Threaded connection, Adjustable. J. W. Leighton. 2,428,086; Sept. 30.
- Threaded fastener. R. Mitchell. 2,429,103; Oct. 14.
- Threader, Needle. E. E. Lehmann. 2,419,495; Apr. 22.
- Threading bar. F. J. Barteck and N. M. Gibson. 2,415,077; Feb. 4.
- Threads, filaments, films, and the like from alginates, Manufacture of. E. E. Tallis. 2,422,993; June 24.
- Threads, Manufacture of alginate. R. B. Hall. 2,423,075; June 24.
- 3-amino-derivatives of steroids and making same. P. L. Julian, J. W. Cole, A. Magnani, and E. W. Meyer. 2,430,467; Nov. 11.
- 3-aryl-1,5-dibrompentane-3-carboxylic acid, Production of. E. Walton and M. B. Green. 2,421,729; June 3.
- 3,5-diketo pyrazolidine color formers. J. D. Kendall and D. J. Fry. 2,427,911; Sept. 23.
- 3-(5-ethoxy-3-indolyl)-propyl compound. G. L. Jenkins and H. W. Murphy. 2,416,258; Feb. 18.
- 3,4-dihydropyranocoumarins and making them. M. A. Stahmann, M. Ikawa, and K. P. Link. 2,427,579; Sept. 16.
- 3-hydroxy cholic acid and making them, Derivatives of. E. C. Kendall. 2,419,220; Apr. 22.
- 3-indole aldehyde, Production of. E. C. Britton, J. E. Livak, and J. C. Vander Weele. 2,414,715; Jan. 21.
- 3-keto-20,21-dihydroxy saturated pregnane compounds. T. Reichstein. 2,423,517; July 8.
- 3-methylol-2(3)-benzothiazolinethione as a fungicide. W. P. ter Horst. 2,430,791; Nov. 11.
- 3-Picoline, Purification of. F. E. Cislak and W. R. Wheeler. 2,430,804; Nov. 11.
- 3-substituted 4-hydroxycoumarin and making it. M. A. Stahmann, M. Ikawa, and K. P. Link. 2,427,578; Sept. 16.
- 3-Sulfolanylamines, Unsaturated. R. C. Morris and A. V. Snider. 2,430,821; Nov. 11.
- 3,3 bis(4 dimethylaminophenyl) 6-dimethylamino-phenyl phthalide. C. S. Adams. 2,417,897; Mar. 25.
- Three-way clutch. W. C. Starkey. 2,415,050; Jan. 28.
- Three-way valve. J. Mercier. 2,426,941; Sept. 2.
- Throat for fastening inserting machines. J. A. Harkeem. 2,416,312; Feb. 25.
- Throttle control mechanism. A. G. Heisel. 2,433,217; Dec. 23.
- Throttle control mechanism. L. D. Thostenson. 2,420,111; May 6.
- Throttle for free-piston units. W. A. Ledwith. 2,426,311; Aug. 26.
- Throttle stop, Thermostatic. L. E. Perrine. 2,415,529; Feb. 11.
- Throttling and unloading valve. J. Kanuch. 2,428,117; Sept. 30.
- Throttling device for two opposed electrically controlled forces. J. R. Rafter. 2,423,727; July 8.
- Throwout bearing. C. M. Zubler. 2,424,530; July 22.
- Thrust balancing construction for turbines, compressors, and the like. A. A. Griffith. 2,429,681; Oct. 28.
- Thrust element for cylinder liner removing and inserting tool. G. M. Graham. 2,421,324; May 27.
- Thumb for artificial hands, Mechanically operated. F. P. Simpson. 2,433,301; Dec. 23.
- Thymoxy-acetamidines. C. Djerassi and C. R. Scholz. 2,425,730; Aug. 19.
- Ticket applying machine. E. C. Hake. 2,422,543; June 17.
- Ticket issuing machine. R. H. Helsel. 2,417,596; Mar. 18.
- Ticket machine. C. Dodegge. 2,419,012; Apr. 15.
- Ticket strip. E. M. Boegner. 2,430,209; Nov. 4.
- Ticket strip and ticket. B. H. Freedman. 2,416,686; Mar. 4.
- Tickets, Selectively feeding and printing. R. H. Helsel. 2,427,602; Sept. 16.
- Tie adapter for yarns, Double. L. Scharf and A. Lamparelli. 2,424,774; July 29.
- Tie and collar stay. F. J. Humpola. 2,423,776; July 8.
- Tie, Bow. A. F. Taborski. 2,421,872; June 10.
- Tie control. S. Sawinski. 2,430,952; Nov. 18.
- Tie for line conductors, Insulator. R. D. Pyle. 2,421,286; May 27.
- Tie form. T. O. Johnson. 2,430,021; Nov. 4.
- Tie holder. M. Kaden. 2,423,561; July 8.
- Tie holder. E. S. Nelson. 2,430,943; Nov. 18.
- Tie-lock for neckties. C. A. Feeley. 2,413,756; Jan. 7.
- Tie, Made-up bow. I. A. Gamer. 2,417,159; Mar. 11.
- Tie, Metal. E. B. Bright. 2,431,104; Nov. 18.
- Tie pin. J. C. Maxwell. 2,427,468; Sept. 16.
- Tie rack. H. J. Fowler. 2,428,454; Oct. 7.
- Tie rod socket bearing. M. P. Graham. 2,417,160; Mar. 11.
- Tie treating apparatus, Railway. H. E. Woolery. 2,424,202; July 15.
- Tightening baling wires and the like. A. P. D. Belanger. 2,427,489; Sept. 16.
- Tile. A. Bochet. 2,419,005; Apr. 15.
- Tile, Coated wall. E. R. Gilbert. 2,432,747; Dec. 16.
- Tile forming machine. R. B. Burns. 2,427,044; Sept. 9.
- Tile, Wall or roof. J. Roe. 2,432,445; Dec. 9.
- Tiltable laundry washer. J. L. Boulade. 2,432,374; Dec. 9.
- Tilting chair. W. E. Herold. 2,424,753; July 29.
- Timber, Seasoning. A. M. Kobiolk. 2,422,557; June 17.
- Time and distance measuring system. A. M. Skellett. 2,426,245; Aug. 26.
- Time between pulses, Measurement of. W. S. Wilson. 2,426,910; Sept. 2.
- Time control apparatus, Program preselecting. F. H. Owens. 2,432,540; Dec. 16.
- Time controlled container. C. Rubane. 2,415,911; Feb. 18.
- Time controlled mechanism for phonograph apparatuses. L. A. Durant. 2,421,835; June 10.
- Time-delay device for actuating valves and the like. R. D. Delamere. 2,419,337; Apr. 22.
- Time delay electric switch. J. J. Foley. 2,429,457; Oct. 21.
- Time delay feature for flame failure protective devices. C. M. Lathrop. 2,429,131; Oct. 14.
- Time delay relay, Current responsive. W. C. Morris. 2,432,328; Dec. 9.
- Time division multiplex. E. Peterson. 2,423,466; July 8.
- Time division radar ranging system. O. E. De Lange. 2,426,182; Aug. 26.
- Time fuse structure, Mechanical. B. B. Patton. 2,421,390; June 3.
- Time measuring device. A. J. Busch, J. W. Dehn, and W. Whitney. 2,414,443; Jan. 21.
- Time operated switch. S. G. Isserstedt. 2,419,077; Apr. 15.
- Time outlet. E. Bourquin. 2,423,680; July 8.
- Timepiece, Calendar. J. M. Sparkes. 2,431,968; Dec. 2.
- Time switch. L. R. Harmon. 2,426,350; Aug. 26.
- Time switch. G. O. Puerner. 2,424,116; July 15.
- Time switch device. R. D. Huszagh. 2,429,690; Oct. 28.
- Timer. C. Fischer. 2,417,641; Mar. 18.
- Timer and actuating means, Combined. K. E. Bemis. 2,430,444; Nov. 11.
- Timer and selector switch mechanism, Combined. W. F. Oliver. 2,427,300; Sept. 9.
- Timer, Audible. K. Lane. 2,420,887; May 20.
- Timer, Electric. L. L. Holmes, Jr. 2,423,316; July 1.



- Timer, Electronic. W. A. Gieseke. 2,415,168; Feb. 4.  
 Timer escapement. C. E. Godley. 2,431,395; Nov. 25.  
 Timer for riveters. B. J. Yanchenko. 2,423,920; July 15.  
 Timer, Injection. A. Kalitinsky. 2,420,431; May 13.  
 Timer system, Milking. H. B. Babson. 2,416,139; Feb. 18.  
 Timing apparatus. T. B. Gibbs. 2,425,613; Aug. 12.  
 Timing apparatus, Gear. H. W. Semar. 2,431,428; Nov. 25.  
 Timing apparatus, Semiautomatic electrical. H. W. Jones and E. Meincke. 2,415,886; Feb. 18.  
 Timing arrangement, Electrical. A. Nemet. 2,431,705; Dec. 2.  
 Timing circuit. L. A. Meacham. 2,422,696; June 24.  
 Timing control scarfing apparatus, Automatic. G. C. Rhemann, Jr., and P. H. Fickenscher. 2,424,270; July 22.  
 Timing device. G. C. Armstrong. 2,414,432; Jan. 21.  
 Timing device. E. F. Flint. 2,428,662; Oct. 7.  
 Timing device. W. L. Hunt. 2,414,467; Jan. 21.  
 Timing device. J. H. Reid. 2,421,130; May 27.  
 Timing device. M. H. Rhodes. 2,430,583; Nov. 11.  
 Timing device. P. O. Shrack. 2,420,019; May 6.  
 Timing device for recorders. C. D. McClure. 2,424,622; July 29.  
 Timing relay. W. F. Hurlburt. 2,414,305; Jan. 14.  
 Timing system, Aperiodic pulse. S. C. Hight. 2,426,216; Aug. 26.  
 Timing system, Pulsation. C. B. Stadum. 2,431,284; Nov. 18.  
 Timing unit for centrifugal switches. E. W. Rickmeyer. 2,414,836; Jan. 28.  
 Timing wave device. W. D. Hershberger. 2,432,196; Dec. 9.  
 Tin bearing materials, Treating. I. E. Muskat. 2,416,709; Mar. 4.  
 Tin ore treatment. G. Gutzeit, E. J. Roberts and R. B. Thompson. 2,413,762; Jan. 7.  
 Tin-plate brightening apparatus. E. W. Hopper. 2,424,034; July 15.  
 Tin plating from potassium stannate baths. F. A. Lowenheim and M. M. Sternfels. 2,424,472; July 22.  
 Tin-plating process. N. F. Blackburn. 2,432,718; Dec. 16.  
 Tire: *See*—  
     Tire.  
 Tire. S. M. Elliott. 2,430,560; Nov. 11.  
 Tire and mounting therefor. E. E. Wallace. 2,415,616; Feb. 11.  
 Tire and rim, Tubeless. R. W. Brown. 2,424,918; July 29.  
 Tire bead lock. F. Herzegh. 2,419,075; Apr. 15.  
 Tire bulge gauge. R. R. Beezley. 2,431,363; Nov. 25.  
 Tire carrier. J. J. Black. 2,420,854; May 20.  
 Tire carrier. J. Selzer and S. G. Johnson. 2,417,952; Mar. 25.  
 Tire carrier skid assembly, Spare. P. J. Huebshman. 2,418,178; Apr. 1.  
 Tire chain. G. M. Eddy. 2,415,583; Feb. 11.  
 Tire chain. W. F. Merritt. 2,427,973; Sept. 23.  
 Tire chain. W. R. Royer. 2,431,709; Dec. 2.  
 Tire chain. J. L. Wenzel. 2,420,804; May 20.  
 Tire chain assembly. R. Chartier. 2,433,545; Dec. 30.  
 Tire chain securing device. I. B. Holtz. 2,429,720; Oct. 28.  
 Tire cross chain. R. C. Mason. 2,424,478; July 22.  
 Tire demounting device. W. Polt. 2,418,849; Apr. 15.  
 Tire device, Pneumatic. J. C. Malen. 2,426,628; Sept. 2.  
 Tire drier. K. E. Adams. 2,428,732; Oct. 7.  
 Tire element supply mechanism. C. S. McChesney. 2,418,783; Apr. 8.  
 Tire equalizer, Automatic dual. A. H. Davidson. 2,427,445; Sept. 16.  
 Tire expander. W. Rush. 2,430,996; Nov. 18.  
 Tire fabric, Making. C. K. Novotny. 2,415,023; Jan. 28.  
 Tire inflation indicator valve cap. P. Rubin. 2,417,449; Mar. 18.  
 Tire inflation stand. T. V. Smith. 2,418,855; Apr. 15.  
 Tire lifting tool. W. R. Peters. 2,422,848; June 24.  
 Tire loosening tool. W. R. Carroll. 2,422,467; June 17.  
 Tire mold body. E. A. Glynn. 2,429,715; Oct. 28.  
 Tire mounting rim. H. T. Kraft. 2,427,216; Sept. 9.  
 Tire, Pneumatic. M. and L. Frankel. 2,413,915; Jan. 7.  
 Tire, Pneumatic. J. F. Purdy. 2,432,630; Dec. 16.  
 Tire, Pneumatic. J. L. Reynolds. 2,423,995; July 15.  
 Tire, Pneumatic. A. E. Wensley. 2,431,897; Dec. 2.  
 Tire press. G. H. Mitchell. 2,416,195; Feb. 18.  
 Tire pressure indicator. E. C. Jones. 2,429,024; Oct. 14.  
 Tire pressure indicator. M. A. Lacey. 2,432,526; Dec. 16.  
 Tire rack. F. L. Sargent and W. J. Crader. Re. 22,928; Oct. 14.  
 Tire removing apparatus. M. B. Kelley. 2,423,652; July 8.  
 Tire repair unit, Portable. J. C. Crowley. 2,432,139; Dec. 9.  
 Tire replacing tool. O. V. Teegarden. 2,421,856; June 10.  
 Tire, Resilient. H. E. Huntsberry. 2,421,330; May 27.  
 Tire rim mounting. S. A. Malthaner. 2,414,156; Jan. 14.  
 Tire, Steel spring. J. V. Martin. 2,432,672; Dec. 16.  
 Tire traction device. K. F. Sentivany. 2,414,067; Jan. 7.  
 Tire, Tractor. J. G. Keyer. 2,415,290; Feb. 4.  
 Tire tread. E. E. French. 2,424,608; July 29.  
 Tire treads, Manufacture of pneumatic. N. H. Brewer. 2,417,466; Mar. 18.  
 Tires, Apparatus and method for repair of. E. E. Lakso. 2,421,101; May 27.  
 Tires, Balancing pneumatic. D. E. Sheahan. 2,429,032; Oct. 14.  
 Tires, Process and apparatus for repair of. E. E. Lakso. 2,421,097; May 27.  
 Tires, Process and apparatus for repairing. C. W. Vogt. 2,421,096; May 27.  
 Tires, Recapping of. C. W. Vogt. 2,421,099; May 27.  
 Tires, Repair of. E. E. Lakso and A. S. Chandler. 2,421,102; May 27.  
 Tires, Repair of. C. W. Vogt and E. E. Lakso. 2,421,098; May 27.  
 Titania gel-boria catalyst and its preparation. G. C. Connolly. 2,424,152; July 15.  
 Titaniferous magnetite treatment. T. P. Campbell. 2,417,101; Mar. 11.  
 Titanium dioxide and calcium-starch-metaborate as pigments (in paper and in paint), Mixtures of. W. L. Craig. 2,425,058; Aug. 5.  
 Titanium dioxide dielectric materials. M. M. Safford. 2,424,853; July 29.  
 Titanium fluophosphate glass. K.-H. Sun. 2,430,539; Nov. 11.  
 Titanium hydride, Production of. P. P. Alexander. 2,427,338; Sept. 16.  
 Titanium nitrile, Production of. C. M. Olson. 2,413,778; Jan. 7.  
 Titanium salt solutions, Purification of. G. L. Lewis. 2,414,049; Jan. 7.  
 Titanium solutions, Preparation of. C. W. Rau and F. E. Swartz, Jr. 2,416,216; Feb. 18.  
 Titanium tetrachloride, Purification of. W. F. Meister. 2,416,191; Feb. 18.  
 Toaster. R. E. Barclay. 2,414,081; Jan. 14.  
 Toaster. E. Petrakakis. 2,417,266; Mar. 11.  
 Toaster. N. Schafnitz. 2,419,326; Apr. 22.  
 Toaster, Automatic electric. B. G. Olving. 2,420,188; May 6.  
 Toaster, Automatic electric. B. G. Olving. 2,431,195; Nov. 18.  
 Toasting machine. H. E. Cherry. 2,414,139; Jan. 14.  
 Tobacco, Denicotinizing. F. J. Sowa. 2,429,567; Oct. 21.  
 Tobacco pipe. M. Downing. 2,429,808; Oct. 28.  
 Tobacco pipe. J. Neiser. 2,416,537; Feb. 25.  
 Tobacco pipe. C. J. O. Rydholm. 2,431,586; Nov. 25.  
 Tobacco smoking, Pipe. W. E. Heron. 2,415,883; Feb. 18.  
 Tobacco, Treatment of. A. J. Berger and H. S. Greene. 2,419,109; Apr. 15.  
 Toe closing for socks and the like. G. T. Whitlock. 2,423,744; July 8.  
 Toe spreader held in position by a firm, flexible connector joined to a foot band. B. H. Sherman. 2,428,343; Sept. 30.  
 Toggle actuated sliding jaw wrench. W. Petersen. 2,417,013; Mar. 4.  
 Toggle iron plug switch. T. L. Parker. 2,430,138; Nov. 4.  
 Toilet. W. P. Miller, M. A. Davalle, and V. E. Dickens. 2,426,230; Aug. 26.  
 Toilet case. E. K. Renz. 2,419,165; Apr. 15.  
 Toilet for infants, Traveling. S. Brief and S. Haddad. 2,431,538; Nov. 25.  
 Toilet tissue holder. G. B. Stone. 2,419,798; Apr. 29.  
 Token or like dispensing device. M. W. Hunter. 2,431,121; Nov. 18.  
 Toluene from petroleum, Production of synthetic. D. L. Fuller and B. S. Greensfelder. 2,426,824; Sept. 2.  
 Toluene, Production of. A. J. Johnson, M. Souders, Jr., and J. E. Marsland. 2,420,883; May 20.  
 Tone-control agents for silver halide emulsions. D. J. Fry and J. D. Brooks. 2,423,767; July 8.  
 Tone control arrangement. A. B. Atkinson. 2,433,330; Dec. 30.  
 Tong, Pipe. G. E. Mullinix. 2,417,085; Mar. 11.  
 Tong, Power. J. S. Montgomery and H. S. Kelly. 2,429,424; Oct. 21.  
 Tongs. W. Reise. 2,420,980; May 20.  
 Tongs, Pivoted jaw latch-grip pipe. O. V. Jones. 2,423,326; July 1.  
 Tool: *See*—  
     Abrading tool. Convertible garden tool.  
     Antisludge tool. Corner finishing tool.  
     Assembling tool. Cutting tool.  
     Automatic machine tool. Drafting-machine aligning tool.  
     Bolt anchor applying tool. tool.  
     Branding tool. Drill grinding tool.  
     Broaching tool. Electric motor-driven tool.  
     Cabinet finishing tool. Electrically heated tool.  
     Camber adjusting tool. Endless band tool.  
     Camber correction tool. Expandable honing tool.  
     Caterpillar tractor friction assembling and disassembling tool. Finger operated rotatable tool.  
     Cemented carbide cutting tool. Forming and shaping tool.  
     Clamping tool. Garden tool.  
     Combination lathe tool. Grinding wheel dressing tool.  
     Combined arc welding and chipping tool. Hand carding tool.  
     Composite punching and dimpling tool. Honing tool.  
     Compression tool. Internal-combustion percussion tool.  
     Jar opening tool.  
     Keeper inserting tool.



## Tool: See—Continued.

- Laminated abrasive tool.  
Lapping tool.  
Layout tool.  
Live center tool.  
Machine tool.  
Marking and punching tool.  
Marking tool.  
Metal removing tool.  
Metalworking tool.  
Multiple unit machine tool.  
Nut removing tool.  
Oil well tool.  
Pattern controlled machine tool.  
Pin setting tool.  
Pipe cutting tool.  
Plumber's tool.  
Pneumatic tool.  
Polygonal generating tool.  
Poppet valve tool.  
Portable hand-operated tube bending tool.  
Portable tool.  
Pulling tool.  
Punching and dimpling tool.  
Radius forming tool.  
Rivet bucking tool.  
Rivet setting tool.  
Riveting tool.  
Rope splicing tool.  
Tool. W. L. Jerome. 2,415,136; Feb. 4.  
Tool. J. F. Kopczynski and R. H. King. 2,431,567; Nov. 25.  
Tool. E. F. Scheide. 2,432,813; Dec. 16.  
Tool. L. A. Smith. 2,427,816; Sept. 23.  
Tool and constructing the same, Machine. L. I. Yeomans and De W. Clausen. 2,415,269; Feb. 4.  
Tool and detachable press, Portable compressing. J. Rogoff and I. F. Matthisse. 2,424,849; July 29.  
Tool and jewel setter, Watchmaker's staking. W. E. Berlincourt. 2,421,310; May 27.  
Tool and making the same, Jewelry carrying. M. Coronel. 2,421,926; June 10.  
Tool and tip therefor, Cutting. C. E. Kraus. 2,414,231; Jan. 14.  
Tool carriage control, Grinding machine. G. Erikson and E. C. Filstrup. 2,420,170; May 6.  
Tool control mechanism for machine tools. B. S. T. Bishop and F. A. Bicknell. 2,426,139; Aug. 19.  
Tool dressing apparatus. E. A. Wright. 2,414,784; Jan. 21.  
Tool for applying sheet clamps. J. C. Wright. 2,433,640; Dec. 30.  
Tool for cylinder heads, Lifting. T. R. Hosler. 2,427,104; Sept. 9.  
Tool for deep wells, Fishing. W. B. Costin. 2,416,613; Feb. 25.  
Tool for dimpling. O. W. Albert and D. A. Webster. 2,421,732; June 3.  
Tool for flaring or beading tubing. G. M. Graham. 2,430,168; Nov. 4.  
Tool for flaring tubing. E. A. and R. B. Wenk. 2,424,871; July 29.  
Tool for flooring, Clamping. J. H. Fleming and J. T. Sisk. 2,427,268; Sept. 9.  
Tool for forcing the bead of partially mounted tire into the rim. R. J. Heitzman. 2,419,352; Apr. 22.  
Tool for generating spherical surfaces. Fly. R. Linn. 2,431,815; Dec. 2.  
Tool for grinding in internal-combustion engine valves. A. W. Porter. 2,419,728; Apr. 29.  
Tool for inserting cylinder liners. H. W. Lotz. 2,421,276; May 27.  
Tool for lining pipe. H. Browning. 2,430,273; Nov. 4.  
Tool for magnetic lifting. S. Koller. 2,417,762; Mar. 18.  
Tool for oil wells, Cementing. C. W. Breukelman. 2,426,164; Aug. 26.  
Tool for punching metal roofing. E. Payne. 2,418,984; Apr. 15.  
Tool for raising overcoils on hair springs. C. Martenson. 2,426,404; Aug. 26.  
Tool for removing cartridge core tubes in radiators. W. E. Wilson. 2,420,992; May 20.  
Tool for removing connectors from treads. W. L. Crosby. 2,417,456; Mar. 18.  
Tool for rotor blades, Gauging and bending. R. B. Roberts. 2,422,402; June 10.  
Tool for screws or the like, Clamping and starting. E. Davis. 2,429,345; Oct. 21.  
Tool for setting blind rivets. M. C. Ketchum. 2,428,165; Sept. 30.  
Tool for setting snap fasteners, Hand. P. E. Fenton. 2,413,702; Jan. 7.  
Tool for sheet metal, Portable pneumatic edge crimping. C. R. Sprinkle. 2,414,178; Jan. 14.  
Tool for uniting sheet material, Electrically heated. F. G. Dodge. 2,430,920; Nov. 18.  
Tool for upsetting hollow rivets. R. H. Gill. 2,430,563; Nov. 11.  
Rotary abrading tool.  
Rotary buffing tool.  
Rotary cutting tool.  
Rotary tool.  
Saw setting tool.  
Seating and facing tool.  
Self-feeding soldering tool.  
Serrating tool.  
Shearing tool.  
Spreader tool.  
Sprinkler head shut-off tool.  
Stock cutting and burnishing tool.  
Thermally controlled machine tool.  
Tire lifting tool.  
Tire loosening tool.  
Tire replacing tool.  
Traveller-applying tool.  
Tube beading tool.  
Tube end flaring tool.  
Valve seat insert tool.  
Water pump refacing tool.  
Weeding tool.  
Welding tool.  
Wire cutting tool.  
Wire insulation cutting tool.  
Wire terminal turning and binding tool.  
Wire twisting hand tool.  
Work centering tool.  
Tool for well bores, Retrieving. C. R. Athy. 2,431,361; Nov. 25.  
Tool guide. J. H. Ewert. 2,414,292; Jan. 14.  
Tool handle. C. A. Carlson. 2,433,198; Dec. 23.  
Tool handle. W. G. Prentice. 2,417,946; Mar. 25.  
Tool having attached bit removers, Hammer type weld cleaning. J. C. Honhart. 2,423,189; July 1.  
Tool head. R. McCabe. 2,424,479; July 22.  
Toolholder. D. S. Anthony. 2,416,975; Mar. 4.  
Toolholder. J. B. Herring. 2,425,242; Aug. 5.  
Toolholder. C. B. King. 2,423,892; July 15.  
Toolholder. H. Petersen. 2,429,564; Oct. 21.  
Tool holder. C. L. Ramsey. 2,422,983; June 24.  
Tool holder. M. J. Steffes. 2,418,734; Apr. 8.  
Tool holder. J. V. Thomas. 2,422,375; June 17.  
Toolholder. H. C. Wilson. 2,425,409; Aug. 12.  
Toolholder, Adjustable. J. Kis. 2,423,983; July 15.  
Toolholder, Aligning. K. J. Hall. 2,431,476; Nov. 25.  
Toolholder and lock. I. A. Elkins. 2,432,144; Dec. 9.  
Toolholder appliance for latches. J. E. Weigle and J. Minder. 2,428,508; Oct. 7.  
Toolholder assembly. H. H. Weld. 2,431,852; Dec. 2.  
Toolholder, Floating. T. R. Jones. 2,416,586; Feb. 25.  
Tool, Interrupting the movement of. W. Johnndrew. 2,416,055; Feb. 18.  
Toolmaker's utility block. R. H. Colwill. 2,422,773; June 24.  
Tool or beading and flaring tubes. K. C. Bugg and H. L. Hart. 2,430,554; Nov. 11.  
Tool orienting method and apparatus. D. Hering. 2,425,319; Aug. 12.  
Tool setting height gauge. A. F. O. Calow. 2,417,234; Mar. 11.  
Tool used in correcting camber and casting of steering knuckles, Bending. L. W. Simons. 2,427,536; Sept. 16.  
Tool with means for boring tapers, Eccentric boring. M. A. Grunlan. 2,427,855; Sept. 23.  
Tool with twist lock handle, Portable electric. R. Happe. 2,430,422; Nov. 4.  
Tools and flexible shaft for removing dents from tubing, Expanding. W. Martin. 2,423,458; July 8.  
Tools, Making kitchen. A. J. Eggleston. 2,430,977; Nov. 18.  
Tools, Making stamping. W. G. Kifer. 2,416,629; Feb. 25.  
Tools, Method of and apparatus for treating. J. Dworkowski and J. E. Quigley. 2,418,338; Apr. 1.  
Toothbrush. G. B. Aufseiser. 2,429,740; Oct. 28.  
Toothbrush. A. Babe. 2,431,861; Dec. 2.  
Toothbrush. G. L. Briggs. 2,431,606; Nov. 25.  
Tooth brush. A. A. Goldberg. 2,418,344; Apr. 1.  
Toothbrush. C. Kisky. Re. 22,938; Nov. 25.  
Toothbrush. R. W. Stavelly. 2,414,775; Jan. 21.  
Toothbrush. M. J. Walker. 2,429,437; Oct. 21.  
Toothbrush and dentifrice container. H. A. Kehl. 2,417,874; Mar. 25.  
Toothbrush holder. S. L. Barna. 2,418,615; Apr. 8.  
Toothbrush holder. T. Kaskouras. 2,424,098; July 15.  
Toothbrush holder. R. C. Kulling. 2,414,379; Jan. 14.  
Toothbrush holder. J. A. Toombs. 2,425,579; Aug. 12.  
Toothbrush with adjustable brush head. M. Krueger. 2,427,411; Sept. 16.  
Tooth extractor. W. M. Brantley. 2,430,271; Nov. 4.  
Toothpick dispenser. F. A. Brunner. 2,420,812; May 20.  
Toothpick dispenser. J. E. Kenkel. 2,426,149; Aug. 19.  
Tooth powder dispenser. A. M. Baker. 2,430,204; Nov. 4.  
Top, Flying. F. Lefustec. 2,432,774; Dec. 16.  
Top for gas cook stoves, Cooking. H. M. Reeves. 2,430,079; Nov. 4.  
Top for vehicles, Collapsible. E. Acheson. 2,423,748; July 8.  
Top lining, Automobile. J. V. Yankus. 2,418,918; Apr. 15.  
Topper, Beet. A. H. Bassett. 2,429,044; Oct. 14.  
Torch, Adjustable-electrode arc-welding. E. R. Ross. 2,425,830; Aug. 19.  
Torch, Cutting. C. Kandel. 2,417,650; Mar. 18.  
Torch cutting machines. C. Mott, A. F. Chouinard, and J. F. Dove. 2,417,511; Mar. 18.  
Torch, Electric underwater. R. Dittrich. 2,431,544; Nov. 25.  
Torch, Gas. G. L. Walker. 2,418,208; Apr. 1.  
Torch, Gas. G. L. Walker. 2,418,533; Apr. 8.  
Torch, Oxyarc underwater cutting. H. O. Austin and E. D. Bunnell. 2,416,278; Feb. 25.  
Torch, Water-cooled lance. H. G. Hughey. 2,433,610; Dec. 30.  
Torches in oxyacetylene cutting machines, Supporting. J. Bucko. 2,433,734; Dec. 30.  
Torpedo. E. Alterio. 2,428,191; Sept. 30.  
Torpedo, Aerial. W. G. Wilson. 2,419,866; Apr. 29.  
Torpedo control. W. H. Smith. 2,419,173; Apr. 15.  
Torpedo control valve. J. H. Hammond, Jr. 2,420,241; May 6.  
Torpedo director. R. M. Freeman. 2,421,749; June 10.  
Torpedo director. E. P. Ross. 2,413,846; Jan. 7.  
Torpedo, Electrically propelled. A. H. Chilton. 2,414,928; Jan. 28.  
Torpedo switch. J. A. Guidosh. 2,428,565; Oct. 7.  
Torpedo, Well. S. T. Yuster. 2,416,077; Feb. 18.  
Torque balancing of jet propulsion turbine plant. F. A. M. Heppner, J. D. Voce, and D. R. Evans. 2,416,389; Feb. 25.  
Torque control for paired electric motors. G. E. King. 2,424,321; July 22.



- Torque controller, Electric motor. J. B. Reeves. 2,428,723; Oct. 7.
- Torque converter and fluid coupling, Rotary hydraulic. J. Jandasek. 2,420,429; May 13.
- Torque converter and fluid coupling, Turbine type fluid. J. Jandasek. 2,427,458; Sept. 16.
- Torque converter, Fluid. R. J. Miller. 2,418,362; Apr. 1.
- Torque converter, Fluid. H. C. Swift. 2,416,129; Feb. 18.
- Torque converter with fluid clutch connecting axially shiftable reaction member to impeller during coupling operation. J. Jandasek. 2,415,287; Feb. 4.
- Torque exerting means for gyroscopes. R. S. Curry, Jr., and O. E. Elsvall. 2,415,813; Feb. 18.
- Torque machine, Pneumatic. L. C. Broecker. 2,415,552; Feb. 11.
- Torque measurements. H. P. Kuehni. 2,421,626; June 3.
- Torque measuring device. E. J. Martin, R. N. Frawley, and C. E. Grinstead. 2,415,513; Feb. 11.
- Torque meter. J. H. Collins, Jr., and J. C. Nettles. 2,428,012; Sept. 30.
- Torque meter. H. Ninnis and K. L. Johansson. 2,428,920; Oct. 14.
- Torque regulator. S. L. Lindbeck. 2,414,539; Jan. 21.
- Torque responsive clutch. H. E. Carnagua and J. M. Simpson. 2,433,428; Dec. 30.
- Torque transmitting coupling. A. Y. Dodge and R. W. Hays. 2,429,091; Oct. 14.
- Torsion balance. R. Craig and R. Q. Boyer. 2,417,392; Mar. 11.
- Torsion-rod suspension for tandem through-axle vehicles. J. G. Holmstrom and W. M. Brown. 2,428,160; Sept. 30.
- Torsional testing apparatus. F. Slusher. 2,420,385; May 13.
- Torsionally operable plate clamp. C. S. Crafts and W. M. Pollock. 2,428,263; Sept. 30.
- Totalizing mechanism for record controlled tabulators. Cross. J. Mueller. 2,421,078; May 27.
- Towel and garment, Beach. V. C. Alexander. 2,420,344; May 13.
- Towel, Dish. B. H. Foster and H. E. Sunbury. 2,413,964; Jan. 7.
- Towel rack. B. R. Jones. 2,415,637; Feb. 11.
- Tower, Bubble. H. C. Glitsch. 2,294,675; Dec. 9.
- Tower construction. H. Cohen. 2,432,382; Dec. 9.
- Towing bar. A. Horton. 2,424,095; July 15.
- Towing device. J. W. Hingley. 2,416,921; Mar. 4.
- Toxic composition. F. W. K. Hartshorne. 2,415,282; Feb. 4.
- Toy. S. L. Beder. 2,419,872; Apr. 29.
- Toy. S. L. Beder. 2,424,538; July 29.
- Toy. A. and K. Berndt. 2,418,922; Apr. 15.
- Toy. H. E. Cole, H. O. McAlinden, and R. B. Banks. 2,426,437; Aug. 26.
- Toy. J. Ercolani. 2,426,675; Sept. 2.
- Toy. S. L. Long. 2,420,181; May 6.
- Toy. J. B. Mutch. 2,423,657; July 8.
- Toy acrobat. D. Atlas. 2,430,971; Nov. 18.
- Toy, Action. H. G. Fisher. 2,424,607; July 29.
- Toy aerial bomb. C. A. Ramirez. 2,428,092; Sept. 30.
- Toy aircraft. F. A. Christiansen. 2,426,259; Aug. 26.
- Toy aircraft. H. M. Porter. 2,417,267; Mar. 11.
- Toy aircraft flight control device. J. H. Nash. 2,432,119; Dec. 9.
- Toy airplane. A. B. Mull. 2,430,134; Nov. 4.
- Toy airplane. H. L. Wilson. 2,420,510; May 13.
- Toy airplane equipment. S. R. Gerbino and D. E. Whitney. 2,423,380; July 1.
- Toy airplane, Manipulatable. N. E. Walker. 2,416,805; Mar. 4.
- Toy and use. R. T. James. 2,415,012; Jan. 28.
- Toy, Animated. G. F. Helgren. 2,425,471; Aug. 12.
- Toy, Aquatic. J. H. Wright. 2,433,184; Dec. 23.
- Toy assembly means, Structural. E. M. Roach. 2,429,109; Oct. 14.
- Toy block. W. N. de Sherbinin. 2,425,729; Aug. 19.
- Toy construction. R. B. Bennett. 2,429,213; Oct. 21.
- Toy crane. E. C. Olson. 2,429,070; Oct. 14.
- Toy, Creeping. O. Steinitz. 2,425,051; Aug. 5.
- Toy, Educational. L. D. Myers. 2,429,027; Oct. 14.
- Toy, Educational. J. H. Segal. 2,416,959; Mar. 4.
- Toy electrical engine. D. J. Weirich. 2,426,131; Aug. 19.
- Toy, Figure. L. E. Hansen. 2,425,429; Aug. 12.
- Toy gun and container. J. H. Millstein. 2,424,045; July 15.
- Toy, Hare and tortoise. O. A. Dishmaker. 2,419,990; May 6.
- Toy helicopter. W. T. Lewis. 2,418,269; Apr. 1.
- Toy house, Knockdown. M. F. Barnes. 2,422,217; June 17.
- Toy, Humpty dumpty breakup. J. H. Wright. 2,433,540; Dec. 30.
- Toy, Illuminated. B. P. Yogan. 2,428,133; Sept. 30.
- Toy, Kaleidoscopic. N. Zimmerman. 2,430,318; Nov. 4.
- Toy, Kangaroo. S. A. Duvall. 2,417,157; Mar. 11.
- Toy kite. W. W. Whaley. 2,431,289; Nov. 18.
- Toy machine gun. R. R. Goodwin and G. M. Dasher. 2,420,076; May 6.
- Toy, Mechanical. L. E. Carson. 2,414,716; Jan. 21.
- Toy, Mechanical. D. R. McClure, Jr. 2,423,198; July 1.
- Toy parachute. C. A. Hornbeck. 2,421,618; June 3.
- Toy, Parachute. A. Stillman. 2,426,323; Aug. 26.
- Toy pistol. H. D. Allen. 2,421,403; June 3.
- Toy road system. E. Fields. 2,416,473; Feb. 25.
- Toy rocker. E. L. Scott. 2,417,618; Mar. 18.
- Toy, Sounding. A. T. Linney. 2,420,287; May 6.
- Toy, Spring driven. M. R. Spencer. 2,418,201; Apr. 1.
- Toy, Surface figure. E. Schuerger. 2,432,817; Dec. 16.
- Toy vehicle. F. B. Schroeder. 2,418,868; Apr. 1.
- Toy vehicle. A. W. Swenson. 2,421,041; May 27.
- Toy, Wheeled. E. S. Savage. 2,415,195; Feb. 4.
- Toy, Wheeled sounding. H. B. Morris. 2,428,124; Sept. 30.
- Toy, Woodpecker. F. E. Thomas. 2,414,179; Jan. 14.
- Trace blanking and mixing, Return. M. Spector. 2,426,419; Aug. 26.
- Tracer for electrically operated and controlled duplicating machines. J. C. Shaw. 2,428,472; Oct. 7.
- Tracer, Three-dimensional. M. Turchan and C. Walker. 2,433,005; Dec. 23.
- Tracing device. J. B. Lobb. 2,427,612; Sept. 16.
- Tracing medium. W. M. Hinman. 2,413,764; Jan. 7.
- Track and aperture unit for projectors, Film. E. J. Wienke. 2,425,217; Aug. 5.
- Track and drive from dual tires. B. Walker. 2,433,409; Dec. 30.
- Track and drive transmission therefor, Endless. W. H. Pethick. 2,428,502; Oct. 7.
- Track construction, Endless. F. L. Haushalter. 2,422,483; June 17.
- Track drive. R. Schilling and H. O. Fuchs. 2,427,162; Sept. 9.
- Track for track-laying vehicles. E. J. Hardig. 2,420,133; May 6.
- Track for track-laying vehicles. H. R. Matheny and R. Keefer. 2,430,354; Nov. 4.
- Track for track-laying vehicles. C. O. Slemmons. 2,429,242; Oct. 21.
- Track guides, Making. J. M. Leake. 2,415,212; Feb. 4.
- Track support. H. A. Knox. 2,419,955; May 6.
- Track, Trolley and conductor. W. H. Ringe. 2,427,475; Sept. 16.
- Track, Trussed. H. Y. Law. 2,426,032; Aug. 19.
- Tracks for model railways. T. Pinder. 2,428,468; Oct. 7.
- Trackway for wardrobe trunks, Extension. R. A. Totty. 2,417,387; Mar. 11.
- Track wheel. J. Kuchar. 2,425,698; Aug. 12.
- Tracking system, Automatic. H. M. Stearns. 2,427,029; Sept. 9.
- Traction chain. J. W. Rutledge. 2,425,644; Aug. 12.
- Traction device. J. J. Friedman. 2,422,006; June 10.
- Traction device. T. L. James. 2,433,367; Dec. 30.
- Traction device. W. E. Wine. 2,431,599; Nov. 25.
- Traction device for tires. P. Ragon. 2,426,974; Sept. 2.
- Traction device for vehicle wheels. C. T. Willson. 2,423,806; July 8.
- Traction device for wheeled vehicles. H. B. Harrop. 2,426,683; Sept. 2.
- Traction-increasing wheel. T. Colombo. 2,424,799; July 29.
- Traction supply device. J. Platak. 2,428,680; Oct. 7.
- Tractive surface device, Manufacture of. D. J. Bonawit and E. R. Zeidler. 2,416,427; Feb. 25.
- Tractor. S. Bizjak. 2,421,867; June 10.
- Tractor accessory. R. F. Varner. 2,424,005; July 15.
- Tractor accessory and mounting therefor. L. B. Neighbour. 2,413,775; Jan. 7.
- Tractor and implement connecting means. F. C. Warne. 2,413,807; Jan. 7.
- Tractor and trailing plow connections, Releasable power-operated. F. T. Court. 2,422,530; June 17.
- Tractor attachment mechanism. H. E. Luebbers. 2,415,014; Jan. 28.
- Tractor boom. A. E. Witherall. 2,417,031; Mar. 4.
- Tractor combine combination. E. Dunker. 2,428,517; Oct. 7.
- Tractor control device. A. B. Heath. 2,432,417; Dec. 9.
- Tractor, Hydraulically steered. N. C. Storey. 2,426,652; Sept. 2.
- Tractor loader, Hydraulic. H. L. Johnson. 2,427,461; Sept. 16.
- Tractor loader mechanism. V. H. Borgelt. 2,433,086; Dec. 23.
- Tractor-mounted circular-saw tree-felling machine with a laterally-acting tree-pusher. G. King. 2,426,694; Sept. 2.
- Tractor mounted planter. J. L. Hipple. 2,417,931; Mar. 25.
- Tractor mower. M. Ronning and K. M. Keith. 2,422,044; June 10.
- Tractor or vehicle, Agricultural. L. Dufour. 2,429,711; Oct. 28.
- Tractor-trailer brake system. J. A. Forbes. 2,413,818; Jan. 7.
- Tractor-trailer braking system. E. R. Price. 2,429,196; Oct. 14.
- Tractor-trailer combination and trailer prop. S. B. Winn. 2,431,531; Nov. 25.
- Tractors, Compression links of. R. C. Price. 2,415,968; Feb. 18.
- Traffic indicating apparatus, Telephone. E. W. Hill. 2,421,943; June 10.
- Trailer. K. Ballinger. Re. 22,914; Sept. 16.
- Trailer. F. L. Stockwell. 2,417,790; Mar. 18.
- Trailer. R. C. Townsend. 2,431,436; Nov. 25.
- Trailer and swingable axle construction therefor. W. L. Keehn. 2,432,018; Dec. 2.



- Trailer attachment. B. A. Swanson. 2,424,641; July 29.  
Trailer attachment and hitch for tractors. H. G. Ferguson. 2,432,739; Dec. 16.  
Trailer, Boat. J. D. Larson. 2,425,252; Aug. 5.  
Trailer coupling. E. Ellberg. 2,425,521; Aug. 12.  
Trailer, Foldable axle. B. Fitzpatrick. 2,431,388; Nov. 25.  
Trailer for boats. G. Van Agtmael. 2,415,771; Feb. 11.  
Trailer for self-propelled combines. W. S. Ausherman. 2,418,567; Apr. 8.  
Trailer, Four wheel. C. Williams. 2,417,338; Mar. 11.  
Trailer hitch. H. R. Forney. 2,415,478; Feb. 11.  
Trailer hitch. H. F. Schultz. 2,425,838; Aug. 19.  
Trailer hitch. E. W. Vars. 2,432,357; Dec. 9.  
Trailer, Logging. R. Diard. 2,413,910; Jan. 7.  
Trailer, Logging. C. E. Dorsey, Jr. 2,419,442; Apr. 22.  
Trailer shutoff valve. E. R. Price. 2,429,197; Oct. 14.  
Trailer steering mechanism. H. C. Nunes. 2,418,090; Mar. 25.  
Trailer, Transport. G. T. Ronk. 2,415,706; Feb. 11.  
Trailer, Utility. H. F. Malm. 2,433,229; Dec. 23.  
Trailer vehicle. J. C. Smith. 2,430,742; Nov. 11.  
Train order stand. H. S. Loeffler and G. V. Guerin, Jr. 2,427,645; Sept. 16.  
Training apparatus and method, Artillery. R. B. Johnson. 2,418,512; Apr. 8.  
Training device. H. A. Marsh. 2,420,048; May 6.  
Transceiver system. M. G. Crosby. 2,416,794; Mar. 4.  
Transducer, Capillary. C. F. Burgess. 2,416,978; Mar. 4.  
Transducer, Electroacoustic. H. Benioff. 2,419,196-7; Apr. 22.  
Transducer having damping slots, Electroacoustic. F. M. Wiener. 2,416,557; Feb. 25.  
Transducer, Magnetostrictive electroacoustic. P. J. Herbst. 2,421,263; May 27.  
Transducer, Piezoelectric. J. P. Arndt, Jr. 2,423,922; July 15.  
Transducing system. R. W. Raitt. 2,418,953; Apr. 15.  
Transfer apparatus. L. E. Crosby. 2,420,867; May 20.  
Transfer apparatus for loose material, Load. F. Meyer. 2,416,489; Feb. 25.  
Transfer gear case. C. D. Peterson and E. J. Barth. 2,415,758; Feb. 11.  
Transfer mechanism. A. A. Campbell. 2,420,299; May 13.  
Transfer mechanism for a counter. H. J. Mumma. 2,423,991; July 15.  
Transfer mechanism for calculating machines. T. O. Mehan and H. E. Hooe. 2,429,522; Oct. 21.  
Transfer mechanism, Loom. J. Stuer. 2,418,324; Apr. 1.  
Transfer mechanism, Tens. H. M. Banuelos. 2,416,891; Mar. 4.  
Transfer molding press. A. L. Alves. 2,420,405; May 13.  
Transferrer arm, Bodily movable. R. G. Turner. 2,432,837; Dec. 16.  
Transformer. C. P. Boucher and F. A. Kuhl. 2,429,604; Oct. 28.  
Transformer. A. Boyajian. 2,428,613; Oct. 7.  
Transformer. F. W. Edmonds. 2,424,973; Aug. 5.  
Transformer. G. A. Lewis. 2,414,232; Jan. 14.  
Transformer. J. R. Sutherland. 2,421,298; May 27.  
Transformer. J. M. Wilson. 2,413,897; Jan. 7.  
Transformer, Adjustable. J. A. Anderson. 2,424,379; July 22.  
Transformer and making same, Three-phase. A. R. Woolfolk. 2,431,155; Nov. 18.  
Transformer and reactor, Combined. C. W. Kronmiller. 2,425,622; Aug. 12.  
Transformer, Cautery. W. A. Arnesen. 2,418,687; Apr. 8.  
Transformer circuit. H. O. Stephens. 2,421,300; May 27.  
Transformer, Commutated. K. L. Hansen. 2,420,950; May 20.  
Transformer connection. W. M. Johnson. 2,421,299; May 27.  
Transformer, Electrical. D. Schwenneisen. 2,430,738; Nov. 11.  
Transformer for radio-frequency selectors, Coupling. W. C. Moore. 2,430,990; Nov. 18.  
Transformer for wave guides, Impedance. A. G. Fox. 2,422,191; June 17.  
Transformer for wave guides, Impedance. A. G. Fox. 2,432,094; Dec. 9.  
Transformer, High reactance. E. G. Goddard. 2,419,771; Apr. 29.  
Transformer, High-voltage. C. E. Torsch and E. B. Cain. 2,428,948; Oct. 14.  
Transformer system, Variable voltage. Z. O. St. Palley. 2,415,712; Feb. 11.  
Transformer, Three-phase. E. A. Link. 2,431,128; Nov. 18.  
Transition attachment for motion-picture cameras. P. Baia. 2,422,815; June 24.  
Transition section for electrical trolley apparatus. B. W. Benbow. 2,428,957; Oct. 14.  
Translating device and making it. W. G. Ffann, J. H. Scaff, and A. H. White. 2,430,028; Nov. 4.  
Translating material and device and making them. R. G. Treuting. 2,419,237; Apr. 22.  
Translating mechanism, Pulse. W. E. Newman. 2,417,376; Mar. 11.  
Translating system, Wave-signal. B. D. Loughlin. 2,415,359; Feb. 4.  
Translation system for blocking layer photovoltaic cells. K. Rath. 2,416,215; Feb. 18.  
Translation system, Self-balancing. K. Rath. 2,423,616; July 8.  
Translator, Wave. D. D. Grieg. 2,419,547; Apr. 29.  
Transmission. R. N. Bennett. 2,431,727; Dec. 2.  
Transmission. R. Chilton. 2,416,154; Feb. 18.  
Transmission, Duplicate. N. H. Young, Jr. 2,429,787; Oct. 28.  
Transmission. T. F. Lilly. 2,432,201; Dec. 9.  
Transmission. W. D. Tipton. 2,430,089; Nov. 4.  
Transmission. C. F. Voytech. 2,418,378; Apr. 1.  
Transmission. W. F. Wilson. 2,422,173; June 10.  
Transmission actuated engine valve mechanism of the combination gear type. C. M. Berry. 2,432,649; Dec. 16.  
Transmission and control mechanism, Lathe. W. F. Groene. 2,419,639; Apr. 29.  
Transmission and control system, Hydraulic pulsator. E. C. and W. R. Bohall. 2,417,232; Mar. 11.  
Transmission and control therefor, Change-speed. O. H. Banker. 2,417,051; Mar. 11.  
Transmission and differential wheel drive control mechanism therefor, Motor vehicle. H. C. Harbers. 2,416,478; Feb. 25.  
Transmission and reception system, Printing telegraph. J. B. Brady. 2,420,029; May 6.  
Transmission and steering mechanism. E. L. Bush. 2,427,710; Sept. 23.  
Transmission apparatus and controls, Automatic. O. H. Banker. 2,427,652; Sept. 23.  
Transmission apparatus, Fluid. L. Montrose. 2,426,321; Aug. 26.  
Transmission apparatus, Weight motor and power. C. E. Sowerwine. 2,422,753; June 24.  
Transmission apparatus with compensating means for unequal motor volumes, Closed hydraulic. F. Biszantz. 2,422,389; June 17.  
Transmission cable structure. C. Norton. 2,416,206; Feb. 18.  
Transmission, Change-speed. O. H. Banker. 2,427,653; Sept. 23.  
Transmission, Change-speed. H. D. Burkhalter, Jr. 2,417,406; Mar. 18.  
Transmission, Compound power. O. K. Kelley. 2,433,052; Dec. 23.  
Transmission, Constant drive variable-speed. R. Haynes. 2,427,724; Sept. 23.  
Transmission control. R. B. Aspinwall. 2,430,799; Nov. 11.  
Transmission control device. E. A. Derungs. 2,421,188; May 27.  
Transmission control, Hydraulic. A. Y. Dodge. 2,421,190; May 27.  
Transmission control, Hydraulic. A. L. Johnson and S. A. Kraft. 2,415,885; Feb. 18.  
Transmission control mechanism. J. C. Auten. 2,432,710-11; Dec. 16.  
Transmission control, Tractor. C. P. Pinardi and H. L. Brock. 2,416,640; Feb. 25.  
Transmission device, Variable-speed. F. G. Costello. 2,417,914; Mar. 25.  
Transmission, Elastic drive. A. D. Pentz. 2,427,620; Sept. 16.  
Transmission errors, Correction of. G. M. Giannini. 2,432,003; Dec. 2.  
Transmission for steam or internal-combustion engines. L. G. Bacon. 2,420,581; May 13.  
Transmission, Frequency modulation light beam. M. Rettinger. 2,423,254; July 1.  
Transmission gearing for power plants. K. Baumann. 2,423,820; July 15.  
Transmission, Hydraulic. F. O. Jordan. 2,430,614; Nov. 11.  
Transmission, Hydraulic power. J. Robinson. 2,416,801; Mar. 4.  
Transmission, Intermittent. E. F. Chandler. 2,416,739; Mar. 4.  
Transmission level luffing device for derricks and jib cranes, Variable. R. Goodman and H. J. Jacoby. 2,419,209; Apr. 22.  
Transmission line. G. D. Forbes and H. Shapiro. 2,423,306; July 1.  
Transmission line. H. A. Wheeler. 2,421,137; May 27.  
Transmission line, Artificial. R. B. Nelson. 2,420,559; May 13.  
Transmission line bridge circuit. W. L. Barrow. 2,416,790; Mar. 4.  
Transmission line circuit. N. E. Lindenblad. 2,425,379; Aug. 12.  
Transmission line having dead-end portion. R. W. George. 2,416,827; Mar. 4.  
Transmission line, Radio frequency. D. R. Crosby. 2,416,981; Mar. 4.  
Transmission line switch. J. J. Ayres. 2,427,940; Sept. 23.  
Transmission line transducer. J. Evans. 2,428,272; Sept. 30.  
Transmission line volting indicator. D. A. Howard, Jr. 2,416,694; Mar. 4.  
Transmission line with active networks. K. S. Johnson. 2,424,238; July 22.  
Transmission mechanism. J. O. Berndtson. 2,426,160; Aug. 26.  
Transmission mechanism. V. Hanson. 2,416,311; Feb. 25.



- Transmission mechanism, Crankless motion. T. L. Sherman. 2,430,788; Nov. 11.
- Transmission mechanism, Power. H. R. Abbrecht. 2,424,873; July 29.
- Transmission mechanism, Power. P. E. Reimuller. 2,417,948; Mar. 25.
- Transmission mechanism, Power. E. S. Segard. 2,432,077; Dec. 2.
- Transmission mechanism, Power. W. Vutz. 2,421,044; May 27.
- Transmission network, Wave. A. G. Fox. 2,432,093; Dec. 9.
- Transmission network, Wave. W. P. Mason. 2,421,033; May 27.
- Transmission of signals, Method and apparatus for the. H. de France. 2,414,453; Jan. 21.
- Transmission operating mechanism. H. Baade. 2,426,722; Sept. 2.
- Transmission, Planetary. R. S. Taylor. 2,417,957; Mar. 25.
- Transmission, Rotary variable speed hydraulic. R. S. Segsworth. 2,417,218; Mar. 11.
- Transmission, Semiautomatic. B. A. Swennes. 2,433,003; Dec. 23.
- Transmission, Shaping machine. G. Davenport. 2,415,125; Feb. 4.
- Transmission, Spur gear drive. H. N. Charles and C. F. Nossiter. 2,415,278; Feb. 4.
- Transmission, Synchromesh. R. S. Plexico. 2,428,892; Oct. 14.
- Transmission system. R. T. Cloud. 2,414,719; Jan. 21.
- Transmission system. R. H. Herrick. Re. 22,897; July 15.
- Transmission system. R. H. Herrick. 2,428,520; Oct. 7.
- Transmission system. E. Labin. 2,419,568; Apr. 29.
- Transmission system. M. Silver. 2,419,601; Apr. 29.
- Transmission system, Data. F. J. Singer. 2,428,389; Oct. 7.
- Transmission system, Facsimile. J. B. Brady. 2,429,921; Oct. 28.
- Transmission system for the remote control of gun mountings and other bodies having like movements. M. K. Ingoldby, J. H. Abbink-Spauk, and A. Spencer. 2,428,025; Sept. 30.
- Transmission system, Microwave. H. W. Kline. 2,418,472; Apr. 8.
- Transmission system, Microwave. D. H. Ring. 2,425,345; Aug. 12.
- Transmission system, Pulse multiplex. W. D. Houghton. 2,420,374; May 13.
- Transmission system, Radio pulse. D. S. Bond. 2,422,074; June 10.
- Transmission system, Switching in wave guide. W. D. Hersherberger. 2,415,242; Feb. 4.
- Transmission system, Two-way signal. R. J. Kircher. 2,432,100; Dec. 9.
- Transmission system, Wave. W. J. Albersheim. 2,418,809; Apr. 15.
- Transmission, Turbo planetary. F. E. Ellis, Jr. 2,431,318; Nov. 25.
- Transmission, Variable-speed. J. T. Janette. 2,423,323; July 1.
- Transmission, Variable-speed. R. D. Morse. 2,431,494; Nov. 25.
- Transmission, Variable-speed. B. N. Palm. 2,433,150; Dec. 23.
- Transmission, Variable speed gear. G. Pourtier. 2,432,442; Dec. 9.
- Transmission, Variable speed power. W. P. Norton. 2,419,850; Apr. 29.
- Transmission, Vehicle speed governed belt. E. F. Salisbury. 2,420,100; May 6.
- Transmit-receive switch. N. E. Lindenblad. 2,416,105; Feb. 18.
- Transmitter adjusting system. A. Preisman. 2,418,139; Apr. 1.
- Transmitter, Call. H. W. Goff. 2,416,688; Mar. 4.
- Transmitter, Call. D. B. Parkinson. 2,416,713; Mar. 4.
- Transmitter control circuit. L. Dubin. 2,424,972; Aug. 5.
- Transmitter errors, Correction of selsyn. J. F. Manildi. 2,432,029; Dec. 2.
- Transmitter for masks, Speech. C. T. Morrow. 2,416,693; Mar. 4.
- Transmitter, Frequency modulated. G. L. Usselman. 2,422,449; June 17.
- Transmitter, Glide path. D. F. Folland, J. O. Schock, and F. A. Jenks. 2,426,992; Sept. 9.
- Transmitter, Impulse. R. E. Hersey. 2,416,692; Mar. 4.
- Transmitter, Indicating keyboard telephone call. C. D. Richard. 2,433,398; Dec. 30.
- Transmitter or receiver, Linear motion. R. G. Jewell. 2,427,213; Sept. 9.
- Transmitter or receiver, Vibrational energy. F. Massa. 2,427,062; Sept. 9.
- Transmitter, Radio-frequency. D. L. Hings. 2,415,427; Feb. 11.
- Transmitter, Receiver. C. W. Swan. 2,419,799; Apr. 29.
- Transmitter system. E. Labin. 2,416,327; Feb. 25.
- Transmitter system, Printing telegraph station identification. J. C. Marshall, H. F. May, and C. S. Whitney. 2,419,581; Apr. 29.
- Transmitter, Telephone call. C. D. Richard. 2,416,715; Mar. 4.
- Transmitter, Variable impulse. C. C. Smith. 2,430,371; Nov. 4.
- Transmitting device, Electrical impulse. M. N. Yardeny and R. Bernas. 2,416,275; Feb. 18.
- Transmitting means and adjustment therefor, Motion. H. Honigman. 2,425,188; Aug. 5.
- Transmitting mechanism, Hydraulic power. G. W. Cornelius. 2,418,625; Apr. 8.
- Transmitting system, Pulse width modulation multichannel. D. D. Grieg. 2,424,977; Aug. 5.
- Transmitting tube with a concave secondary electron emitter, Television. H. B. Law. 2,414,881; Jan. 28.
- Transparent body, Reducing reflection of. M. U. Cohen and J. Steigman. 2,428,357; Oct. 7.
- Transplanter. N. G. Hershey. 2,422,832; June 24.
- Transplanter, Plant. M. B. Nelson. 2,428,499; Oct. 7.
- Transportation load and preparing the same. D. F. Hedges. 2,424,395; July 22.
- Transportation load and preparing the same. D. F. Hedges. 2,427,279; Sept. 9.
- Transportation vehicle. J. P. Fellabaum. 2,433,269; Dec. 23.
- Trap: See—
- Animal trap. Rodent trap.
  - Bullet trap. Sink trap.
  - Electric trap. Spent bullet trap.
  - Insect trap. Target trap.
  - Rail sander sand trap. Thermostatic steam trap.
- Trap. E. O. Carpenter. 2,432,723; Dec. 16.
- Trap. D. B. Hampton. 2,420,371; May 13.
- Trap cleaner. W. H. Scott. 2,430,739; Nov. 11.
- Trap controlled feed-water system for boilers. R. R. Waterman. 2,426,909; Sept. 2.
- Trap for drain pipes, Debris accumulating and separating. A. A. Pinto. 2,419,501; Apr. 22.
- Trap for drains, Back water. G. A. Hull. 2,431,399; Nov. 25.
- Trap for rail sanders, Sand. V. L. Frantz. 2,426,499; Aug. 26.
- Trap for shuttles, Thread. W. J. Gosselin. 2,426,449; Aug. 26.
- Trap having means for clearing the same of stoppage, Plumbing. W. J. Rohling. 2,422,801; June 24.
- Traps, Attachment for. A. E. Rector. 2,419,731; Apr. 29.
- Traveling device, Self-propelled. M. Caruso. 2,431,542; Nov. 25.
- Traveller-applying tool. R. B. Watts. 2,418,209; Apr. 1.
- Traversing and indexing device. H. T. Hollowell, Jr. 2,421,327; May 27.
- Traversing mechanism. R. M. Stream. 2,433,304; Dec. 23.
- Traversing mechanism for grinding machines. R. A. Johnson. 2,420,081; May 6.
- Tray. E. K. Madan. 2,424,475; July 22.
- Tray and the like. A. A. Robert. 2,425,952; Aug. 19.
- Tray, Annealing. P. S. Menough. 2,417,083; Mar. 11.
- Tray, Bottle-carrying. H. I. Richards. 2,428,386; Oct. 7.
- Tray, Cafeteria. C. G. Preis. 2,419,229; Apr. 22.
- Tray, Dental impression. B. O. Chartrand. 2,426,388; Aug. 26.
- Tray downcomer, Bubble. H. C. Glitsch. 2,420,075; May 6.
- Tray, Food. G. Roderig. 2,430,783; Nov. 11.
- Tray for ampule washing machines, Dripless. F. J. Cozzoli. 2,417,634; Mar. 18.
- Tray for armchairs, bridge tables, and the like, Attachable. P. Heller. 2,426,097; Aug. 19.
- Tray for capsules and the like, Packing. S. F. Jones and W. W. Plewes. 2,429,063; Oct. 14.
- Tray, Freezing. W. Dalton. 2,422,473; June 17.
- Tray grid, Extensible ice. D. H. Reeves. 2,416,119; Feb. 18.
- Tray, Ice. M. G. Shoemaker. 2,415,446; Feb. 11.
- Tray, Ice. C. H. Synnstedt. 2,415,451; Feb. 11.
- Tray, Ice. H. A. Toulmin. 2,432,597; Dec. 16.
- Tray, Ice-cube. C. A. Bauer. 2,418,008; Mar. 25.
- Tray, Ice cube. J. A. Gits. 2,433,210-11; Dec. 23.
- Tray, Ice cube. L. L. Mallard. 2,416,934; Mar. 4.
- Tray, Ice-cube. H. R. Tharp. 2,418,530; Apr. 8.
- Tray, Servicing. R. E. Flory. 2,430,049; Nov. 4.
- Tread material to tires, Applying new. T. P. Bacon, Jr. 2,422,652; June 24.
- Tread parts and other similar articles, Manufacturing. H. J. Kline and A. D. Knapp. 2,430,986; Nov. 18.
- Treating machine, Egg. W. G. Howard. 2,428,115; Sept. 30.
- Treating matter in a high-frequency electric field, Method and apparatus for. H. M. G. Grell and H. W. Richards. 2,415,025; Jan. 28.
- Treating surfaces of workpieces with abrasives. K. H. Barnes. 2,429,742; Oct. 28.
- Treatment of hydrocarbon materials. M. M. Holm. 2,414,259; Jan. 14.
- Treatment of oil sands, Chemical. F. W. Albaugh. 2,419,755; Apr. 29.
- Tree, Shoe. Z. Desrosiers. 2,417,589; Mar. 18.
- Tree, Shoe. E. C. Harvey. 2,417,109; Mar. 11.
- Trellis construction. E. Anderson. 2,418,151; Apr. 1.
- Trench-digging machine. J. H. MacKinnon. 2,417,313; Mar. 11.
- Trencher. V. S. Penote. 2,421,904; June 10.
- Trestle and bracket therefor. M. B. Moyer. 2,424,939; July 29.



- Trestle clamp. H. D. Strand. 2,423,735; July 8.  
Trestle leg assembly. H. B. Innes. 2,419,778; Apr. 29.  
Trestle, Safety. J. L. Mahaffey. 2,430,642; Nov. 11.  
Trestle, Work. I. Witken. 2,431,898; Dec. 2.  
Trial frame. C. A. Ellis. 2,420,032; May 6.  
Trialkyl benzene, Production of. V. N. Ipatieff and C. B. Linn. 2,425,096; Aug. 5.  
Triaryl-methane dyestuffs, Recovering. H. I. Stryker and R. O. Heuse. 2,422,445; June 17.  
Triazine derivatives. G. F. D'Alelio and J. W. Underwood. 2,418,336; Apr. 1.  
Tri-(beta-aminoethyl)-amine and ortho-hydroxy aromatic carbonyls, Condensation products of. L. A. Hamilton and C. J. Pedersen. 2,426,206; Aug. 26.  
Tricalcium phosphate for improving fluorine adsorptiveness, Treatment of. H. Adler. 2,417,462; Mar. 18.  
Tridecyl sulphates, Normal secondary. E. E. Dreger and J. Ross. 2,422,613; June 17.  
Trifluoromethyl derivatives of vinyl aromatic compounds. M. W. Renoll. 2,414,330; Jan. 14.  
Trigger circuit. D. D. Grieg. 2,416,304; Feb. 25.  
Trigger pull for small arms. J. F. McCaslin. 2,424,247; July 22.  
Trigger stop, Adjustable. J. J. Staller. 2,425,761; Aug. 19.  
Triglyceride refining process. E. S. Liebscher. 2,415,140; Feb. 4.  
Triglycol dichloride, Making. J. C. Patrick. 2,421,903; June 10.  
Trim ring for vehicle wheels, Ornamental. G. A. Lyon. 2,420,320; May 13.  
Trimmer. A. A. Schild. 2,418,049; Mar. 25.  
Trimmer, adjusters for sewing machines. N. Knaus. 2,427,609; Sept. 16.  
Trimmer, Bar. F. F. Pease. 2,413,995; Jan. 7.  
Trimmer, Electrode. P. M. Hall. 2,418,767; Apr. 8.  
Trimmer, Feather. R. C. Young. 2,419,184; Apr. 15.  
Trimmer, Rotary hedge. H. C. Dreischerf. 2,427,265; Sept. 9.  
Trimmer, Salvage. N. Mong. 2,428,430; Oct. 7.  
Trimming and butt welding the ends of metal strips, plates, and the like, Method of and apparatus for. H. O. Klinke. 2,422,787; June 24.  
Trimming apparatus. A. P. Kramer. 2,417,556; Mar. 18.  
Trimming machine. H. J. Hendra. 2,420,747; May 20.  
Trimming mechanism. V. J. Sigoda. 2,420,331; May 13.  
Triptaerythritol, Purification of. H. A. Poitras and J. E. Snow. 2,420,497; May 13.  
Triphenyl rosaniline spirit blue, Treating. H. N. Steuber. 2,429,081; Oct. 14.  
Triple-action press. E. K. Johansen. 2,429,062; Oct. 14.  
Triple wheel. P. E. Baker. 2,416,862; Mar. 4.  
Tripod. H. Schulz. 2,430,649; Nov. 11.  
Tripod head. C. J. Cardona. 2,429,803; Oct. 28.  
Tris and polyazo dyes from tetrazotized 0.0' dihydroxybenzidine. F. Straub, J. Brassel, and P. Pieth. 2,428,130; Sept. 30.  
Trisazo copper complexes. W. Wehrli. 2,427,539; Sept. 16.  
Tris-p-hydroxyphenyl ethylene and manufacture. R. S. Shelton and M. G. Van Campen, Jr. 2,430,891; Nov. 18.  
Trocar. J. B. Davis. 2,425,277; Aug. 5.  
Trolley conveyor of the bucket type. H. W. Hapman. 2,433,274; Dec. 23.  
Trolley pole head, Cushioned. E. A. Larsson. 2,426,150; Aug. 19.  
Trolley wire support and attachment therefor. S. S. Matthes. 2,426,151; Aug. 19.  
Trouble lamp switch. H. Sage. 2,418,905; Apr. 15.  
Trough, Floating skimmer. J. H. Hale. 2,427,102; Sept. 9.  
Trough type oil burner. E. Franck. 2,427,452; Sept. 16.  
Trouser hanger. G. B. Fetter. 2,429,712; Oct. 28.  
Trouser leg rain protector. E. W. Ballenger. 2,429,507; Oct. 21.  
Trousers. D. Verti. 2,427,637; Sept. 16.  
Trousers and such like, Supporting. E. A. Jackson. 2,418,772; Apr. 8.  
Trousers, Pajama. L. L. and A. Nahas. 2,430,406; Nov. 4.  
Trousers, Sleeping garment. B. H. Trinkel. 2,416,857; Mar. 4.  
Trousers stretcher. L. L. Selby. 2,423,521; July 8.  
Truck. C. J. Clasen. 2,427,194; Sept. 9.  
Truck. C. L. Heater and C. J. W. Clasen. 2,422,014; June 10.  
Truck. L. A. Lehrman. 2,422,201; June 17.  
Truck and unloading apparatus, Coal. J. W. Symonds. 2,422,268; June 17.  
Truck assembly hook device, Freight car. J. D. Thress. 2,425,706; Aug. 12.  
Truck, Car. R. B. Cottrell. 2,417,391; Mar. 11.  
Truck, Car. R. B. Cottrell. 2,420,229; May 6.  
Truck, Car. D. M. Light. 2,424,936; July 29.  
Truck, Car. B. J. Milleville. 2,419,188; Apr. 15.  
Truck, Car door hanging. W. Jenkins. 2,418,586; Apr. 8.  
Truck, Drum and barrel. A. M. Evans, C. W. Johnson, and O. H. Molle. 2,430,712; Nov. 11.  
Truck, Dump. J. N. Shimer. 2,424,670; July 29.  
Truck, Endless tread industrial. G. W. Way. 2,421,472; June 3.  
Truck, Floor. F. J. Shepard, Jr. 2,414,277; Jan. 14.  
Truck for assembling concrete planks and like articles. L. S. Belko. 2,433,754; Dec. 30.  
Truck for handling barrels, Hand. J. M. Donald. 2,419,314; Apr. 22.  
Truck for handling material, Industrial. G. L. Turner. 2,432,182; Dec. 9.  
Truck for semitrailers, Landing gear. L. F. Groover. 2,413,761; Jan. 7.  
Truck for transporting car wheels, Hand. H. L. Needham. 2,418,522; Apr. 8.  
Truck, Fork lift. G. L. Clapp. Re. 22,985; July 8.  
Truck, Furnace. J. M. Lee. 2,421,894; June 10.  
Truck, Hand. A. C. Avril. 2,432,368; Dec. 9.  
Truck, Hand. B. C. Boehl. 2,415,988; Feb. 18.  
Truck, Hand. J. Bovenzi. 2,429,797; Oct. 28.  
Truck, Hand. F. B. Graham. 2,417,644; Mar. 18.  
Truck, Hand. C. R. Gruber. 2,415,876; Feb. 18.  
Truck, Hand. N. Jensen. 2,417,553; Mar. 18.  
Truck, Hand. N. Jensen. 2,421,123; May 27.  
Truck hoist. H. Priester. 2,424,899; July 29.  
Truck, Household utility. J. I. Fatur. 2,417,918; Mar. 25.  
Truck, Industrial. J. Breslav. 2,418,693; Apr. 8.  
Truck, Industrial. E. J. Dunham. 2,414,192; Jan. 14.  
Truck, Industrial. P. R. Guerin and H. C. Musgrave. 2,432,411; Dec. 9.  
Truck, Industrial. W. F. Herold. 2,421,328; May 27.  
Truck, Industrial. D. M. Palm. 2,418,661; Aug. 8.  
Truck, Janitor's. H. J. Barrett. 2,424,644; July 29.  
Truck, Lift. H. J. Framhein. 2,417,394; Mar. 11.  
Truck, Lift. J. R. Henderson. 2,423,703; July 8.  
Truck, Lift. G. V. Johnson. 2,428,223; Sept. 30.  
Truck, Lift. G. Quayle. 2,424,417; July 22.  
Truck, Lifting. A. M. Barrett. 2,426,723; Sept. 2.  
Truck, Lifting. W. Van Den Bergh, O. H. Johnson, and C. Pastoor. 2,431,096; Nov. 18.  
Truck, Load pickup hand. H. A. Reinert. 2,415,655; Feb. 11.  
Truck, Milk can. J. I. Hope. 2,416,483; Feb. 25.  
Truck, Pallet. H. J. Framhein. 2,415,090; Feb. 4.  
Truck, Pallet. H. J. Framhein. 2,417,395-6; Mar. 11.  
Truck, Pallet. H. J. Framhein. 2,422,538; June 17.  
Truck, Railroad car. K. M. Hamilton. 2,423,313; July 1.  
Truck, Railway. G. F. Couch. 2,421,317; May 27.  
Truck, Railway car. C. D. Barrett and C. R. Whitehead. 2,417,674; Mar. 18.  
Truck, Railway car. R. J. Olander. 2,425,822; Aug. 19.  
Truck, Railway car. J. R. Sheesley. 2,424,001; July 15.  
Truck selection, Toll. O. Myers. 2,416,711; Mar. 4.  
Truck, Spring plankless car. R. B. Cottrell. 2,429,399; Oct. 21.  
Truck structure and assembling and disassembling the same, Railway. J. C. Travilla, Jr. 2,419,473; Apr. 22.  
Truck, Trundle. P. Cronrath. 2,430,107; Nov. 4.  
Truck, Two-wheel warehouse. F. Garbarino. 2,423,065; June 24.  
Truck, Wheel. R. L. Shuey. 2,420,843; May 20.  
Truck, Wheel lifting. B. F. Kelley. 2,429,723; Oct. 28.  
Truing mechanism for wood planers, Roll. E. Dechau. 2,432,863; Dec. 16.  
Truss. G. C. Weiter. 2,423,215; July 1.  
Truss fitting. A. W. Bird. 2,431,227; Nov. 18.  
Truss for hernia or rupture. J. F. Healy. 2,430,172; Nov. 4.  
Truss pad. F. J. Grubb. 2,422,894; June 24.  
Tryptophane from mixed amino acids, Separation of. M. Sahyun. 2,416,956; Mar. 4.  
Tub construction for two-tub spinner type clothes washing machines. G. W. Dunham. 2,421,252; May 27.  
Tub having a water inlet provided with a vacuum breaker. M. W. Bowen. 2,417,908; Mar. 25.  
Tub, Surgical. C. L. Graber. 2,426,303; Aug. 26.  
Tube: See—  
Cathode-ray tube. High-frequency resonator-tube.  
Collapsible tube. Magnatron vacuum tube.  
Dispensing tube. Mercury vapor tube.  
Dissector tube. Mounted flat element radio tube.  
Duplex welding tube. Multigrad electron tube.  
Electric discharge tube. Multiunit electron tube.  
Electric tube. Rectifier tube.  
Electron discharge tube. Secondary emissive shell resonator tube.  
Electron tube. Thermionic tube.  
External anode electron tube. Ultra high frequency deflection modulated tube.  
Fabric tube. Ultra high frequency tube.  
Finned tube. Valved, slidable discharge tube.  
Gaseous spark tube.  
Geiger-Mueller tube.  
Glow and slow acting tube.  
High-frequency electronic tube.  
Tube and auxiliary cartridge therefor, Grenade launching. C. R. Olsen. 2,432,539; Dec. 16.  
Tube and circuit therefor, Mercury. A. Vang. 2,432,051; Dec. 2.  
Tube and coupling assembly. J. R. Dorman. 2,415,472; Feb. 11.  
Tube and electrode for the same, Electron. W. W. Eitel and J. A. McCullough. 2,417,459; Mar. 18.  
Tube and making same, Electron. G. A. Becker. 2,417,461; Mar. 18.  
Tube and making same, Electron. G. A. Becker. 2,417,730; Mar. 18.  
Tube arrangement for frequency doubling. A. Alford. 2,424,959; Aug. 5.



- Tube beading tool. L. A. Smith. 2,427,026; Sept. 9.  
 Tube bending machine with pivoted sweep arm. R. F. Burke. 2,414,926; Jan. 28.  
 Tube clamp. E. P. Nicholls. 2,416,063; Feb. 18.  
 Tube clamp. L. H. Score and J. C. Haepf, Jr. 2,427,883; Sept. 23.  
 Tube clamp. R. R. Harrison. 2,425,153; Aug. 5.  
 Tube clamping apparatus. R. J. Millette. 2,432,435; Dec. 9.  
 Tube cleaner with flushing means, Fluid operated. D. E. Schott and D. H. Crepeau. 2,423,257; July 1.  
 Tube cleaning apparatus for boilers and the like. C. F. Lumb and F. G. W. Spears. 2,432,027; Dec. 2.  
 Tube coating, Cathode-ray. A. Steadman. 2,419,177; Apr. 15.  
 Tube coating, Electron. M. Orlove. 2,428,289; Sept. 30.  
 Tube connection. J. L. Bradfield. 2,432,224; Dec. 9.  
 Tube construction. J. F. Millward. 2,420,715; May 20.  
 Tube construction. C. M. Walker and J. R. Eisan. 2,433,410; Dec. 30.  
 Tube coupling. R. E. Herold. 2,420,778; May 20.  
 Tube cutting apparatus. R. M. Matson. 2,429,559; Oct. 21.  
 Tube drawing. A. J. Snively. 2,428,474; Oct. 7.  
 Tube end flaring tool. O. C. Helgeson. 2,415,882; Feb. 18.  
 Tube fitting. J. F. Stephens. 2,423,122; July 1.  
 Tube fitting, Locking. R. E. Herold. 2,428,077; Sept. 30.  
 Tube for color television. C. S. Szegho. 2,422,937; June 24.  
 Tube for generating oscillations, Cathode-ray. M. J. O. Strutt and A. van Der Ziel. 2,420,846; May 20.  
 Tube for ultrahigh frequencies, Electron discharge. F. D. Goodchild and W. H. Wolsey. 2,428,020; Sept. 30.  
 Tube for use in preparatory and spinning machines, False twist. J. Noguera. 2,430,944; Nov. 18.  
 Tube forming machine. R. Sonnenberg and I. L. Young. 2,426,714; Sept. 2.  
 Tube having condenser member therein, Electron. W. W. Eitel, J. A. McCullough, and G. Howes. 2,431,740; Dec. 2.  
 Tube having parallel focusing and beam defining plates, Beam deflection. N. H. Green and W. H. Warren. 2,415,481; Feb. 11.  
 Tube heating apparatus, Glass. A. Greiner. 2,427,722; Sept. 23.  
 Tube holding block. R. L. Hayman. 2,425,935; Aug. 19.  
 Tube of the resonator type, Ultra high frequency. H. J. McCarthy. 2,423,426; July 1.  
 Tube packing, Condenser. S. Pennella. 2,420,721; May 20.  
 Tube structure, High-frequency. D. L. Snow, E. L. Ginzton, and D. R. Hamilton. 2,429,243; Oct. 21.  
 Tube structure, High-frequency. S. F. Varian and D. R. Hamilton. 2,414,496; Jan. 21.  
 Tube structure, Tunable high-frequency electron. W. W. Hansen. 2,425,738; Aug. 19.  
 Tube system and apparatus, Luminescent. J. H. Bridges. 2,413,681; Jan. 7.  
 Tube system, Conductance-responsive electron. F. B. MacLaren, Jr., and F. H. Shepard, Jr. 2,422,574; June 17.  
 Tube system, Luminescent. C. P. Boucher. 2,428,646; Oct. 7.  
 Tube type of relaxation oscillator system, Gas-filled. A. H. Dickinson. 2,428,617; Oct. 7.  
 Tube with inclined target, Cathode-ray. G. R. Kilgore. 2,420,176; May 6.  
 Tube with magnetic compensating means, Cathode-ray. C. L. Richards. 2,425,125; Aug. 5.  
 Tube with revolving magnet and adjustable sleeve, Cathode-ray. W. J. Poch. 2,431,077; Nov. 18.  
 Tube with rotary deflecting plates, Television cathode-ray. G. Sabol. 2,421,086; May 27.  
 Tube with shielded deflecting plates, Cathode-ray. G. Liebmann. 2,425,682; Aug. 12.  
 Tube with tunable coaxial resonator. J. J. Guarrera. 2,429,811; Oct. 28.  
 Tubes, Electric discharge ultra high frequency generating and switching. A. Vang. 2,423,858; July 15.  
 Tubes for ultra high frequencies, Electron discharge. F. D. Goodchild and W. H. Wolsey. 2,426,198; Aug. 26.  
 Tubes for ultra high frequencies, Electron discharge. J. H. O. Harries. 2,415,349; Feb. 4.  
 Tubes in heat exchangers, Replacing. H. G. Moore. 2,429,888; Oct. 28.  
 Tubes, Making collapsible. E. Stather-Dunn and F. M. Menheneert. 2,416,962; Mar. 4.  
 Tubes, Making collapsible. G. W. Temple. 2,422,052; June 10.  
 Tubes, Making tapered. N. Michelman. 2,418,312; Apr. 1.  
 Tubes, Manufacture of collapsible. F. W. Seybold. 2,426,060; Aug. 19.  
 Tubes, Manufacture of gaseous discharge. F. G. Lopez. 2,415,895; Feb. 18.  
 Tubes, Manufacture of Pitot-static. J. Bernhardt. 2,428,542; Oct. 7.  
 Tubes, Manufacturing photo-electric. R. B. Janes. 2,431,401; Nov. 25.  
 Tubes, Mercury vapor. R. C. Mason. 2,427,732; Sept. 23.  
 Tubes, Method and apparatus for forming flexible. N. R. Henry. 2,418,974; Apr. 15.  
 Tubes, Method of and apparatus for winding. R. E. Stoltz. 2,416,416; Feb. 25.  
 Tubes, Tapering metal. S. Findlater. 2,432,566; Dec. 16.  
 Tubes, Turning fabric. W. A. Plummer, Jr. 2,428,943; Oct. 14.  
 Tubing, Collapsible. A. E. Chernack. 2,417,676; Mar. 18.  
 Tubing connection, Flexible. W. H. Brown. 2,431,633; Nov. 25.  
 Tubing, dental brochures, and the like, Hypodermic. S. J. Everett. 2,428,518; Oct. 7.  
 Tubing, Extrusion of. C. E. Slaughter. 2,423,260; July 1.  
 Tubing, Method and machine for forming corrugated. P. and J. Duenas. 2,419,678; Apr. 29.  
 Tubing, Progressively welding axially moving. W. Kopeck. 2,422,305; June 17.  
 Tubular blanks, Reduction of. A. Westin. 2,419,864; Apr. 29.  
 Tubular bodies such as radium seeds. F. C. Wappler. 2,429,438; Oct. 21.  
 Tubular connection. H. D. Stecher and J. L. Murray. 2,432,592; Dec. 16.  
 Tubular detachable filter. C. B. Dalzell. 2,418,247; Apr. 1.  
 Tubular fabric, Method and apparatus for producing. M. A. Goldman. 2,422,234; June 17.  
 Tubular latch. E. F. Sutphin. 2,415,264; Feb. 4.  
 Tubular structural elements. J. Couelle. 2,413,690; Jan. 7.  
 Tufting device. S. P. Parker. 2,422,125-6; June 10.  
 Tufting machine. A. E. Charles. 2,432,469; Dec. 9.  
 Tufting machine. J. K. McCutchen. 2,423,605-6; July 8.  
 Tumbling mill. G. M. Howard. 2,420,748; May 20.  
 Tumbling mill. P. J. Potter. 2,424,955; July 29.  
 Tumbling mill and method of tumbling. W. L. Keefer. 2,422,786; June 24.  
 Tunable magnetron. E. D. McArthur and R. J. Bondley. 2,421,636; June 3.  
 Tunable system, Tracking. A. Bloch. 2,425,454; Aug. 12.  
 Tunable ultra high frequency apparatus. L. R. Malling. 2,415,141; Feb. 4.  
 Tuner. J. M. Dodds and J. H. Ludlow. 2,420,657; May 20.  
 Tuner construction. I. N. Vorie. 2,422,995; June 24.  
 Tuner for cavity resonators, Wide range. R. S. Julian. 2,418,839; Apr. 15.  
 Tuner for multiresonator. H. D. Hagstrum. 2,418,469; Apr. 8.  
 Tuners for multiband radio receivers, Push button. B. Roberts. 2,419,968; May 6.  
 Tungsten compounds, Producing. W. C. Lilliendahl. 2,414,601; Jan. 21.  
 Tuning and coupling means for high frequency systems. A. M. Gurewitsch. 2,428,622; Oct. 7.  
 Tuning device. W. E. Bradley, R. G. Clapp, and I. L. Stephan. 2,431,103; Nov. 18.  
 Tuning device comprising at least two tuning circuits having an unequal frequency range. T. A. Spoor. 2,427,331; Sept. 9.  
 Tuning device, High-frequency. G. C. Larson. 2,413,836; Jan. 7.  
 Tuning fork construction. G. W. Rusler. 2,433,160; Dec. 23.  
 Tuning, Inductive. R. B. Beetham. 2,423,824; July 15.  
 Tuning means for cavity resonators. D. G. Clifford. 2,419,121; Apr. 15.  
 Tuning means for magnetrons. J. P. Quitter. 2,429,295; Oct. 21.  
 Tuning structure, High-frequency. M. V. Weiss. 2,422,454; June 17.  
 Tunnel and tunnel ventilation, Traffic. O. Singstad and H. G. Cruthers. 2,427,075; Sept. 9.  
 Tunnel lining and forming the same. K. C. Bellows. 2,429,045; Oct. 14.  
 Tunnels, Lining. A. D. G. Wilson. 2,419,329; Apr. 22.  
 Turban. B. Podolsky. 2,414,665; Jan. 21.  
 Turbine. R. B. Smith and F. O. Hennig. 2,428,999; Oct. 14.  
 Turbine. J. B. Vernon. 2,425,904; Aug. 19.  
 Turbine blade. G. K. W. Boestad. 2,429,215; Oct. 21.  
 Turbine blade. A. Gaudenzi. 2,431,664; Nov. 25.  
 Turbine blade. J. E. Johansson. 2,421,890; June 10.  
 Turbine blade locking device. C. R. Soderberg. 2,421,855; June 10.  
 Turbine blade mounting. C. R. Soderberg. 2,414,278; Jan. 14.  
 Turbine blading, Making cast. F. T. Hague. 2,422,193; June 17.  
 Turbine, Combustion gas and waste heat steam. R. H. H. Barr. 2,428,136; Sept. 30.  
 Turbine construction. H. A. Altorfer and J. A. Johnson. 2,414,788; Jan. 28.  
 Turbine construction. V. Cronstedt. 2,425,177; Aug. 5.  
 Turbine construction. V. Cronstedt and W. A. Ledwith. 2,421,833; June 10.  
 Turbine construction. C. R. Soderberg. 2,417,845; Mar. 25.  
 Turbine cycle, Gas. R. B. Smith. 2,418,911; Apr. 15.  
 Turbine, Double rotation elastic fluid. R. O. J. Möller. 2,430,183; Nov. 4.  
 Turbine for aircraft. W. A. Ledwith. 2,415,104; Feb. 4.  
 Turbine for fluid transmission, Differential. A. J. Weatherhead, Jr. 2,417,224; Mar. 11.  
 Turbine, Gas. N. Burgess. 2,429,990; Nov. 4.  
 Turbine, Gas. R. K. McClintock. 2,419,689; Apr. 29.



- Turbine, Gas. D. F. Warner. 2,427,244; Sept. 9.  
 Turbine, Hydraulic. G. A. Biggs. 2,420,853; May 20.  
 Turbine mounting. C. E. Kenney and J. R. Hagemann. 2,429,936; Oct. 28.  
 Turbine, Multistage radial flow. W. B. Jutte. 2,417,600; Mar. 18.  
 Turbine plant, Compound internal-combustion. F. A. M. Heppner. 2,426,098; Aug. 19.  
 Turbine plant, Internal-combustion. K. Baumann. 2,418,801; Apr. 8.  
 Turbine powerplant, Internal-combustion. D. D. Strelid. 2,432,359; Dec. 9.  
 Turbine power plant with automatic air supply control, Hot air. A. Lysholm. 2,421,387; June 3.  
 Turbine, Radial flow. R. O. J. Möller. 2,429,365; Oct. 21.  
 Turbine rotor, Balancing a. V. Cronstedt. 2,421,832; June 10.  
 Turbine seal, Hydraulic. F. Nagler. 2,416,268; Feb. 18.  
 Turbine type dual hydraulic coupling. H. Sinclair. 2,419,919; Apr. 29.  
 Turbine type hydraulic coupling. G. C. Fields. 2,420,071; May 6.  
 Turbine type jet propulsion. A. G. Forsyth. 2,423,183; July 1.  
 Turbine wheel. S. C. Watson. 2,428,728; Oct. 7.  
 Turbo blower. W. C. Elze and A. J. Turpin. 2,414,366; Jan. 14.  
 Turbogenerator cooling. R. A. Baudry. 2,427,702; Sept. 23.  
 Turbosupercharger. P. Heftler. 2,428,708; Oct. 7.  
 Turnbuckle, Telescoping. A. K. Espenas. 2,420,364; May 13.  
 Turning and folding meat roast rack. E. Bocchino. 2,421,922; June 10.  
 Turning attachment for sewing machines, Belt. V. J. and J. Sligoda. 2,426,285; Aug. 26.  
 Turret locking mechanism. C. E. Miller. 2,417,605; Mar. 18.  
 Turret tool block. S. L. Casella. 2,433,026; Dec. 23.  
 Twist drill. G. F. Taylor. 2,422,994; June 24.  
 Twisting and winding apparatus for transfer tail. W. J. Elvin and E. R. Stahl. 2,432,564; Dec. 16.  
 2-acetoxy-butanal from wood distillate, Distillation of. A. A. Reiter and F. L. Beman. 2,428,760; Oct. 7.  
 2-acetoxy-4-methyl-1,3-pentadiene. B. H. Gwynn and E. F. Degering. 2,418,708; Apr. 8.  
 2-alkoxymethylmercapto-thiazoles and thiazolines and preparing the same. W. J. Burke. 2,418,499; Apr. 8.  
 2-(aminobenzenesulfonamido)-4-hydroxy-5,6,7,8-tetrahydrohydroquinazoline. J. H. Hunter and A. H. Nathan. 2,425,326; Aug. 12.  
 2-amino-5-alkenyl-1,3,4-thiadiazoles and making the same. L. P. Kyrides, P. B. Zienty, and R. W. Stephenson. 2,420,434; May 13.  
 2-amino-5-substituted 1,3,4-thiadiazole, Making. G. W. Steahly. 2,422,050; June 10.  
 2-aminopyrimidine, Production of. E. Kuh and T. W. Clapper. 2,425,248; Aug. 5.  
 2-8-acetanilidovinyl benzoxazoles and preparation, Substituted. A. W. Anish. 2,429,179; Oct. 14.  
 Two-cycle engine. E. P. R. Viel. 2,420,454; May 13.  
 Two cycle engine, crankcase compression, Valve piston. R. J. Fisher. 2,431,859; Dec. 2.  
 Two-cycle gas engine. H. A. Gehres. 2,433,111; Dec. 23.  
 Two-cycle gas engine. F. M. Jones. 2,417,253; Mar. 11.  
 Two-cycle internal-combustion engine. M. Mallory. 2,425,157; Aug. 5.  
 2-ethyl-2-butyl propanediol-1,3. S. W. Tribit. 2,413,803; Jan. 7.  
 2,5-dichlorodioxane, Preparation of. R. R. Umhoefer. 2,414,989; Jan. 28.  
 2,5-dichlorodioxane, Preparing. W. M. Smedley. 2,414,982; Jan. 28.  
 2,4-diaminopyrimidines, Preparation of. J. P. English and J. W. Clapp. 2,416,617; Feb. 25.  
 2,4-diaryl-pyrrole compounds and producing same, Substituted. E. P. Goodings and M. A. T. Rogers. 2,422,667; June 24.  
 2,4-dinitrophenyl thiocyanate as a fungicide. A. L. Flenner and R. A. Kaberg. 2,433,106; Dec. 23.  
 2,4,6-collidine from nitrogen base mixtures, Separation of. K. H. Engel. 2,426,442; Aug. 26.  
 2-hydroxy-benzophenones and making same, Nuclear substituted. T. Houtman, Jr. 2,419,553; Apr. 29.  
 2-hydroxy-3-chlorotetrahydropyran. P. A. Hawkins and N. Bennett. 2,432,758; Dec. 16.  
 2-hydroxy-3,5-x-trichloro-diphenyl, Ethers of. G. H. Coleman and W. D. Schroeder. 2,421,924; June 10.  
 2-keto gulonic acid and its salts, Preparation of. B. E. Gray. 2,421,611-12; June 3.  
 2-methoxy-6-chloro-9-[4'-(diisopropylamino)-butylamino]-acridine. H. A. Shonle and J. W. Corse. 2,424,062; July 15.  
 2-methoxy-6-chloro-9-[2'-hydroxy-3'-(ethyl-n-butylamino)-propylamino]-acridine. H. A. Shonle and J. W. Corse. 2,424,063; July 15.  
 2-o-carbalkoxy alkyl-3-oxo-4-carbalkoxy tetrahydrothiophene. M. B. and E. E. Moore. 2,424,007; July 15.  
 Two-motion cam controlled automatic telephone switch. G. T. Baker. 2,433,256; Dec. 23.  
 2-(p-amino-benzenesulfonamido)-4-methyl-5-hydroxyethyl thiazole. G. Newbery. 2,433,388; Dec. 30.  
 Two-piece jet thrust motor. H. Rutishauser, R. C. Brumfield, and F. Zwicky. 2,426,526; Aug. 26.  
 Two-position switch. M. L. Glogau. 2,423,381; July 1.  
 2,6-dimethyl-heptanoic acid, Manufacture of. L. I. Smith and G. F. Rouault. 2,417,220; Mar. 11.  
 2,6-nitro chlor toluene, Bromination of. F. Sievenpiper and L. H. Flett. 2,429,493; Oct. 21.  
 Two stage hammer mill. H. M. Johnston. 2,424,316; July 22.  
 Two-stage varivolume hand pump. D. Grudin. 2,430,872; Nov. 18.  
 Two-stroke cycle internal-combustion engine. W. P. Mansfield and J. White. 2,431,266; Nov. 18.  
 Two-stroke internal combustion engine. C. S. Johansen and M. R. G. Teisen. 2,417,649; Mar. 18.  
 2-substituted furan-3, 4-dicarboxylic acids, their corresponding saturated analogues and derivatives thereof. K. Hofmann. 2,432,016; Dec. 2.  
 2-Sulfanilamidopyrazine. R. C. Ellingson. 2,420,703; May 20.  
 2-thiocyanomethyl-5-hydroxy-1,4-pyrone and preparing it. G. H. Morey. 2,422,740; June 24.  
 2,3-dimethylbutadiene-1,3, Production of. J. A. Otto and A. E. Anderson. 2,419,030; Apr. 15.  
 2,2-bis(p-chlorophenyl)-1,1,1-trichloroethane and sulfur insecticide. W. Durham. 2,414,193; Jan. 14.  
 2,2-dialkyl-1,3-propanediamines, Preparation of. M. Senkus. 2,418,237; Apr. 1.  
 2,2,4-trichlorobutyramide. O. W. Bauer and J. W. Teter. 2,429,791; Oct. 28.  
 2,2,3-trimethylbutane, Manufacture of. L. Schmerling. 2,429,373; Oct. 21.  
 Two-unit welding. W. C. Vizard. 2,414,249; Jan. 14.  
 Two-way overrunning clutch. H. J. Blair. 2,427,120; Sept. 9.  
 Tying machine. J. L. Pojman. 2,420,498; May 13.  
 Type assembly. B. W. Schabot. 2,426,156; Aug. 19.  
 Type assembly for laundry marking machines. A. L. Faust. 2,428,560; Oct. 7.  
 Type holder. W. R. King. 2,424,397; July 22.  
 Type packer and valve therefor, Circulating. H. Allen. 2,418,493; Apr. 8.  
 Type slug end cutter. C. W. and T. C. Curle and R. F. Newton. 2,426,727; Sept. 2.  
 Typewriter clamp means. J. M. Roberts. 2,416,120; Feb. 18.  
 Typewriter construction, Folding. G. I. Mills. 2,418,785; Apr. 8.  
 Typewriter type-bar guide. R. F. Gordon. 2,432,410; Dec. 9.  
 Typewriter word counter. H. Chaskin. 2,421,681-3; June 3.  
 Typewriting machine frame. L. C. Myers. 2,418,043; Mar. 25.  
 Typewriting machine, Stenographic. H. B. Smith. 2,419,737; Apr. 29.  
 Tyre: See—Tire.  
 Tyre for vehicles. E. C. Woods. 2,432,847; Dec. 16.  
 Ultra high frequency amplifying system. C. W. Hansell. 2,419,135; Apr. 15.  
 Ultra high frequency apparatus. L. W. Haeseler and S. H. Watson. 2,421,784; June 10.  
 Ultra high frequency communication system. B. G. Lake and W. C. Eddy. 2,423,836; July 15.  
 Ultra high frequency conversion apparatus. G. W. Fyler. 2,416,577; Feb. 25.  
 Ultra high frequency coupling circuit. D. R. Tashjian. 2,422,601; June 17.  
 Ultra high frequency deflection modulated tube. E. J. Hefele. 2,419,895; Apr. 29.  
 Ultra high frequency device. A. L. Samuel. 2,415,850; Feb. 18.  
 Ultra high frequency device of the cavity resonator type. F. M. Bailey. 2,421,591; June 3.  
 Ultra high frequency discriminator. R. T. Benware. 2,413,939; Jan. 7.  
 Ultra high frequency electron discharge device circuit. C. A. Rosencrans. 2,419,793; Apr. 29.  
 Ultra-high frequency electronic device. A. E. Bowen. 2,428,779-80; Oct. 14.  
 Ultra high frequency energy coupling. J. F. Zaleski. 2,433,011; Dec. 23.  
 Ultra high frequency ignition device. N. I. Korman. 2,421,790; June 10.  
 Ultra high frequency mixer circuit. W. A. Montgomery. 2,433,386; Dec. 30.  
 Ultra high frequency oscillation generator. B. Cassen. 2,428,554; Oct. 7.  
 Ultra high frequency receiver. W. W. Mumford. 2,433,387; Dec. 30.  
 Ultra high frequency space resonant system. E. D. McArthur. 2,421,635; June 3.  
 Ultra high frequency switch. O. E. Dow. 2,426,186; Aug. 26.  
 Ultra high frequency tube. J. D. Le Van. 2,418,844; Apr. 15.  
 Ultra high frequency wave meter. G. R. Frantz and A. F. Pomeroy. 2,419,208; Apr. 22.  
 Ultrashort wave detector. M. J. O. Strutt and A. Van Der Ziel. 2,414,279; Jan. 14.  
 Umbrella, Combination clothes rack. J. E. Snyder. 2,433,793; Dec. 30.



- Umbrella frame. W. S. Evans. 2,430,330; Nov. 4.  
 Umbrella holder. R. E. Northcutt. 2,426,113; Aug. 19.  
 Umbrella or protector, Emergency. C. F. Bisbing. 2,430,042; Nov. 4.  
 Uncoiler. E. R. Backus. 2,427,248; Sept. 9.  
 Undercarriages for aircraft, Retractable. J. Martin. 2,422,577; June 17.  
 Undergarment. M. M. Lloyd. 2,416,108; Feb. 18.  
 Undergarment. W. Murphy. 2,420,089; May 6.  
 Undergarment, Combination. G. Oliensis. 2,429,767; Oct. 28.  
 Undergarment, Lady's. H. Dorfman. 2,417,473; Mar. 18.  
 Undershirts, Making athletic or. F. J. Brisker. 2,417,628; Mar. 18.  
 Underwater foundation and erecting the same. M. B. Willey. 2,429,952; Oct. 28.  
 Unidirectional voltage generator. J. A. Buckbee. 2,424,214; July 22.  
 Uniform Cap. H. and I. Libshutz. 2,424,279; July 22.  
 Union for pipe ends, Quick breaking. J. Prata. 2,423,726; July 8.  
 Unit for battery filter plugs, Resistance. W. J. Rady and L. A. Rice. 2,422,925; June 24.  
 Unit for gill-drawing frames. J. Monahan. 2,431,412; Nov. 25.  
 Unit for hydraulic systems, Compensator-accumulator. A. E. Kremiller. 2,417,256; Mar. 11.  
 Unit for rotary storage bins, Drawer. A. W. Mueller. 2,429,290; Oct. 21.  
 Unit for switches, High side cutout. B. E. Shaw. 2,417,219; Mar. 11.  
 Unit system for applying brakes, Power. E. A. Rockwell. 2,418,666; Apr. 8.  
 Unitary isomerization-alkylation system. E. L. d'Ouville. 2,415,733; Feb. 11.  
 Unitary multiple connections, Manufacturing. E. S. McLarn. 2,433,384; Dec. 30.  
 Universal conduit joint. E. Orshansky, Jr. 2,424,897; July 29.  
 Universal drill support. W. J. Crump. 2,414,637; Jan. 21.  
 Universal fluid joint. T. C. Hill. 2,417,491; Mar. 18.  
 Universal joint. G. E. Dunn. 2,427,449; Sept. 16.  
 Universal joint. E. B. Gibson, Jr., and D. W. Blakeman. 2,421,691; June 3.  
 Universal joint. C. M. Johnson. 2,425,809; Aug. 19.  
 Universal joint. E. E. Smith. 2,433,791; Dec. 30.  
 Universal joint. R. Sucek. 2,427,237; Sept. 9.  
 Universal joint. R. Sucek. 2,432,216; Dec. 9.  
 Universal joint. A. Venditty. 2,421,134; May 27.  
 Unloader, Grain. H. L. Shugart. 2,417,020; Mar. 4.  
 Unloader mechanism, Compressor. W. H. Wineman. 2,420,159; May 6.  
 Unloader, Tray. P. E. Fischer. 2,431,320; Nov. 25.  
 Unloading and loading apparatus. E. B. McCarty. 2,417,700; Mar. 18.  
 Unloading apparatus. G. L. Cherry and C. C. Veale. 2,425,362; Aug. 12.  
 Unloading device, Oil drum. P. J. Cargile. 2,414,447; Jan. 21.  
 Unloading device, Package. R. M. Freeman. 2,426,993; Sept. 9.  
 Unloading valve. J. M. Roth. 2,429,489; Oct. 21.  
 Unsaturated esters and polymers thereof. F. Strain. 2,414,400; Jan. 14.  
 Unsaturated hydrocarbons, Recovery of. W. A. Schulze and J. C. Hillyer. 2,416,647; Feb. 25.  
 Unsaturated materials, Solvent extraction of. J. C. D. Oosterhout and T. C. Roddy, Jr. 2,419,499; Apr. 22.  
 Unsaturated nitriles, Production of. I. L. Wolk. 2,433,182; Dec. 23.  
 Unwinding and counting apparatus. R. G. Werth. 2,427,079; Sept. 9.  
 Urea-formaldehyde resins, Producing. P. S. Hewett. 2,428,752; Oct. 7.  
 Ureido acid esters and making the same. R. Auchincloss and F. Linsker. 2,421,233; May 27.  
 Ureylene carbocyclic compounds and their preparation. R. C. Clapp and R. O. Roblin, Jr. 2,418,925; Apr. 15.  
 Utensil, Baking. G. A. Ellestad. 2,427,451; Sept. 16.  
 Utensil, Cooking. C. Van Ness. 2,429,282; Oct. 21.  
 Utensil, Fluid heated cooking. A. V. Nielsen. 2,431,193; Nov. 18.  
 Utensil, Food basting. D. M. Hargen. 2,432,073; Dec. 2.  
 Utensil, Heating. R. S. Ely. 2,431,998; Dec. 2.  
 Utensils, Fruit. A. Catellier. 2,427,123; Sept. 9.  
 Utility rack. R. E. Stowell. 2,433,247; Dec. 23.  
 Utility rack. G. Vollmer. 2,430,624; Nov. 11.  
 V-belt. F. A. Daniels. 2,430,328; Nov. 4.  
 V-belt having metallic neutral axis. E. L. Luaces and M. A. Crosby. 2,430,024; Nov. 4.  
 V-block, Adjustable. P. Valish. 2,416,782; Mar. 4.  
 Vaccine and antigen and producing the same. S. O. Levinson and F. Oppenheimer. 2,421,382; June 3.  
 Vacuum apparatus for investing patterns. J. R. Vest. 2,416,506; Feb. 25.  
 Vacuum chamber. A. H. Heineman. 2,415,425; Feb. 11.  
 Vacuum car heater. D. E. Catlin. 2,431,918; Dec. 2.  
 Vacuum cleaner. G. E. Lofgren. 2,418,130; Apr. 1.  
 Vacuum cleaner. A. W. Seyfried. 2,422,860; June 24.  
 Vacuum cleaner agitator roller, Direct drive. E. A. Basinger. 2,421,235; May 27.  
 Vacuum cooler and cleaning the same. A. H. Heineman. 2,420,396; May 13.  
 Vacuum distillation, Method of and apparatus for high. J. R. Bowman. 2,415,411; Feb. 11.  
 Vacuum distillation with circulation of gas. O. Denys. 2,427,718; Sept. 23.  
 Vacuum producing massage device. C. N. Debaugh. 2,433,203; Dec. 23.  
 Vacuum tube voltmeter, Differential. W. M. Smith. 2,432,826; Dec. 16.  
 Vacuum tube with coupling-feed-back-electrode arrangement. P. G. Chevigny. 2,423,819; July 8.  
 Vacuum tubes, Forming. C. E. Buchwald and S. K. Shull. 2,415,412; Feb. 11.  
 Vacuumizing containers, Method and apparatus for. S. Birkland. 2,415,409; Feb. 11.  
 Valet, Man's. M. O. and F. S. Lapeyre. 2,415,642; Feb. 11.  
 Valise, Collapsible. L. Vallières. 2,416,783; Mar. 4.  
 Value device in a sighting instrument, Median. E. F. Flint. 2,422,348; June 17.  
 Values from vegetable tanned leather, Recovering. J. Michelman. 2,418,655; Apr. 8.  
 Valve: See—  
     Adjustable flux valve. Flux valve.  
     Aeroelectric valve. Gas valve.  
     Air control valve. High-pressure diaphragm relief valve.  
     Air valve. Hydraulic relief valve.  
     Anti-siphon valve. Hydraulic valve.  
     Automatic choke valve. Liquid dispensing valve.  
     Automatic closing valve. Lubricant measuring valve.  
     Automatic lubricated valve. Mixing valve.  
     Automatic pressure operated hydraulic piston type admission and exhaust valve. Nonlocking brake valve.  
     Automatic shut off valve. Plastic valve.  
     Balancing valve. Plug valve.  
     Bourdon tube variable resistance valve. Plural way valve.  
     Brake valve. Pressure actuated valve.  
     Carburetor valve. Pressure and temperature relief valve.  
     Check valve. Pressure control valve.  
     Compressor valve. Pressure indicating and releasing valve.  
     Concentric core flux valve. Pressure operated drain valve.  
     Control valve. Pressure regulating valve.  
     Distributor valve. Pressure relief valve.  
     Diverter valve. Pump valve.  
     Electromagnetic reset valve. Radiator sealing valve.  
     Emergency valve. Relief valve.  
     Equalizing valve. Rotary type multiport valve.  
     Float valve. Rotary valve.  
     Fluid control valve. Safety gravity controlled valve.  
     Fluid controlling valve. Safety valve.  
     Fluid coupling automatic control valve. Selector valve.  
     Fluid pressure control valve. Self-locking gas valve.  
     Fluid-pressure controlled valve. Speed control valve.  
     Fluid-pressure operated valve. Thermally controlled mixing valve.  
     Fluid valve. Thermostatic surge valve.  
     Flush tank valve. Three-way valve.  
     Flush valve. Throttling and unloading valve.  
     Flushing tank inlet valve. Torpedo control valve.  
     Valve. A. C. Arbogast. 2,418,447-8; Apr. 8.  
     Valve. H. W. Boteler. 2,429,602; Oct. 28.  
     Valve. C. A. Brown. 2,427,439; Sept. 16.  
     Valve. C. A. Brown. 2,433,732; Dec. 30.  
     Valve. R. R. Butts. 2,427,441; Sept. 16.  
     Valve. A. G. Carpenter. 2,416,085; Feb. 18.  
     Valve. R. S. Colley. 2,433,092; Dec. 23.  
     Valve. J. R. Dunnahoo. 2,420,589; May 13.  
     Valve. W. A. Fletcher. 2,413,757; Jan. 7.  
     Valve. E. Gross. 2,416,385; Feb. 25.  
     Valve. L. S. Hamer. 2,413,869; Jan. 7.  
     Valve. D. G. Lorraine. 2,414,749; Jan. 21.  
     Valve. D. G. Lorraine. 2,420,785; May 20.  
     Valve. O. H. Ludeman. 2,414,751; Jan. 21.  
     Valve. R. P. McCulloch and J. L. Ryde. 2,421,346; May 27.  
     Valve. W. H. McCulloch. 2,432,536; Dec. 16.  
     Valve. F. L. Pars. 2,424,328; July 22.  
     Valve. H. Rutishauser. 2,417,270; Mar. 11.  
     Valve. H. Rutishauser. 2,432,213; Dec. 9.  
     Valve. A. Seligmann and K. W. Schartel. 2,420,056; May 6.  
     Valve. H. E. Sheets. 2,417,994; Mar. 25.  
     Valve. P. Spence. 2,425,284; Aug. 5.  
     Valve. P. Spence. 2,431,283; Nov. 18.  
     Valve. L. W. Stettner and K. F. Heinemann. 2,415,660; Feb. 11.  
     Valve. G. N. Strike. 2,431,593; Nov. 25.  
     Valve. J. B. Van Der Werff. 2,431,437; Nov. 25.  
     Valve. C. Voorhies. 2,415,774; Feb. 11.  
     Valve. I. M. White. 2,416,787; Mar. 4.  
     Valve. W. G. Wilson. 2,420,849; May 20.  
     Valve. M. O. Young. 2,429,658; Oct. 28.  
     Valve actuating means. D. G. Fawkes. 2,414,032; Jan. 7.  
     Valve actuating mechanism. C. R. Crane, II, and A. Mueller. 2,417,353; Mar. 11.



- Valve actuator. I. N. Reed and J. K. Mayer. 2,432,172; Dec. 9.
- Valve actuator. C. A. Stine. 2,429,779; Oct. 28.
- Valve and strainer unit. M. Vartanian. 2,429,435; Oct. 21.
- Valve and switch unit. A. K. Foulds. 2,428,751; Oct. 7.
- Valve arrangement. R. K. Sedgwick. 2,423,120; July 1.
- Valve arrangement for rotary tool motors of the vane type, Fluid reversing. J. Sturrock. 2,428,726; Oct. 7.
- Valve assembly. H. B. Carbon. 2,432,225; Dec. 9.
- Valve assembly. J. F. Melichar. 2,414,966; Jan. 28.
- Valve assembly, Balanced. J. A. Lauck. 2,423,393; July 1.
- Valve assembly for hydraulic braking system. R. E. Tamm and E. R. Martens. 2,431,210; Nov. 18.
- Valve assembly for internal-combustion engines, compressors, and the like, Rotary. F. M. Aspin. 2,429,304; Oct. 21.
- Valve assembly, Quick opening check. A. L. Parker. 2,431,769; Dec. 2.
- Valve closed container. R. M. Berglund. 2,429,984; Nov. 4.
- Valve compass system, Remote reading flux. L. F. Beach. 2,427,654; Sept. 23.
- Valve construction. A. B. Bagsar. 2,417,901; Mar. 25.
- Valve construction. R. O. Monroe and J. W. Hieronymus. 2,422,796; June 24.
- Valve control for fluid coupling, Thermostatic outlet. L. Karl and F. Kugel. 2,423,812; July 8.
- Valve control for fuel oil heaters. H. G. Johnson. 2,414,953; Jan. 28.
- Valve control means for pressurized cabins, Supercharger and exhaust. A. B. Jepson and J. B. Cooper. 2,414,202; Jan. 14.
- Valve control mechanism. T. F. Van Denberg and J. Selby. 2,417,577; Mar. 18.
- Valve control mechanism for pressure fluid motors. P. Van Sittert. 2,433,719; Dec. 30.
- Valve control mechanism for saxophones and the like, Octave. E. J. Gillespie. 2,425,796; Aug. 19.
- Valve converting system and operating the same, Electric. L. L. Johnson. 2,433,563; Dec. 30.
- Valve converting system, Apparatus for and method of starting an electric. L. L. Johnson. 2,428,332; Sept. 30.
- Valve converting system, Electric. D. Sciaky. 2,431,083; Nov. 18.
- Valve cooling mechanism. W. B. Bronander. 2,416,866; Mar. 4.
- Valve core remover. L. A. Heintzelman. 2,417,360; Mar. 11.
- Valve end seal. S. C. Hoof. 2,417,494; Mar. 18.
- Valve for air filters, Float. G. Franklin. 2,417,976; Mar. 25.
- Valve for carburetors, Electrically controlled air. J. F. Decker. 2,433,205; Dec. 23.
- Valve for cutting torches, Oxygen. H. G. Hughey. 2,414,878; Jan. 28.
- Valve for fluid containers, Stopper. C. T. La Mont. 2,419,840; Apr. 29.
- Valve for fluid motors of the expandable chamber type, Piston rod actuated. W. C. Hess. 2,433,759; Dec. 30.
- Valve for fluid pressure brakes, Initial quick charging. T. H. Birch. 2,425,591; Aug. 12.
- Valve for gas columns, Flushing. D. C. Holmes. 2,416,482; Feb. 25.
- Valve for hydraulic circuits. G. A. Waldie. 2,416,722; Mar. 4.
- Valve for hydraulic circuits, Unloading. W. M. Gilman. 2,420,394; May 13.
- Valve for hydraulic presses, Control. J. M. and F. H. Towler. 2,414,568; Jan. 21.
- Valve for hydraulic systems, Flow reversing. O. A. Kehle. 2,427,788; Sept. 23.
- Valve for hydraulic transmission systems, Automatic shutoff. H. Field, Jr. 2,428,150; Sept. 30.
- Valve for internal-combustion engines, Rotary. C. E. Frank and R. A. Wyatt. 2,427,270; Sept. 9.
- Valve for lubrication. F. A. Terry. 2,425,446; Aug. 12.
- Valve for mining machines. R. K. Jeffrey. 2,427,859; Sept. 23.
- Valve for percussive tool, Distributing. M. O'Farrell. 2,415,521; Feb. 11.
- Valve for percussive tools, Distributing. M. O'Farrell. 2,426,409; Aug. 26.
- Valve for pressure fluid servomotors. R. R. Richolt. 2,424,901; July 29.
- Valve for reciprocating expandable chamber motors, Pilot controlled steam distributing. E. J. Lifner. 2,420,961; May 20.
- Valve for regulators, Manual control. P. C. Temple. 2,422,758; June 24.
- Valve for spray gun. J. Allan. 2,430,697; Nov. 11.
- Valve for squeeze tube containers, Dispensing. M. Hermann. 2,418,348; Apr. 1.
- Valve for tanks, Venting and discharge. C. H. Scott. 2,430,956; Nov. 18.
- Valve guard for saxophones and the like, Demountable. E. J. Gillespie. 2,425,795; Aug. 19.
- Valve guide, Adjustable. J. K. McDermott. 2,420,183; May 6.
- Valve guide slide. H. E. Pleasant. 2,429,485; Oct. 21.
- Valve leakage indicator. E. J. Grace, Jr. 2,430,122; Nov. 4.
- Valve means for hydraulic motors, Flow controlling. W. Ernst. 2,431,032; Nov. 18.
- Valve mechanism. A. D. Ferguson. 2,417,246; Mar. 11.
- Valve mechanism for fluid-pressure engines. G. H. Leek and R. H. Rose. 2,421,510; June 3.
- Valve mechanism for gas uptake pipes of a coke oven battery. O. M. Tweit. 2,424,865; July 29.
- Valve mechanism for hydraulic motors, Selective. C. W. Mott. 2,419,908; Apr. 29.
- Valve mechanism for soot blowers. De L. E. Hibner and F. C. Arey. 2,421,941; June 10.
- Valve mechanism, Safety shutoff. T. F. Van Denberg and J. Selby. 2,427,935; Sept. 23.
- Valve mechanism, Selector. C. B. Livers. 2,425,380; Aug. 12.
- Valve mechanisms. W. B. Bronander. 2,424,738; July 29.
- Valve of the poppet valve type of internal-combustion engines, Exhaust. J. C. Haefell. 2,427,208; Sept. 9.
- Valve operating extension, Telescopic. T. Walters. 2,431,527; Nov. 25.
- Valve packing composition. W. E. Vaughan and H. C. Kennedy. 2,427,636; Sept. 26.
- Valve protective system, Electric. S. R. Durand. 2,427,450; Sept. 16.
- Valve seat insert tool. N. J. Kirk and H. W. Bottger. 2,430,847; Nov. 11.
- Valve-seat puller. C. F. Robinson. 2,428,179; Sept. 30.
- Valve stem, Bendable. O. W. Hosking. 2,415,063; Jan. 28.
- Valve structure. H. B. Carbon. 2,419,481; Apr. 22.
- Valve structure and vent, Oil pressure. W. Bigos and E. T. Vincent. 2,433,085; Dec. 23.
- Valve structure, Liquid filter. H. W. Matlock. 2,430,578; Nov. 11.
- Valve structure, Liquid filter. G. M. Walton and H. W. Matlock. 2,431,782; Dec. 2.
- Valve system, Electric. B. Cooper. 2,421,994; June 10.
- Valve tester, Hydraulic. C. W. Meyers. 2,426,406; Aug. 26.
- Valve tester, Relief. H. E. Simonson. 2,419,293; Apr. 22.
- Valve thermostat control, Fluid coupling outlet. J. S. Hasbrouck. 2,421,501; June 3.
- Valved coupling. E. B. Wiggins. 2,425,500; Aug. 12.
- Valved pipe coupling. D. F. Geiger and G. C. True. 2,417,483; Mar. 18.
- Valved, slidable discharge tube. R. V. Lari. 2,424,101; July 15.
- Valveless pressure regulator. A. Boynton. 2,429,546; Oct. 21.
- Valves for two fluid motors, Joint or separate operation of control. T. Brown. 2,416,373; Feb. 25.
- Valves, Grinding. L. C. Culp. 2,417,971; Mar. 25.
- Valves, Making. E. F. Allen and L. M. Burrows. 2,419,243; Apr. 22.
- Valves, Making composite poppet. J. E. Wischhusen and G. D. Dolch, Jr. 2,431,553; Dec. 2.
- Valves, Making shrouded poppet. L. P. Novak. 2,415,606; Feb. 11.
- Vane for aerial bomb fuses, Arming. J. M. King, L. F. Young, A. E. Reinhard, and F. Schultze. 2,417,418; Mar. 18.
- Vane for balancing side thrust of antitorque devices, Helicopter rotor. S. P. Nemeth. 2,418,274; Apr. 1.
- Vanes and control, Inlet. H. A. Meyer. 2,430,523; Nov. 11.
- Vanillic acid, Production of. I. A. Pearl. 2,414,119; Jan. 14.
- Vanillic acid (silver oxide process), Production of. I. A. Pearl. 2,419,158; Apr. 15.
- Vanillyl alcohol, Production of. I. A. Pearl. 2,414,120; Jan. 14.
- Vanity case. R. Bower. 2,424,432; July 22.
- Vapor conserving tank. J. O. Jackson. 2,418,229; Apr. 1.
- Vapor dispensing device. S. J. Dunaway. 2,431,924; Dec. 2.
- Vapor electric device. F. E. Marsh and L. A. Casanova. 2,422,575; June 17.
- Vapor electric device. W. E. Pakala. 2,426,046; Aug. 19.
- Vapor-electric device. W. E. Pakala and H. C. Myers. 2,427,738; Sept. 23.
- Vapor electric device. H. A. Rose. 2,426,054; Aug. 19.
- Vapor-electric device. H. A. Rose. 2,428,586-7; Oct. 7.
- Vapor generating plant. R. F. Iager and C. C. Hamilton. 2,431,177; Nov. 18.
- Vapor generator. E. G. Bailey. 2,429,976; Nov. 4.
- Vapor generator. J. Blizard. 2,422,178; June 17.
- Vapor generator. E. L. Boland. 2,420,647; May 20.
- Vapor-phase dehydrochlorination. G. R. Van Atta and D. F. Houston. 2,430,897; Nov. 18.
- Vapor phase isomerization of normal paraffins. H. G. Cornell. 2,423,846; July 15.
- Vapor phase reactions, Performing catalytic. C. W. Stratford, J. A. Altshuler and D. H. Putney. 2,418,857; Apr. 15.
- Vaporizer. J. J. Richards. 2,424,209; July 15.
- Vaporizer, Engine fuel. P. E. Stille. 2,419,298; Apr. 22.
- Vapors, Quenching and cooling. C. E. Kleiber, D. L. Campbell, D. E. Stines, and G. T. Atkins. 2,414,817; Jan. 28.
- Variable capacity folding box. J. Fuehrer. 2,425,034; Aug. 5.
- Variable capacity pick-off for compass systems. L. F. Carter and F. West, Jr. 2,432,089; Dec. 9.



- Variable capacity pump. D. J. Deschamps. 2,431,686; Dec. 2.
- Variable compression engine. P. L. Gill. 2,427,668; Sept. 23.
- Variable delivery alternating piston pump. T. J. Lester. 2,426,361; Aug. 26.
- Variable delivery vane pump. A. F. Leis. 2,423,654; July 8.
- Variable flow restrictor. E. D. V. Platon. 2,426,238; Aug. 26.
- Variable gauge motor car. D. Richards. 2,415,219; Feb. 4.
- Variable inductance. R. F. J. Flood and R. C. Vine. 2,415,736; Feb. 11.
- Variable inductance device. W. F. Sands. 2,431,425; Nov. 25.
- Variable leverage mechanism for vehicle brakes. B. H. Browall. 2,427,252; Sept. 9.
- Variable load brake. A. G. H. Carlhom. 2,432,467; Dec. 9.
- Variable load brake. E. S. Cook. 2,418,013; Mar. 25.
- Variable permeability inductance device. C. Wentworth. 2,431,438; Nov. 25.
- Variable pitch fluid drive. R. D. Mudd. 2,415,365; Feb. 4.
- Variable pitch propeller, Torque responsive. D. G. Lilley. 2,432,320; Dec. 9.
- Variable potential integrating device. R. C. Dehmel. 2,432,140; Dec. 9.
- Variable ratio gearing. B. S. Robson. 2,432,210; Dec. 9.
- Variable ratio steering assembly. J. H. Booth. 2,417,073; Mar. 11.
- Variable ratio steering gear. M. P. Graham. 2,417,072; Mar. 11.
- Variable reactance. H. W. Washburn and E. E. Hoskins. 2,423,864; July 15.
- Variable resistance welding electrode holder. J. C. Honhart and E. W. Bagg. 2,414,043; Jan. 7.
- Variable stroke hand pump. O. M. Summers. 2,423,162; July 1.
- Variable stroke radial cylinder type pump. J. E. Smith. 2,417,183; Mar. 11.
- Variable wheel tread vehicle. W. F. Strehlow. 2,417,139; Mar. 11.
- Variometer. H. E. Thomas. 2,414,280; Jan. 14.
- Varnish and making the same. L. Auer. 2,422,175; June 17.
- Varnish, Blown wrinkle. W. A. Waldie. 2,419,238; Apr. 22.
- Varnisher and printing machine, Paper sheet. E. W. and F. R. Belluche. 2,424,732; July 29.
- Varnishes from polyhydric alcohol mixed esters of  $\beta$ -furyl-acrylic acid and an acidic natural resin. H. S. Rothrock. 2,425,756; Aug. 19.
- Varnishes, Rosin-maleic anhydride-non-conjugated fatty oil. L. K. Scott. 2,417,327; Mar. 11.
- Vasodilator compositions comprising alkyl nicotines. W. Huber. 2,431,558; Nov. 25.
- Vault, Burial. G. E. Mansfield. 2,431,183; Nov. 18.
- Vault, Grave. J. W. Stagers. 2,429,000; Oct. 14.
- Vegetable matter and product obtained, Treatment of. A. M. Zenzes. 2,426,076; Aug. 19.
- Vegetable oils, Winterizing. F. P. Parkin and G. N. Walker. 2,425,001; Aug. 5.
- Vegetable product and producing same. E. W. Schmidt and W. F. Webber. 2,430,535; Nov. 11.
- Vegetable protein, Alkali-treating. G. Davidson. 2,431,993; Dec. 2.
- Vegetable protein-polyposphate compounds, Preparing. A. A. Horvath. 2,429,579; Oct. 21.
- Vegetable protein-polyposphate urea solution and preparing same. A. A. Horvath. 2,431,119; Nov. 18.
- Vegetable topper. W. E. Tenbrook. 2,415,227; Feb. 4.
- Vehicle: See—
- Amphibian vehicle.
- Automatic transporting vehicle.
- Ball bearing roller bobsled type vehicle.
- Bottom dump vehicle.
- Child's vehicle.
- Collapsible stroller vehicle.
- Convertible vehicle.
- Dirt scraping and hauling vehicle.
- Front drive toy vehicle.
- Gelatin vehicle.
- Gun-carrying vehicle.
- Gyroscopically controlled motor vehicle.
- Hauling vehicle.
- Motor vehicle.
- Pedal-operated aquatic vehicle.
- Self-propelled vehicle.
- Short turn trailer vehicle.
- Snow vehicle.
- Toy vehicle.
- Trailer vehicle.
- Transportation vehicle.
- Variable wheel tread vehicle.
- Wheeled load lifting vehicle.
- Vehicle construction, Auxiliary powered. D. D. Ormsby. 2,419,911-12; Apr. 29.
- Vehicle construction, Auxiliary powered. G. D. Wilcox. 2,419,807; Apr. 29.
- Vehicle construction, Auxiliary powered. G. D. Wilcox. 2,419,929; Apr. 29.
- Vehicle cooler. W. V. Hanson. 2,432,755; Dec. 16.
- Vehicle deceleration signal. N. L. Brown. 2,420,351; May 13.
- Vehicle draft tongue mounting. D. S. Weiss. 2,428,950; Oct. 14.
- Vehicle drive. G. L. Larison. 2,415,596; Feb. 11.
- Vehicle exterior lighting unit. E. B. Hallman. 2,432,754; Dec. 16.
- Vehicle for children, Wheeled. W. B. Fageol. 2,423,590; July 8.
- Vehicle for exploding land mines, and for tamping ground. E. W. Austin. 2,419,308; Apr. 22.
- Vehicle hoist. E. B. Thompson. 2,424,673; July 29.
- Vehicle lighting system. J. E. Candlin, Jr., and H. L. Howe. 2,421,680; June 3.
- Vehicle, Making a water dispersible coating. G. E. Ellerman. 2,423,230; July 1.
- Vehicle mounted carrier bracket. N. J. Iverson. 2,431,400; Nov. 25.
- Vehicle of connected sections, Powered. R. Lucien. 2,425,948; Aug. 19.
- Vehicle-operated gate. P. C. and W. B. Hallmark. 2,432,881; Dec. 16.
- Vehicle running gear. W. E. Daugherty. 2,423,585; July 8.
- Vehicle seat. L. B. Rivard and W. Jensen. 2,421,851; June 10.
- Vehicle spring suspension. D. E. Willis. 2,431,440; Nov. 25.
- Vehicle steering spindle mounting. L. R. Buckendale. 2,421,007; May 27.
- Vehicle stop device. G. F. Zucker. 2,430,319; Nov. 4.
- Vehicle suspension. R. W. Brown. 2,415,026; Jan. 28.
- Vehicle suspension. H. A. Knox. 2,427,006; Sept. 9.
- Vehicle suspension. H. Schütte. 2,427,927; Sept. 23.
- Vehicle suspension warning indicator control. G. L. Larison. 2,426,360; Aug. 26.
- Vehicle top. E. Acheson. 2,430,442; Nov. 11.
- Vehicle tow bar. H. H. Heuerman. 2,417,871; Mar. 25.
- Vehicle wheel. C. S. Ash. 2,427,378; Sept. 16.
- Vehicle wheel. G. Faulds. 2,433,605; Dec. 30.
- Vehicle wheel. J. V. L. Peacock. 2,432,675; Dec. 16.
- Vehicle wheel. J. J. Spira. 2,417,095; Mar. 11.
- Vehicle wheel. J. J. Spira. 2,417,382; Mar. 11.
- Vehicle wheel. W. B. Terry. 2,433,073; Dec. 23.
- Vehicle wheel. C. L. Waldeck and J. A. Dever. 2,427,430; Sept. 16.
- Vehicle wheel cover. G. A. Lyon. 2,421,756; June 10.
- Vehicle wheel cover. G. A. Lyon. 2,422,690; June 24.
- Vehicle wheel mounting. E. M. Bolze. 2,414,286; Jan. 14.
- Vehicle wheel mounting means. V. C. Cass. 2,430,158; Nov. 4.
- Vehicle wheel suspension. F. W. Slack and C. C. Utz. 2,414,674; Jan. 21.
- Vehicle with conveyor for unloading, Transporting. J. M. Step. 2,431,000; Nov. 18.
- Vehicles, Handling loads in. G. H. Pride. 2,421,128; May 27.
- Velocipede. C. Scoles. 2,429,845; Oct. 28.
- Vending and display device. J. Friedlander. 2,414,691; Jan. 21.
- Vending apparatus, Package. F. H. Osborne. 2,428,579; Oct. 7.
- Vending machine. C. L. Casey and J. B. Ryno. 2,427,321; Sept. 9.
- Vending machine. C. H. Dixon. 2,425,870; Aug. 19.
- Vending machine. B. W. Fry. 2,416,439; Feb. 25.
- Vending machine. P. B. Richardson. 2,416,221; Feb. 18.
- Vending machine. J. E. Stewart. 2,423,265; July 1.
- Vending machine. M. A. Thompson. 2,426,956; Sept. 2.
- Vending machine, Beverage. G. F. Albrecht. 2,416,728; Mar. 4.
- Veneer, Method and apparatus for making paper-covered. R. N. Ware, Jr. and R. Cannon. 2,425,660; Aug. 12.
- Venetian blind. F. Anderson and F. D. Couzens. 2,421,308; May 27.
- Venetian blind. P. Lippert. 2,422,915; June 24.
- Venetian blind attachment. M. W. Albrecht. 2,429,446; Oct. 21.
- Venetian blind slat. M. A. Elliott. 2,428,909; Oct. 14.
- Venetian blind tilt-bar support. J. Nisenon and M. Blazer. 2,414,548; Jan. 21.
- Venetian blind tilter. H. H. Nelson. 2,430,579; Nov. 11.
- Vent plug. W. D. Carson. 2,427,764; Sept. 23.
- Ventilated wood reinforced fiberboard container. H. E. and I. H. Montague. 2,414,659; Jan. 21.
- Ventilating system. G. S. Dauphinee. 2,432,289; Dec. 9.
- Ventilating unit. M. E. Hagler. 2,430,225; Nov. 4.
- Ventilation including the removal of solvent vapor by adsorption. E. L. Luaces. 2,428,885; Oct. 14.
- Ventilator. G. C. Breidert. 2,428,544; Oct. 7.
- Ventilator, Chimney. G. F. Zucker. 2,423,672; July 8.
- Ventilator construction. W. Rutter. 2,422,855; June 24.
- Ventilator for buildings. G. Tillman. 2,423,739; July 8.
- Ventilator including a motor-driven fan, Pivotaly mounted porthole blackout. V. J. Cucchi. 2,418,760; Apr. 8.
- Ventilator, Intake. G. C. Breidert. 2,428,545; Oct. 7.



- Ventilator, Window. H. A. Etling. 2,422,085; June 10.  
 Ventilator, Window. L. W. Woolley. 2,414,426; Jan. 14.  
 Venturi fitting. E. E. Rogers. 2,428,585; Oct. 7.  
 Vernier for slide rules. E. Seidman. 2,424,713; July 29.  
 Vertical adjustment device. O. R. Nemeth. 2,431,669; Nov. 25.  
 Vertical axis type mixing and chasing mill. R. J. Sharp. 2,413,793; Jan. 7.  
 Vertical steam boiler. S. W. C. Fleming. 2,414,148; Jan. 14.  
 Vertically adjusted seat. N. T. Shepherd. 2,427,234; Sept. 9.  
 Vessel and rack therefor, Culinary. J. W. Eldridge. 2,420,940; May 20.  
 Vessel handle assembly. J. B. Ward. 2,422,510; June 17.  
 Vessel, Lined. F. A. Ferguson. 2,420,038; May 6.  
 Vessel, Pressure. A. W. Bruce and J. Partington. 2,421,596; June 3.  
 Vessel, Storage. H. C. Boardman. 2,433,335; Dec. 30.  
 Vessels, Construction of metal. N. C. Jannsen. 2,419,218; Apr. 22.  
 Vest, Back-protective surgical suspender. H. Berman. 2,418,009; Mar. 25.  
 Veterinarian's instrument. B. H. Moses. 2,424,767; July 29.  
 Vibrating apparatus. T. A. Dillon. 2,421,485; June 3.  
 Vibrating device. H. S. Wenander. 2,422,639; June 17.  
 Vibration absorption block. C. S. Robinson. 2,425,566; Aug. 12.  
 Vibration absorption device. C. S. Robinson. 2,425,567; Aug. 12.  
 Vibration absorption unit. C. S. Robinson. 2,425,565; Aug. 12.  
 Vibration apparatus. E. L. Kent and R. C. Treseder. 2,428,671; Oct. 7.  
 Vibration dampening device. H. A. Storch. 2,425,654; Aug. 12.  
 Vibration damping circuit. W. P. Mason. 2,416,337; Feb. 25.  
 Vibration errors in magnetic compasses and the like, Elimination of. G. M. Giannini. 2,422,960; June 24.  
 Vibration recorder. W. W. Young. 2,420,025; May 6.  
 Vibration responsive apparatus. R. C. Treseder. 2,424,864; July 29.  
 Vibration translating device. W. S. Bachman. 2,415,403; Feb. 11.  
 Vibrator. F. A. Burrows. 2,427,898; Sept. 23.  
 Vibrator. C. F. Coake. 2,427,990; Sept. 23.  
 Vibrator. L. H. Collins and E. C. Smith. 2,433,739; Dec. 30.  
 Vibrator. C. Huetten. 2,415,691; Feb. 11.  
 Vibrator. F. E. Knipper. 2,425,621; Aug. 12.  
 Vibrator. F. W. Side. 2,423,524; July 8.  
 Vibrator, Electrical. L. H. Collins and E. C. Smith. 2,433,740; Dec. 30.  
 Vibrator, Hygienic. A. R. Marty. 2,413,879; Jan. 7.  
 Vibrator, Mold. A. Kavula. 2,431,872; Dec. 2.  
 Vibrator power supply. J. J. O'Callaghan and R. W. Saville. 2,423,614; July 8.  
 Vibratory massage device. J. Eldredge and J. F. Novak. 2,417,744; Mar. 18.  
 Vibratory rotary screen. W. E. Saxe. 2,416,499; Feb. 25.  
 Vibratory soap dispenser. E. A. Planas. 2,433,708; Dec. 30.  
 Vibratory unit for electrodynamic loud-speakers. D. Eklöv. 2,427,844; Sept. 23.  
 Viewer for use in connection with stereoscopic pictures, Light-polarizing. E. H. Land. 2,431,942; Dec. 2.  
 Viewer, Transparent picture. R. N. Dennis. 2,419,339; Apr. 22.  
 Viewing system. L. A. Meacham. 2,422,697; June 24.  
 Vinegar, Producing. J. J. Mackin. 2,423,897; July 15.  
 Vinyl acetate alone or in mixtures, and products thereof, Polymerization of. E. L. Kropa. 2,425,192; Aug. 5.  
 Vinyl acetate by distillation and scrubbing of the distillate, Purification of. V. L. Hansley and P. L. Magill. 2,431,554; Nov. 25.  
 Vinyl alkyl ether polymers, Modified. C. E. Schildknecht. 2,429,587; Oct. 21.  
 Vinyl and vinylidene compounds, Photopolymerization of. B. W. Howk and R. A. Jacobson. 2,413,973; Jan. 7.  
 Vinyl aromatic compounds with gaseous diolefins or acetylenes, Stabilization of. T. S. Chambers. 2,420,862; May 20.  
 Vinyl aromatic material, Cutting polymerized. T. S. Carswell. 2,420,284; May 6.  
 Vinyl chloride and esters of ethylenedicarboxylic acids, Treatment of interpolymers. B. W. Howk and H. J. Richter. 2,416,874; Mar. 4.  
 Vinyl chloride copolymer and making it. L. C. Shriver and G. H. Fremon. 2,420,330; May 13.  
 Vinyl chloride-vinylidene chloride copolymer plasticized with bis (carboalkoxy) diethyl ether. A. M. Clifford and J. G. Lichty. 2,414,022; Jan. 7.  
 Vinyl compounds with rubber, Polymerization of. R. A. Jacobson. 2,422,550; June 17.  
 Vinyl cyanide, Catalytic synthesis of. M. W. Farlow and W. A. Lazier. 2,417,068; Mar. 11.  
 Vinyl cyanide from acetylene and HCN. B. W. Howk. 2,423,318; July 1.  
 Vinyl cyanide, Manufacture of. C. R. Harris and W. C. Sharples. 2,419,186; Apr. 15.  
 Vinyl cyanide, Manufacture of. C. R. Harris and W. C. Sharples. 2,429,460; Oct. 21.  
 Vinyl cyanide, Production of. C. R. Harris. 2,429,459; Oct. 21.  
 Vinyl esters, Manufacture of. H. F. Oxley, E. B. Thomas, and W. G. B. Mills. 2,425,389; Aug. 12.  
 Vinylfluorenes and making the same. R. K. Abbott, Jr., and E. A. Kern. 2,427,337; Sept. 16.  
 Vinyl fluoride copolymers. D. D. Coffman and T. A. Ford. 2,419,009; Apr. 15.  
 Vinyl fluoride, Polymerizing. D. D. Coffman and T. A. Ford. 2,419,008; Apr. 15.  
 Vinyl furane copolymerization products. A. M. Clifford. 2,419,057; Apr. 15.  
 Vinyl polymer plasticized with ethylene diamine tetra-acetic acid ester. F. C. Bersworth. 2,413,856; Jan. 7.  
 Vinyl resin compositions, Production of spinnable. R. D. Glenn. 2,418,507; Apr. 8.  
 Vinyl resin molding composition. G. W. Whitehead. 2,415,319; Feb. 4.  
 Vinyl resin suspensions. G. M. Powell, 3rd, and T. E. Mullen. 2,431,078; Nov. 18.  
 Vinyl resin, Vulcanization of. L. F. Reuter. 2,427,070; Sept. 9.  
 Vinyl resins, Vulcanization of. L. F. Reuter. 2,427,071; Sept. 9.  
 Vinylidene chloride compositions stable to light. R. F. Boyer. 2,429,155; Oct. 14.  
 Vinylidene chloride polymer compositions stable to light. L. A. Matheson and R. F. Boyer. 2,429,165; Oct. 14.  
 Vinylidene chloride polymers while in contact with cadmium or cadmium base alloys, Shaping of. S. Pellerano. 2,418,423; Apr. 1.  
 Vinylidene chloride-vinyl chloride copolymer cured with an aryl guanidine. T. H. Rogers, Jr., and R. D. Vickers. 2,419,166; Apr. 15.  
 Vinylidene compounds in the presence of N-disubstituted dithiocarbamic esters, Photopolymerization of. L. M. Richards. 2,423,520; July 8.  
 Violin bow, Variable tension. W. K. Krause. 2,421,567; June 3.  
 Viscose spinning solutions. R. S. Bley. 2,432,085; Dec. 9.  
 Viscosimeter. L. C. Eitzen and W. C. Schwaderer. 2,431,378; Nov. 25.  
 Viscosimeter. K. Fischer. 2,426,263; Aug. 26.  
 Viscosimeter. K. Fischer. 2,426,393; Aug. 26.  
 Viscous damping system. B. F. Wheeler. 2,417,282; Mar. 11.  
 Viscous protein solutions for the production of artificial filaments, Manufacture of. R. H. K. Thomson and S. R. Swift. 2,417,576; Mar. 18.  
 Vise assembly. A. T. Porterfield. 2,430,366; Nov. 4.  
 Vise, Cam operated. M. Moore. 2,415,303; Feb. 4.  
 Vise, Fluid pressure operated. G. F. Bates. 2,417,625; Mar. 18.  
 Vise, Gunsmith's. L. Meister. 2,427,365; Sept. 16.  
 Vise, Quick locking. R. O. Heinrich. 2,424,313; July 22.  
 Vise, Saw. D. Ouellet. 2,429,292; Oct. 21.  
 Vise, Universal. J. A. Disse. 2,419,887; Apr. 29.  
 Vise with auxiliary support. J. W. Butler. 2,429,801; Oct. 28.  
 Vision aid. E. G. Robeson. 2,419,917; Apr. 29.  
 Vision test, Binocular. A. Ames, Jr. 2,419,939; May 6.  
 Visor, Combined ticket strip and viewing. E. H. Land. 2,416,528; Feb. 25.  
 Visor, Viewing. C. W. Williams. 2,423,539; July 8.  
 Visor, Windshield. L. B. Stroth. 2,422,863; June 24.  
 Vitamin A acid and its esters and making them. N. A. Milas. 2,424,994; Aug. 5.  
 Vitamin A carotenoids, Concentration of. H. B. Lerner. 2,432,021; Dec. 2.  
 Vitamin A ethers, Preparation of. J. D. Cawley. 2,430,493; Nov. 11.  
 Vitamin A, Manufacture of. B. C. Cornwell. 2,414,722; Jan. 21.  
 Vitamin A, Synthesis of. N. A. Milas. 2,432,921; Dec. 16.  
 Vitamin B<sub>6</sub> intermediates. G. H. Carlson and F. J. Pilgrim. 2,417,541; Mar. 18.  
 Vitamin B<sub>6</sub> intermediates. G. H. Carlson and F. J. Pilgrim. 2,431,463; Nov. 25.  
 Vitamin B<sub>6</sub> intermediates. S. A. Harris. 2,422,617-21; June 17.  
 Vitamin B<sub>6</sub> intermediates and preparing the same. S. A. Harris. 2,422,616; June 17.  
 Vitamin B<sub>6</sub>, Synthesis of. S. A. Harris. 2,422,195; June 17.  
 Vitamin B<sub>6</sub>, Synthesis of. S. A. Harris. 2,422,622; June 17.  
 Vitamin recovery. W. R. Trent. 2,432,181; Dec. 9.  
 Vitamin solutions, Fat-soluble. L. Freedman and E. Green. 2,417,299; Mar. 11.  
 Vitaminic products processes. N. D. Embree and E. M. Shantz. 2,414,458; Jan. 21.  
 Vitreous material, Manufacture of an improved. A. W. H. Wedlock. Re. 22,893; June 24.  
 Voice frequency ringer. W. Brandt. 2,414,440; Jan. 21.  
 Volatile monomeric materials from aqueous polymer dispersions while reducing foam formation by the presence of a water-soluble weak inorganic acid, Distillation of. D. Craig. 2,432,386; Dec. 9.  
 Voltage control system, Differential. H. E. Haynes. 2,421,560; June 3.



- Voltage measuring device, Average value. H. E. Haynes. 2,424,312; July 22.
- Voltage regulated rectifier circuit. J. A. Potter. 2,423,114; July 1.
- Voltage regulation. W. H. Bixby. 2,413,941; Jan. 7.
- Voltage regulation. J. A. Potter. 2,414,122; Jan. 14.
- Voltage regulation. J. A. Potter. 2,414,242; Jan. 14.
- Voltage regulator. E. C. Barwick. 2,427,544; Sept. 16.
- Voltage regulator. J. M. Brumbaugh. 2,423,368; July 1.
- Voltage regulator. W. J. Poch. 2,427,109; Sept. 9.
- Voltage regulator. G. F. Starnes. 2,419,176; Apr. 15.
- Voltage supply, Electron multiplier. D. R. Rasley. 2,432,681; Dec. 16.
- Voltmeter, Vacuum tube bridge. J. Remde. 2,425,641; Aug. 12.
- Volume control, Automatic. F. G. Crawford and E. A. Stroschein. 2,420,933; May 20.
- Volume control construction. E. E. Johnson. 2,415,497; Feb. 11.
- Volume measuring means for skip loading. A. J. Whitcomb. 2,415,199; Feb. 4.
- Vortex dust separator. W. Alexander. 2,425,588; Aug. 12.
- Voting machine. A. N. Gustavson. 2,424,613; July 29.
- Vulcanizable compositions. G. F. D'Alelio. 2,414,803; Jan. 28.
- Vulcanizable compositions to metallic surfaces, Bonding of. T. K. Cox. 2,427,196; Sept. 9.
- Vulcanizable products and their manufacture. F. C. Bersworth and M. Omansky. 2,413,857; Jan. 7.
- Vulcanization, Process and apparatus for. C. M. Canfield. 2,426,341; Aug. 26.
- Vulcanizer, Portable. J. B. Miller. 2,415,959; Feb. 18.
- Vulcanizing apparatus. G. P. Bosomworth and H. G. Hager. 2,424,915; July 29.
- Vulcanizing polyester synthetic rubbers to metal bases by means of an intermediate layer of a glycerol phthalate composition. C. S. Fuller. 2,433,357; Dec. 30.
- Wabblers coupling. J. M. O'Malley. 2,430,683; Nov. 11.
- Waffle warming rack. V. V. Kerber and H. S. Cochran. 2,429,025; Oct. 14.
- Wagon construction. T. I. Duffy. 2,418,971; Apr. 15.
- Wagon, Self-loading. R. G. Le Tourneau. 2,426,889; Sept. 2.
- Wagon, Self-propelled dump. R. G. Le Tourneau. 2,418,588; Apr. 8.
- Wagon welded in one piece, Tank. N. A. Andersson. 2,426,481; Aug. 26.
- Wake formation, Preventing. G. Brush. 2,414,632; Jan. 21.
- Walk for railway house cars. G. G. Gilpin. 2,420,533; May 13.
- Walker and stroller, Baby. F. S. Nanna. 2,415,146; Feb. 4.
- Walker and stroller, Infant's. F. Collura. 2,427,550; Sept. 16.
- Walker, Baby. G. B. Hunsburg. 2,427,964; Sept. 23.
- Walking-aid frame. O. L. Mendenhall. 2,430,235; Nov. 4.
- Walking edger. C. Sanford. 2,419,167; Apr. 15.
- Wall cleaner. O. Stevason. 2,426,531; Aug. 26.
- Wall construction. R. Béhin. 2,424,547; July 29.
- Wall construction, Block. R. D. Wells. Re. 22,913; Sept. 9.
- Wall construction, By-product coke oven. A. B. Agnew and F. J. Rief. 2,433,253; Dec. 23.
- Wall construction, Furnace. S. N. and W. B. Levy. 2,422,571; June 17.
- Wall construction, Heat-resisting. H. C. Thayer. 2,429,949; Oct. 28.
- Wall form, Concrete. F. F. Stadelhofer. 2,426,796; Sept. 2.
- Wall-mounted ram-type aircraft heater. H. J. D. McCollum. 2,422,694; June 24.
- Wall structure. C. B. Voegel. 2,430,654; Nov. 11.
- Wall structure, Building. C. H. Juergens. 2,425,619; Aug. 12.
- Wall structure system, Sectional. K. L. Wachsmann. 2,426,802; Sept. 2.
- Wall support with pivoted racks. J. D. Mable. 2,414,752; Jan. 21.
- Wall switch. H. N. Heasty. 2,421,881; June 10.
- Wall table. R. P. Jensen. 2,420,041; May 6.
- Wall under compression provided with an opening, Concrete. J. M. Crom. 2,417,190; Mar. 11.
- Walls, Filler for and treatment of fractured masonry. W. H. Walter. 2,417,026; Mar. 4.
- Wallet and card case, Combined. E. F. Miller. 2,422,432; June 17.
- Wallet and purse, Combined. S. Plotzky. 2,417,322; Mar. 11.
- Wallet construction having secret compartment. M. Smallman. 2,433,714; Dec. 30.
- Wallet with secret compartment. S. Knee. 2,423,939; July 15.
- Ward Leonard control system. W. R. Harris. 2,426,019; Aug. 19.
- Wardrobe, Tripanelled collapsible. H. Derman. 2,433,100; Dec. 23.
- Warming device. H. R. Miller. 2,429,234; Oct. 21.
- Warning arrangement for telephones, Time. H. E. Gordon. 2,413,825; Jan. 7.
- Warning device, Backup. B. H. Hadley. 2,431,117; Nov. 18.
- Warp beam. H. Menking. 2,426,464; Aug. 26.
- Warp in looms, Controlling the tension on the. R. P. Jacques. 2,430,639; Nov. 11.
- Warp strumming apparatus. B. A. Hagler. 2,426,553; Aug. 26.
- Warp supply for circular weaving machines. V. M. J. Ancet. 2,433,190; Dec. 23.
- Warp, threads, yarns, and the like, Method and apparatus for conditioning. H. J. Walter and P. R. Rose. 2,421,135; May 27.
- Warp yarn feeding means for warp knitting machines. F. Lambach. 2,430,022; Nov. 4.
- Washable fabric lunch bag. E. L. Martin. 2,425,683; Aug. 12.
- Washer: See—  
     Gas washer. Pipette washer.  
     Fruit jar washer. Pulp washer.  
     Lock washer. Tilttable laundry washer.
- Washer cutter. I. Telles. 2,429,245; Oct. 21.
- Washer having a releasable band drain, Tumbler type clothes. J. P. Jorgenson. 2,426,455; Aug. 26.
- Washing and cleaning machine. G. Kubn. 2,417,557; Mar. 18.
- Washing and drying apparatus, Dish. N. H. Koertge. 2,422,022; June 10.
- Washing device. E. M. Davis. 2,427,840; Sept. 23.
- Washing machine and automatic control mechanism therefor. J. W. Chamberlin. 2,430,668; Nov. 11.
- Washing machine and means for the progressive movement of articles therethrough, Cylindrical. R. F. Ternes. 2,433,796; Dec. 30.
- Washing machine and method, Domestic. K. Clark. 2,421,242; May 27.
- Washing machine, Coin-controlled. E. R. Farny. 2,427,396; Sept. 16.
- Washing machine, Combination clothes and dish. I. Deutsch. 2,416,616; Feb. 25.
- Washing machine for clothes, dishes, and the like, Domestic. E. R. Hallanan. 2,431,246; Nov. 18.
- Washing machine having independently actuated vertically reciprocating and oscillating agitators. F. V. Cheney. 2,429,610; Oct. 28.
- Washing machine having squeeze bar therein, Tumbler type clothes. G. E. Ehrling. 2,431,925; Dec. 2.
- Washing machine having tumble end wall drain, Clothes. J. H. Leef. 2,428,286; Sept. 30.
- Washing machine, Rotary drum clothes. J. H. Leef. 2,414,154; Jan. 14.
- Washing machine transmission. R. E. Bassett, Jr. 2,426,078; Aug. 19.
- Washing machines having premixing means. L. M. Harvey. 2,431,040; Nov. 18.
- Waste heat boiler. R. B. Bourne. 2,418,157; Apr. 1.
- Watch dial construction. M. Group and J. Schonholtz. 2,427,961; Sept. 23.
- Water and sun-proofing paper and textiles and the composition to be used in the method. Method of. A. R. Patterson. 2,414,327; Jan. 14.
- Water chest rack for a machine gun mount. A. J. Cormier. 2,430,454; Nov. 11.
- Water-cooled ammunition rack. L. T. Heath and V. C. Gilbert. 2,420,663; May 20.
- Water-cooled furnace door. A. W. Hellstrom. 2,422,015; June 10.
- Water-cooled slab mold. E. C. Falk and R. S. Storrs. 2,428,657-60; Oct. 7.
- Water correction device, Electrolytic. E. M. Butler. 2,424,145; July 15.
- Watercraft. E. A. Farish. 2,427,772; Sept. 23.
- Water flow control for humidifiers. L. L. Sill. 2,425,962; Aug. 19.
- Water from aqueous solutions, Removal of. H. L. Mantle. 2,424,663; July 29.
- Water heater. H. B. Babson and C. A. Thomas. Re. 22,866; Apr. 15.
- Water heater. L. A. Beatty. 2,429,665; Oct. 28.
- Water heater. T. Bennett and E. Hurst. 2,423,000; June 24.
- Water heater. W. P. Horne. 2,414,875; Jan. 28.
- Water heater. E. D. Marquette. 2,419,273; Apr. 22.
- Water-heating apparatus. T. A. Buckles. 2,423,578; July 8.
- Water injection system. P. F. Adair. 2,431,679; Dec. 2.
- Water-insoluble metaphosphates, Solutions of. H. A. Jackson. 2,414,742; Jan. 21.
- Waterproof material, and its production, Flexible. E. H. Colesworthy. 2,423,294; July 1.
- Waterproofing, Method and composition for. S. M. Edelstein. 2,426,300; Aug. 26.
- Water pump refacing tool. W. B. Chiles. 2,431,369; Nov. 25.
- Water purifier, Electrolytic. T. C. Jones. 2,425,424; Aug. 12.
- Water purifying apparatus having inlet water spray nozzles and means to direct steam into the path of the water. J. F. Sebald. 2,427,422; Sept. 16.
- Water-resistant laminated articles, Manufacture of. J. D. Carter. 2,414,360; Jan. 14.
- Water-resistant unflammable organic fibrous materials and product, Manufacture of. F. F. Pollak. 2,418,525; Apr. 8.
- Water-softening apparatus having a valve for admitting reacting agent thereto. H. J. Shafer. 2,432,178; Dec. 9.



- Water-soluble condensation products and making same. O. Albrecht. 2,432,850; Dec. 16.
- Water-soluble derivatives of 2-methyl-1,4-dihydroxy-naphthalene and their production. F. von Werder. 2,428,253; Sept. 30.
- Water sport device. J. O. de Chappedelaine. 2,416,471; Feb. 25.
- Water-stop expansion joint. A. C. Fischer. 2,431,386; Nov. 25.
- Water supply system, Continuous sterile. E. Rothwell. 2,417,950; Mar. 25.
- Water surfacing elements, Locked down. H. W. Greider, G. A. Fasold, and W. C. Bowman. 2,421,417; June 3.
- Watertight bag. V. H. Hurt. 2,423,889; July 15.
- Water-treating apparatus, Upflow. J. D. Walker. 2,427,886; Sept. 23.
- Water treating compositions, Producing agglomerated. J. E. Moose. 2,414,969; Jan. 28.
- Wattmeter, Radio frequency. G. H. Brown and R. A. Bierwirth. 2,416,977; Mar. 4.
- Wattmeter, Super-high-frequency. J. Evans. 2,427,094; Sept. 9.
- Wattmeter, Tuned microwave. H. E. Webber. 2,419,613; Apr. 29.
- Wave analyzing system, Electrical. D. D. Grieg. 2,428,021; Sept. 30.
- Wave detector, Seismic. G. B. Loper. 2,428,168; Sept. 30.
- Wave filter. W. P. Mason. 2,414,115; Jan. 14.
- Wave filter. H. J. McSkimin. 2,429,639; Oct. 28.
- Wave front potential for control of electric discharge devices, Means producing a steep. J. A. Augier. 2,428,604; Oct. 7.
- Wave generation, Saw-tooth. S. H. M. Dodington. 2,416,292; Feb. 25.
- Wave guide. H. J. Heim. 2,414,376; Jan. 14.
- Wave guide construction. M. H. Johnson, W. H. Ratliff, Jr., and W. W. Hansen. 2,433,368; Dec. 30.
- Wave guide for high-frequency electric currents. D. T. Hollingsworth. 2,416,177; Feb. 18.
- Wave guide system. J. R. Whinnery. 2,422,058; June 10.
- Wave meter. S. D. Lavoie. Re. 22,894; July 1.
- Wavemeter for centimeters waves. V. D. Landon. 2,423,506; July 8.
- Wave navigation device, Reflected. R. C. Sanders, Jr. 2,420,016-17; May 6.
- Wave radiator, Electromagnetic. E. O. Willoughby. 2,423,073; June 24.
- Wave receiver, Angle modulation. W. R. Koch. 2,413,977; Jan. 7.
- Wave sensitive and wave front detecting apparatus. A. McL. Nicolson. 2,427,569; Sept. 16.
- Wave separator. J. R. Woodyard. 2,423,866; July 15.
- Wave signal translating arrangement. H. A. Wheeler. 2,421,138; May 27.
- Wave-signal translating system. A. V. Loughren. 2,420,753; May 20.
- Wave signaling device, Compressional. A. C. Keller. 2,417,829-30; Mar. 25.
- Wave transmission network. T. R. Finch and D. A. McLean. 2,416,297; Feb. 25.
- Wave transmission network. T. R. Finch and D. A. McLean. 2,416,683; Mar. 4.
- Wave transmission networks. W. P. Mason. 2,426,633; Sept. 2.
- Wave transmission system. F. S. Farkas. 2,417,069; Mar. 11.
- Wave transmitting or receiving device, Compressional. E. E. Turner, Jr. 2,422,707; June 24.
- Wax applicator device, Liquid. P. Hodshon. 2,432,015; Dec. 2.
- Wax-applying device. R. L. Sarra. 2,429,429; Oct. 21.
- Wax bite rim former. P. G. Curren. 2,417,812; Mar. 25.
- Wax emulsions. J. O. Handy. 2,424,952; July 29.
- Wax extraction, Sugar cane. F. H. Rhodes and O. J. Swenson. 2,428,813; Oct. 14.
- Wax injector. B. Spanier. 2,422,990; June 24.
- Wax-oil separation. A. H. Schutte. 2,429,430; Oct. 21.
- Wax seal for floors and applying the same. D. W. Bray. 2,430,490; Nov. 11.
- Waxes, Refining. R. A. Macke and H. J. Zoeller. 2,429,727; Oct. 28.
- Waxing apparatus. K. H. Recker. 2,430,187; Nov. 4.
- Weapon, Defense. J. Osses. 2,432,791; Dec. 16.
- Wearing apparel. E. H. Hillman. 2,418,176; Apr. 1.
- Wearing apparel, Article of. H. E. Smith. 2,417,787; Mar. 18.
- Weather prediction with ultra high frequency radio waves. G. S. Wickizer. 2,421,730; June 3.
- Weather station. G. S. Miles. 2,433,288; Dec. 23.
- Weatherstrip, Composite. W. R. Matheny. 2,419,322; Apr. 22.
- Weather stripping and sash control. J. M. Snider. 2,426,567; Aug. 26.
- Weaving effects by variable warp tensioning means, Production of. A. Lanz. 2,417,204; Mar. 11.
- Weaving on looms with gripper shuttles, Method and device. A. Moessinger. 2,420,380; May 13.
- Web and making same, Bent corrugated. W. A. Weightman. 2,417,960; Mar. 25.
- Web controlled indicator. T. L. Corwin. 2,418,464; Apr. 8.
- Web surfaces, Coating. T. G. Leek. 2,414,313; Jan. 14.
- Welds, Drying. B. Offen. 2,414,891; Jan. 28.
- Wedge for tool handles. H. La France. 2,423,893; July 15.
- Wedge, Variable elevation. E. J. Schlatter. 2,428,435; Oct. 7.
- Welding device. V. G. Padgett. 2,428,238; Sept. 30.
- Weed killer. H. G. M. Fischer. 2,414,640; Jan. 21.
- Weed remover. S. F. and D. G. Gaspro. 2,420,944; May 20.
- Weed remover. J. A. Roller. 2,422,929; June 24.
- Weeding tool. S. E. Kennedy. 2,419,719; Apr. 29.
- Weft detecting system for looms. O. V. Payne. 2,432,171; Dec. 9.
- Weft detecting system for looms, Electric. V. F. Sepavich and J. C. Manooch. 2,431,650; Nov. 25.
- Weft detecting system for looms, Electric. R. G. Turner. 2,433,174; Dec. 23.
- Weft detector for looms, Electric. C. B. Keenan. 2,422,911; June 24.
- Weft stop motion for circular looms. H. Pelcé. 2,433,479; Dec. 30.
- Weft straightener. R. W. Vose and C. H. Plummer. 2,427,753; Sept. 23.
- Wefts of woven textile fabrics, Method and apparatus for the straightening of the. L. C. Nield. 2,421,575; June 3.
- Weighing apparatus. H. D. Isenberg. 2,419,217; Apr. 22.
- Weighing machine. A. Sowden. 2,430,622; Nov. 11.
- Weighing mechanism. F. A. Nichols. 2,433,291; Dec. 23.
- Weight construction. W. L. Zink, V. O. Hauswirth, and J. M. Geistwhite. 2,425,057; Aug. 5.
- Weight, Fishing. M. J. Meek. 2,428,497; Oct. 7.
- Weight operated switch. T. W. Scifres. 2,428,246; Sept. 30.
- Weight, Shuffleboard. E. H. Tjomsland. 2,425,966; Aug. 19.
- Weighting mechanism, Top roll. V. A. Burnham. 2,430,706; Nov. 11.
- Weighting motions for the drafting rollers of preparatory and spinning machines. J. Noguera. 2,425,264; Aug. 5.
- Weld analyzer. F. L. Moncher. 2,430,237; Nov. 4.
- Weld fabricated trunnion for landing gear. D. W. Sherman. 2,433,630; Dec. 30.
- Weld fabricated yoke. D. W. Sherman. 2,433,631; Dec. 30.
- Welded engine frame construction. E. Chapman. 2,416,045; Feb. 18.
- Welded joint. K. V. Hart. 2,425,470; Aug. 12.
- Welded structure. C. A. Adams and H. A. Strickland, Jr. 2,415,573; Feb. 11.
- Welded structures, Stress relief of. H. E. Kennedy. 2,429,320; Oct. 21.
- Welder, Arc. S. J. Murcek and R. W. Price. 2,424,324; July 22.
- Welder, Compensated arc. E. A. Salay. 2,429,075; Oct. 14.
- Welder construction, Flash. M. M. Seeloff. 2,430,787; Nov. 11.
- Welder handle. V. R. Johnson and L. W. Wachter. 2,423,324; July 1.
- Welder handle. L. W. Wachter and A. Kimber. 2,422,812; June 24.
- Welding. H. T. Herbst. 2,414,874; Jan. 28.
- Welding apparatus. A. W. Baird. 2,432,495; Dec. 16.
- Welding apparatus. H. H. Hansen and C. E. Smith. 2,423,067; June 24.
- Welding apparatus. K. V. Hart. 2,417,075; Mar. 11.
- Welding apparatus. S. Pitt and D. V. Waters. 2,418,951; Apr. 15.
- Welding apparatus, Arc. J. M. Tyrner. 2,422,811; June 24.
- Welding apparatus, Electric. G. Gilliver. 2,423,096; July 1.
- Welding apparatus, Electropercussive. R. A. Weinhardt and H. J. Bowman. 2,419,749; Apr. 29.
- Welding apparatus, Multiflame. H. T. Herbst. 2,414,873; Jan. 28.
- Welding apparatus, Pressure. R. S. Kerns. 2,421,070; May 27.
- Welding assembly. J. A. Fotle. 2,433,354; Dec. 30.
- Welding assembly. J. M. Goulding. 2,423,811; July 8.
- Welding cable. F. S. Wreford. 2,433,588; Dec. 30.
- Welding carbon to molybdenum. H. P. Yockey and J. M. Nuding. 2,431,975; Dec. 2.
- Welding device, Permissive. W. J. Trott. 2,430,260; Nov. 4.
- Welding, Electric resistance. J. Struk and R. W. Good. 2,422,756; June 24.
- Welding electrode. H. J. Stretton. 2,432,048; Dec. 2.
- Welding electrode holder. W. J. Koinzan. 2,432,019; Dec. 2.
- Welding electrode holder. H. R. Kruitbosch. 2,429,825; Oct. 28.
- Welding electrode holder. K. L. Smith. 2,430,536; Nov. 11.
- Welding electrode holder. D. T. and D. D. Smout. 2,421,723; June 3.
- Welding equipment. A. E. House. 2,428,161; Sept. 30.
- Welding machine. W. Morton and R. M. Murray, Jr. 2,416,454; Feb. 25.
- Welding machine. L. E. Nichols. 2,426,280; Aug. 26.
- Welding machine. C. S. Seltzer. 2,414,905; Jan. 28.



- Welding machine. L. Trombetta. 2,427,696; Sept. 23.  
 Welding machine, Electric. F. E. Taylor. 2,419,921; Apr. 29.  
 Welding mechanism. C. Bruno. 2,419,817; Apr. 29.  
 Welding method. W. M. Cohn. 2,416,379; Feb. 25.  
 Welding method and apparatus therefor. D. Sciaky. 2,415,708; Feb. 11.  
 Welding or cutting metals by hydrogen-fluorine flames. H. F. Priest and A. V. Grosse. 2,421,649; June 3.  
 Welding rod. W. W. Edens. 2,430,419; Nov. 4.  
 Welding rod holder. T. K. Checkos. 2,433,431; Dec. 30.  
 Welding system. C. G. Smith. 2,428,390; Oct. 7.  
 Welding tool. J. U. Garibay. 2,416,872; Mar. 4.  
 Well casing perforations and well holes by explosives, Washing and cleaning. F. I. Alexander. 2,414,349; Jan. 14.  
 Well cementing apparatus. J. R. Baker. 2,429,912; Oct. 28.  
 Well cementing apparatus. C. M. O'Leary. 2,416,842; Mar. 4.  
 Well corrosion, Inhibiting. P. L. Menaui. 2,426,317; Aug. 26.  
 Well drilling device, Hydraulic. E. Merten. 2,422,031; June 10.  
 Well drilling mud and process. N. E. Martello. 2,414,381; Jan. 14.  
 Well flow control. J. H. Moore. 2,423,944; July 15.  
 Well head, Circulating. A. J. Penick. 2,426,743; Sept. 2.  
 Well logging. W. M. Rust, Jr. 2,414,899; Jan. 28.  
 Well logging apparatus. G. Herzog. 2,433,554; Dec. 30.  
 Well pipe perforations, Determination of. J. Grant and J. J. Santiago. 2,416,441; Feb. 25.  
 Well pressure gauge. W. R. Postlewaite. 2,421,907; June 10.  
 Well pumping equipment. A. G. Smith. 2,429,848; Oct. 28.  
 Well screen and perforation cleaner. W. Tarkington. 2,427,311; Sept. 9.  
 Well surveying device. G. L. Kothny. 2,424,358; July 22.  
 Well surveying device. G. A. Smith. 2,414,702; Jan. 21.  
 Wells, Cementing. C. E. Reistle and G. E. Cannon. 2,421,434; June 3.  
 Wells, Completing. A. D. Garrison. 2,427,848; Sept. 23.  
 Wells, Treating. G. L. Ratcliffe. 2,414,668; Jan. 21.  
 Welt hold-down. C. W. Baker. 2,428,061; Sept. 30.  
 Welt turning mechanism and turning welts. G. Bitzer. 2,431,160; Nov. 18.  
 Welt turning mechanism in straight bar knitting machines. W. A. Cooper and W. G. MacDonald. 2,428,514; Oct. 7.  
 Welting, Heavy-edge. W. C. Vizard. 2,427,984; Sept. 23.  
 Wet spinning of acrylonitrile polymers. W. W. Watkins. 2,426,719; Sept. 2.  
 Wheat flour and like milled products, Bleaching of. B. D. Ingels. 2,433,611; Dec. 30.  
 Wheatstone bridge meter. G. N. Kamm. 2,432,199; Dec. 1.  
 Wheel: See—  
 Abrasive wheel. Resilient vehicle wheel.  
 Axially adjustable wheel. Reversible wheel.  
 Buffing wheel. Roller skate wheel.  
 Centrifugally expandible. Roulette wheel.  
 abrasive wheel. Safety wheel.  
 Demountable wheel. Speed equalizing landing  
 Expandable wheel. wheel.  
 Fifth wheel. Spice wheel.  
 Fluid power wheel. Spring wheel.  
 Folding vehicle wheel. Steering wheel.  
 Impregnated abrasive wheel. Thread grinding wheel.  
 Lower fifth wheel. Track wheel.  
 Motor wheel. Traction-increasing wheel.  
 Motorized wheel. Triple wheel.  
 Nose wheel. Turbine wheel.  
 Resilient metal wheel. Vehicle wheel.  
 Wheel. P. G. Gilbert. 2,431,802; Dec. 2.  
 Wheel. R. N. Riblet. 2,418,481; Apr. 8.  
 Wheel. O. C. Schmitz. 2,414,172; Jan. 14.  
 Wheel. A. O. Williams. 2,418,002; Mar. 25.  
 Wheel and axle unit. E. H. Mortag. 2,424,578; July 29.  
 Wheel and brake, Airplane. T. Barish. 2,417,854; Mar. 25.  
 Wheel and coupler assembly, Gauge. J. Morkoski. 2,420,551; May 13.  
 Wheel and shaft assembly means. G. H. Froelich. 2,421,254; May 27.  
 Wheel and steering device, Trailer front. F. C. Burt. 2,430,906; Nov. 18.  
 Wheel and traction belt for road vehicles, Drive. K. W. Couse. 2,426,342; Aug. 26.  
 Wheel assembly, Dual. C. S. Ash. 2,425,856; Aug. 19.  
 Wheel assembly for tractors, Caster. E. D. De Witt. 2,425,516; Aug. 12.  
 Wheel assembly for wagons or trailers, Swivelling front. J. A. Schaeffer. 2,432,253; Dec. 9.  
 Wheel attaching means. B. T. Grobowski. 2,432,621; Dec. 16.  
 Wheel attachments for boats. W. A. West. 2,421,671; June 3.  
 Wheelbarrow. M. F. Cheek. 2,426,081; Aug. 19.  
 Wheelbarrow, Collapsible. C. H. Bates. 2,422,331; June 17.  
 Wheelbarrow, Folding. R. E. Sinclair. 2,431,834; Dec. 2.  
 Wheel bracing, Blower. C. I. Place. 2,424,501; July 22.  
 Wheel brake apparatus. H. J. Butler. 2,428,552; Oct. 7.  
 Wheel checking device, Railway. M. W. Gieskieng. 2,429,266; Oct. 21.  
 Wheel construction for trailers, Offset. C. J. O'Neill. 2,420,794; May 20.  
 Wheel cover. G. A. Lyon. 2,421,383; June 3.  
 Wheel cover. G. A. Lyon. 2,421,385-6; June 3.  
 Wheel cover. G. A. Lyon. 2,421,755; June 10.  
 Wheel cover. G. A. Lyon. 2,422,689; June 24.  
 Wheel cover. G. A. Lyon. 2,426,627; Sept. 2.  
 Wheel cover. G. A. Lyon. 2,432,530-1; Dec. 16.  
 Wheel device, Stabilized castering. L. Kalvin. 2,425,246; Aug. 5.  
 Wheel dresser, Diamond. E. Brocker. 2,422,220; June 17.  
 Wheel dresser, Grinding. R. E. Dahl. 2,428,786; Oct. 14.  
 Wheel dresser, Grinding. F. J. Henkel. 2,425,095; Aug. 5.  
 Wheel feeding mechanism, Grinding. J. I. Garside. 2,419,133; Apr. 15.  
 Wheel for matrix composing machines, Star. H. Ellis. 2,431,031; Nov. 18.  
 Wheel for vehicles, Fifth. H. L. Thompson. 2,416,502; Feb. 25.  
 Wheel gear. R. H. Musser and L. J. White. 2,424,941; July 29.  
 Wheel hub, Cycle. W. Brown. 2,430,705; Nov. 11.  
 Wheel locking mechanism, Fifth. J. Stephen. 2,429,532; Oct. 21.  
 Wheel member, Ornamental. G. A. Lyon. 2,415,829; Feb. 18.  
 Wheel mounting. C. G. Strandlund. 2,415,224; Feb. 4.  
 Wheel mounting for tank type suction cleaners, Adjustable. E. A. French. 2,433,356; Dec. 30.  
 Wheel of variable diameter. E. H. Aubert. 2,421,368; June 3.  
 Wheel protector. I. R. Plant and E. F. Miltenberger. 2,428,469; Oct. 7.  
 Wheel retainer, Quick-acting and self-locking. L. F. Youngworth. 2,416,605; Feb. 25.  
 Wheel revolving means. H. T. Austin. 2,418,064; Mar. 25.  
 Wheel rotating mechanism. E. W. Volk. 2,425,583; Aug. 12.  
 Wheel runner. E. W. Lersch. 2,418,038; Mar. 25.  
 Wheel spoke nut driving machine. L. A. Smith. 2,422,593; June 17.  
 Wheel structure. G. A. Lyon. 2,414,824-5; Jan. 28.  
 Wheel structure. G. A. Lyon. 2,426,109; Aug. 19.  
 Wheel structure. R. R. Ware, Jr. 2,424,784; July 29.  
 Wheel structure, Fabricated. H. L. Mueller. 2,424,704; July 29.  
 Wheel suspension. R. Zavarella. 2,425,853; Aug. 19.  
 Wheel suspension for vehicles. W. L. Dawson. 2,428,148; Sept. 30.  
 Wheel suspension for vehicles. F. F. Linn. 2,426,513; Aug. 26.  
 Wheel suspension, Knee action rear. J. J. Carr. 2,420,462; May 13.  
 Wheel trenching machine. G. A. Vaughn. 2,423,132; July 1.  
 Wheel trim. G. A. Lyon. 2,420,321; May 13.  
 Wheel unit, Reversible mountable gauge. W. H. Silver. 2,426,529; Aug. 26.  
 Wheel with axially adjustable rim. F. T. Court. 2,432,385; Dec. 9.  
 Wheel wobbling structure, Road roller. J. R. Ritchie. 2,432,683; Dec. 16.  
 Wheeled load lifting vehicle. J. D. Coldwell. 2,429,746; Oct. 28.  
 Wheeled mobile container apparatus. G. Martin. 2,425,107; Aug. 5.  
 Wheels, Making turbine. S. C. Watson. 2,432,185; Dec. 9.  
 Wheels, Mounting of. T. Clark. 2,418,967; Apr. 15.  
 Whiffletree hook. J. C. Holte. 2,422,731; June 24.  
 Whistle, Animated. M. A. Strumor. 2,430,088; Nov. 4.  
 Wick holder. N. C. H. Muench. 2,429,766; Oct. 28.  
 Wide-band tuner, Ultra high frequency. E. O. Selby. 2,427,110; Sept. 9.  
 Wide range variable frequency generator. V. D. Landon. 2,422,424; June 17.  
 Wiener roasting clamp. J. C. Hamilton. 2,425,799; Aug. 19.  
 Winch. H. D. Kadz. 2,417,502; Mar. 18.  
 Winch. J. H. Wilson. 2,422,274; June 17.  
 Winch construction. A. B. Schultz. 2,423,906; July 15.  
 Winch for life boats. A. J. Prince. 2,427,877; Sept. 23.  
 Winch, Safety scaffold. J. M. Benson. 2,424,910; July 29.  
 Winch, Towing. A. A. Johnson. 2,417,166; Mar. 11.  
 Wind and water motor. U. L. Courson. 2,428,515; Oct. 7.  
 Wind instrument. C. F. W. Forssberg. Re. 22,949; Dec. 16.  
 Windmill. A. Stag. 2,417,022; Mar. 4.  
 Wind motor. S. R. Du Brie. 2,431,111; Nov. 18.  
 Wind operated rotatable sign. J. J. Pearson. 2,417,122; Mar. 11.  
 Winder drive. R. Tyler. 2,425,496; Aug. 12.  
 Winding apparatus. V. Sager. 2,433,787; Dec. 30.  
 Winding apparatus, Strand. F. J. Joyce. 2,421,269; May 27.



- Winding appliance. D. E. Turner. 2,423,533; July 8.  
 Winding control means for magnetic recording and reproducing apparatus. S. J. Begun. 2,419,476; Apr. 22.  
 Winding device, Transfer tail. A. W. Keight and T. E. Carlson. 2,428,081; Sept. 30.  
 Winding element, Waterproof. F. J. Sigmund and W. S. Hlavin. 2,428,816; Oct. 14.  
 Winding machine. E. J. Abbott and W. L. Perry. 2,426,167-8; Aug. 26.  
 Winding machine. L. Campbell. 2,432,722; Dec. 16.  
 Winding machine. L. A. Hickok. 2,430,507; Nov. 11.  
 Winding machine. H. J. McDermott. 2,414,054; Jan. 7.  
 Winding machine. G. W. Thelin. 2,430,746; Nov. 11.  
 Winding machine, Coil. R. M. Conklin. 2,430,105-6; Nov. 4.  
 Winding machine, Yarn. L. H. Bateman. 2,419,003; Apr. 15.  
 Winding means for spring-actuated clocks, Electrically operated. P. W. Rosenfeld. 2,420,097; May 6.  
 Windshield and mounting. N. A. Schassberger. 2,423,623; July 8.  
 Windshield cleaner. A. C. Scinta. 2,418,559; Apr. 8.  
 Windshield cleaner. M. Thomson. 2,417,575; Mar. 18.  
 Windshield deicing. H. A. Greenwald. 2,414,520; Jan. 21.  
 Windshield wiper. H. A. Ungerland. 2,422,761; June 24.  
 Windshield wiper and defroster. R. L. de Cordova. 2,416,572; Feb. 25.  
 Windshield wiper arm and blade connector. T. J. Smulski. 2,432,690-1; Dec. 16.  
 Windshield wiper units to arm units, Connecting. T. J. Smulski. 2,432,692; Dec. 16.  
 Window. E. S. Johnson. 2,430,124; Nov. 4.  
 Window and sash unit or assembly. L. H. Gatter. 2,429,054; Oct. 14.  
 Window and screen, Combined. L. Royak. 2,432,808; Dec. 16.  
 Window balancer. E. Peremi and H. Weimann. 2,426,945; Sept. 2.  
 Window blind lock. C. C. McDonald. 2,428,170; Sept. 30.  
 Window blind structure. M. Green. 2,422,407; June 17.  
 Window catch, Burglar proof. J. C. Fitzgerald. 2,416,166; Feb. 4.  
 Window channel. F. A. Best. 2,428,006; Sept. 30.  
 Window channel. F. A. Best. 2,433,333; Dec. 30.  
 Window cleaner. O. H. Berger. 2,413,854; Jan. 7.  
 Window construction. R. B. Anderson. 2,421,309; May 27.  
 Window construction. E. L. Daab. 2,418,014; Mar. 25.  
 Window construction, Storm. W. M. Krantz. 2,427,915; Sept. 23.  
 Window control, Auto. W. S. Wilkison. 2,417,534; Mar. 18.  
 Window drapery construction. C. G. Soff. 2,430,959; Nov. 18.  
 Window fastener. D. Spivak. 2,416,127; Feb. 18.  
 Window guard. J. L. Mayer. 2,422,840; June 24.  
 Window guard fastener. D. McDonald. 2,424,361; July 22.  
 Window lock. J. Keane. 2,431,178; Nov. 18.  
 Window lock. J. Ventura. 2,432,637; Dec. 16.  
 Window lock. B. Wankel, Jr., and H. Herzberg. 2,415,922; Feb. 18.  
 Window locking device. R. Krasberg. 2,414,153; Jan. 14.  
 Window louvre. W. Faulkner. 2,419,635; Apr. 29.  
 Window, Metal supported glass. D. Alpert. 2,419,049; Apr. 15.  
 Window mirror display. F. Shipman. 2,416,666; Mar. 4.  
 Window operator. A. Rappl. 2,432,799; Dec. 16.  
 Window or screen hanger, Storm. E. E. Peavey. 2,426,842; Sept. 2.  
 Window pane and the like. H. E. Rudy. 2,419,287; Apr. 22.  
 Window panel, Heated. C. E. Stroud and H. Marini. 2,416,778; Mar. 4.  
 Window regulator mechanism. J. B. Parsons. Re. 22,933; Nov. 11.  
 Window, Safety reversible. L. I. Alperin. 2,423,675; July 8.  
 Window sash. E. Albano. 2,419,524; Apr. 29.  
 Window sash. H. W. Paul. 2,416,269; Feb. 18.  
 Window sash anchoring mechanism. L. A. Macklanburg. 2,428,976; Oct. 14.  
 Window sash control. C. E. Nygren. 2,416,946; Mar. 4.  
 Window sash retaining device. S. Galuska. 2,423,495; July 8.  
 Window screen and ventilator. M. Garlinski. 2,414,592; Jan. 21.  
 Window screen hanger. E. Fixter. 2,415,682; Feb. 11.  
 Window seat. W. J. Workman. 2,420,635; May 13.  
 Window shade and curtain bracket, Adjustable. W. W. Pye. 2,420,977; May 20.  
 Window, Storm. V. F. Espenschied. 2,432,000; Dec. 2.  
 Window, Storm. W. M. Krantz. 2,430,059; Nov. 4.  
 Window structure. R. Blanck. 2,416,511; Feb. 25.  
 Window structure, Casement. W. A. Albrecht. 2,430,970; Nov. 18.  
 Window system. A. Rappl. 2,422,984; June 24.  
 Window unit for motor vehicles, Power-operated. A. Rappl. 2,415,565; Feb. 11.  
 Window washer's seat. H. J. Todd. 2,426,070; Aug. 19.  
 Window wiper brace. W. J. Buford. 2,417,233; Mar. 11.  
 Windower attachment. H. J. Fienhold. 2,423,303; July 1.  
 Wine, grape juice, and other fruit juices, Chillingproofing and stabilizing. M. J. Cohen. 2,419,628; Apr. 29.  
 Wing-body structure for airplanes. M. Watter. 2,425,499; Aug. 12.  
 Wing flap extending mechanism. F. W. A. Knoll. 2,423,984; July 15.  
 Wing for airplanes and the like. T. A. Banning, Jr. 2,426,334; Aug. 26.  
 Wing mounted flap. R. T. Smith. 2,415,710; Feb. 11.  
 Wing-mounted jet-propulsion system with controllable discharge outlet. C. A. Meyer and D. Bradbury. 2,420,323; May 13.  
 Wing pitch changing mechanism, Rotary. R. J. Woods. 2,427,939; Sept. 23.  
 Wing structure for airplanes, Movable. D. A. Day. 2,428,557; Oct. 7.  
 Wing structure for gliders. L. J. Marhofer. 2,430,643; Nov. 11.  
 Wing structure, Rotary. W. E. Hunt. 2,420,174; May 6.  
 Wiper and valve for register box windows. C. M. McCord. 2,423,604; July 8.  
 Wiper blade connector mechanism. J. W. Anderson. 2,432,693; Dec. 16.  
 Wiper for alighting gear, Rod. A. P. Fall. 2,431,796; Dec. 2.  
 Wiper for can body makers, Solder. F. J. O'Brien, Jr., and H. Gehrmann. 2,432,788; Dec. 16.  
 Wiper for rotary electrodes. H. B. and R. H. Johnson. 2,428,224; Sept. 30.  
 Wiper, Heated. L. Marick. 2,427,502; Sept. 16.  
 Wiper, Oil gauge. H. B. Wright. 2,422,512; June 17.  
 Wire, Adjustable Bowden. E. A. Rockwell. 2,427,623; Sept. 16.  
 Wire and marine serving mallet, One-man operated combination. J. C. Wingate. 2,419,241; Apr. 22.  
 Wire and strip electroprocessing machine, Continuous. C. G. Miller. 2,431,065; Nov. 18.  
 Wire coating die. C. A. Bailey. 2,433,642; Dec. 30.  
 Wire drawing dies, Making. N. Borne. 2,422,612; June 17.  
 Wire feed mechanism, Multiple. A. E. Vandersee. 2,414,181; Jan. 14.  
 Wire hood forming machine. W. J. Archer. 2,416,672; Mar. 4.  
 Wire inserting apparatus, Support. J. E. Stone and E. Q. Adams. 2,431,208; Nov. 18.  
 Wire insulation cutting tool. C. D. Bell. 2,421,049; May 27.  
 Wire, Leading-in. C. N. Huntley and J. A. Campbell. 2,427,727; Sept. 23.  
 Wire, Making fiber insulated. C. J. Krogel. 2,416,394; Feb. 25.  
 Wire on energized connectors, Method and apparatus for wrapping. H. W. Bodendieck. 2,414,136; Jan. 14.  
 Wire storage unit, Magnetic. D. K. Gannett. 2,421,750; June 10.  
 Wire-stringing material. C. H. Clement and R. H. Armstrong. 2,413,909; Jan. 7.  
 Wire stripping apparatus. C. B. Beuschel. 2,415,669; Feb. 11.  
 Wire structure for apparatus towing, Stranded. W. T. Peirce. 2,418,192; Apr. 1.  
 Wire swivel. R. R. Rundell. 2,423,050; June 24.  
 Wire take-up reel. S. A. Moore. 2,416,708; Mar. 4.  
 Wire tensioning device. D. Mapes. 2,426,631; Sept. 2.  
 Wire tensioning device for coil winding machines. O. Wirth. 2,419,808; Apr. 29.  
 Wire terminal turning and binding tool. W. H. Frank. 2,430,119; Nov. 4.  
 Wire twisting apparatus, Safety. H. H. Eichorst. 2,425,871; Aug. 19.  
 Wire twisting hand tool. J. J. Greer and A. Luongo. 2,416,002; Feb. 18.  
 Wire twisting tool. R. M. Van de Veer. 2,433,494; Dec. 30.  
 Wire, Upholstery guy. M. J. Bloch. 2,433,418; Dec. 30.  
 Wire wrapping machine. C. M. Bell. 2,423,289; July 1.  
 Wire wrench. E. G. Schwyn. 2,424,370; July 22.  
 Wires, Installing aerial line. J. A. Carr and A. L. Fox. 2,430,451; Nov. 11.  
 Wires, Making contact. R. A. Ehrhardt and R. G. Humphrey. 2,429,222; Oct. 21.  
 Wires, particularly fine wires used in the manufacture of electric coils, Joining of. G. Gilliver. 2,414,461; Jan. 21.  
 Wires to metal surfaces, Attaching. H. Wolfson and S. C. Shepard. 2,421,047; May 27.  
 Wiring device, Interchangeable insertion type. O. Dorfman. 2,428,110; Sept. 30.  
 Wiring system for outdoor auto theatres. R. W. Smith. 2,410,103; May 6.  
 Wobble plate engine. F. C. Howard. 2,424,660; July 29.  
 Woodcutting device. E. J. Zindrick. 2,423,807; July 8.  
 Wood, Extracting resinous. R. C. Palmer. 2,424,628; July 29.  
 Wood, Finishing of. F. R. Stover. 2,431,148; Nov. 18.  
 Wood for the rapid maturation and aging of table wines, Processing. E. T. Krebs. 2,415,431; Feb. 11.  
 Wood for the rapid maturation of whiskey and other alcoholic liquors and wines, Processing. E. T. Krebs. 2,417,505; Mar. 18.  
 Wood impregnating solutions containing heavy metal compounds with arsenic and chromic acids. B. O. Hager. 2,432,007; Dec. 2.



- Woodpecker drill. R. E. Barr. 2,424,138; July 15.  
 Wood product, Coated. A. R. Welch. 2,419,614; Apr. 29.  
 Wood pulp prior to esterification, Activation of. J. H. Holloway, R. S. Tabke, and A. N. Parrett. 2,415,949; Feb. 18.  
 Wood pulp product and producing same, Chemically prepared. P. H. Schlosser and K. R. Gray. 2,423,469; July 8.  
 Wood tar and charcoal by successive direct and indirect heating steps, Producing. M. Melamid. 2,429,272; Oct. 21.  
 Wood treatment. R. E. Hamill. 2,414,808; Jan. 28.  
 Wood-trimming apparatus. J. H. Milward. 2,415,601; Feb. 11.  
 Wood turning lathe clamp. V. Gwatkin. 2,429,879; Oct. 28.  
 Wool, Shrinkproofing. M. L. Ward. 2,414,704; Jan. 21.  
 Wool type fabric. W. S. Nutter. Re. 22,878; May 13.  
 Wool-washing effluent, Treatment of. F. Totney. 2,421,094; May 27.  
 Work centering tool. R. A. Johnstone. 2,430,513; Nov. 11.  
 Work clamp. R. F. Clutter. 2,420,165; May 6.  
 Work clamp and template holder for hinge-seat cutting. W. B. Zern. 2,427,081; Sept. 9.  
 Work handling apparatus. R. E. Cox. 2,417,678; Mar. 18.  
 Work holder. T. E. Mead. 2,428,496; Oct. 7.  
 Work holder. J. T. Obecný. 2,415,520; Feb. 11.  
 Workholder, Circular article. G. F. C. Burke. 2,432,137; Dec. 9.  
 Workholder for use in grinding and polishing transmission surfaces of roof prisms. J. H. McLeod and J. R. Turner. 2,420,606; May 13.  
 Work holding and fabricating apparatus. W. J. Grabner. 2,427,133; Sept. 9.  
 Work holding apparatus. T. E. Mead. 2,421,957; June 10.  
 Work holding means. R. W. Hodge. 2,430,613; Nov. 11.  
 Work-holding means for grinding machines. R. S. Beverlin. 2,413,678; Jan. 7.  
 Work holding mechanism. H. K. Hecker. 2,426,095; Aug. 19.  
 Work-marking assembly for machine tools. E. T. Nord. 2,420,613; May 13.  
 Workpiece treating unit. T. M. Shea. 2,432,131; Dec. 9.  
 Work spindle mounting. T. H. Ljunggren. 2,433,518; Dec. 30.  
 Work support. R. E. Gordinier. 2,424,090; July 15.  
 Work support. J. H. Moore. 2,423,201; July 1.  
 Work support. J. F. Standish. 2,428,047; Sept. 30.  
 Work-supporting apparatus for welding machines. C. A. La Plante. 2,433,464; Dec. 30.  
 Working pass control for rolling mills. E. A. Pauls. 2,430,410; Nov. 4.  
 Worktable for stamping and embossing machines. R. L. Greenleaf. 2,421,260; May 27.  
 Worktable having magnetic clamp means, Machine. G. W. Rose. 2,421,716; June 3.  
 Worsted type of fabric. W. S. Nutter. 2,416,116; Feb. 18.  
 Wound armature for electric machines. V. A. Hoover. 2,427,282; Sept. 9.  
 Woven fabric and making the same. P. A. Preneta. 2,424,771; July 29.  
 Woven fabric article, Washable absorbent. R. C. Whitman. 2,413,934; Jan. 7.  
 Woven textile fabric. W. S. Nutter. 2,417,320; Mar. 11.  
 Wrap, Infant. E. Zito. 2,431,603; Nov. 25.  
 Wrapping device for newspapers, Portable. E. Sebastian. 2,426,749; Sept. 2.  
 Wrapping device, Rod. H. A. Tirrell. 2,430,892; Nov. 18.  
 Wrapping machine. B. A. Arvidson. 2,418,449; Apr. 8.  
 Wrapping machine. C. J. Malhiot. 2,426,314; Aug. 26.  
 Wrapping machine. E. S. Wollett. 2,414,282; Jan. 14.  
 Wrapping machine, Article. C. H. Petskeyes. 2,418,277; Apr. 1.  
 Wrapping machine, Bread. C. H. Petskeyes. 2,418,276; Apr. 1.  
 Wrapping mechanism. O. Fregeolle. 2,422,232; June 17.  
 Wrapping system, Box. J. S. Stokes. 2,425,210; Aug. 5.  
 Wrench: See—  
   Adjustable spanner wrench.  
   Adjustable wrench.  
   Cap removing socket wrench.  
   Chain wrench.  
   Flexible band jar wrench.  
   Gear driven socket wrench.  
   Impact wrench.  
   Ratchet wrench.  
   Screw top jar wrench.  
   Spanner wrench.  
   Steel barrel plug wrench.  
   Toggle actuated sliding jaw wrench.  
   Wire wrench.  
   Yielding ratchet torque wrench.  
 Wrench. M. J. Feiring. 2,426,191; Aug. 26.  
 Wrench. A. Partin. 2,417,377; Mar. 11.  
 Wrench. E. Schultz. 2,421,038; May 27.  
 Wrench for bottle and jar tops. J. R. Cook. 2,414,635; Jan. 21.  
 Wrench for relatively inaccessible threaded objects, Curved handle. E. M. Curtis. 2,426,763; Sept. 2.  
 Wrench for shielded spark plugs. J. P. Jones. 2,417,598; Mar. 18.  
 Wrench for waterproof watch cases. L. Ghiglieri. 2,417,926; Mar. 25.  
 Wrench for waterproof watches, Spanner. R. A. Williams. 2,418,999; Apr. 15.  
 Wrench with toggle actuated jaw. V. S. Ward and G. K. Hurlbut. 2,428,949; Oct. 14.  
 Wringer, Mop. G. V. Hutchins. 2,417,416; Mar. 18.  
 Wringer, Mop. W. Trostler. 2,417,276; Mar. 11.  
 Wrist watch attachment. R. P. Fleischner. 2,421,253; May 27.  
 Wrist watch band. I. Wolff. 2,415,781; Feb. 11.  
 Wrist watch regulator. F. Suttin. 2,414,618; Jan. 21.  
 Wristlet. F. R. Wulsin. 2,411,845; Jan. 28.  
 Writing device. H. Mossbach. 2,428,378; Oct. 7.  
 Writing instrument. L. J. Biro. 2,413,904; Jan. 7.  
 Writing instrument. L. J. Biro. 2,416,896; Mar. 4.  
 Writing instrument. I. Chesler. 2,432,061; Dec. 2.  
 Writing instrument. G. D. Cloutier. 2,428,960; Oct. 14.  
 Writing instrument. R. W. Randolph. 2,427,069; Sept. 9.  
 Writing instrument. R. W. Randolph. 2,428,854; Oct. 14.  
 Writing instrument, Ball-point. R. W. Randolph. 2,427,068; Sept. 9.  
 X-ray analysis apparatus. J. C. Luley. 2,432,913; Dec. 16.  
 X-ray apparatus, Short exposure. C. M. Slack. 2,420,844; May 20.  
 X-ray apparatus, Short exposure. C. M. Slack and L. F. Ehrke. 2,420,845; May 20.  
 X-ray marker. R. A. Rendich. 2,433,480; Dec. 30.  
 Xerogel, Producing easily pulverized. K. K. Kearby. 2,429,319; Oct. 21.  
 Xylidine, Production of. C. L. Brown. 2,432,087; Dec. 9.  
 Xylidine and toluene, Production of. R. M. Hill. 2,422,485; June 17.  
 Xylidine, Distillation of crude. A. K. Redený. 2,417,886; Mar. 25.  
 Xylidine, Stabilized. W. A. Herbst. 2,422,484; June 17.  
 Yarn. A. N. Oppenheim. 2,416,208-9; Feb. 18.  
 Yarn-advancing reel. A. L. Ewing. 2,428,703-4; Oct. 7.  
 Yarn-advancing reel. R. H. Stafford. 2,432,046; Dec. 2.  
 Yarn-advancing reel. R. W. Stone. 2,429,534; Oct. 21.  
 Yarn carrier. E. A. Feustel. 2,416,167; Feb. 18.  
 Yarn catcher, Coarse. W. H. Bussiere. 2,428,064; Sept. 30.  
 Yarn feeding mechanism. N. D. Sawyer. 2,432,685; Dec. 16.  
 Yarn guide. E. A. Feustel. 2,422,535; June 17.  
 Yarn guide, Adjustable. E. K. Whitener. 2,427,827; Sept. 23.  
 Yarn having the twist set therein with an unctuous solid. K. R. Brown. 2,418,752; Apr. 8.  
 Yarn holder support. C. Joseph. 2,432,904; Dec. 16.  
 Yarn laying guide of flat single bed knitting machine. G. Huber. 2,432,477; Dec. 9.  
 Yarn, Manufacture of. M. Hain. 2,413,967; Jan. 7.  
 Yarn, Manufacture of. M. Hain. 2,419,774; Apr. 29.  
 Yarn, Manufacture of synthetic. H. C. Naumann. 2,416,533; Feb. 25.  
 Yarn, Manufacturing viscose rayon. A. S. Brown. 2,433,733; Dec. 30.  
 Yarn packages in an electrostatic field, Method and apparatus for drying. A. S. Brown. 2,428,615; Oct. 7.  
 Yarn, Packaging and using. E. J. Abbott. 2,415,075; Feb. 4.  
 Yarn substitute for knitting or crocheting activities and the method of making the same. E. B. Knowles. 2,416,758; Mar. 4.  
 Yarn take-up. E. St. Pierre. 2,422,599; June 17.  
 Yarn-tension of take-up device, primarily for knitting machines. C. H. Wainwright. 2,423,630; July 8.  
 Yarns, Method of and apparatus for producing nubbed. A. Cavedon. 2,421,010; May 27.  
 Yielding ratchet torque wrench. F. Mossberg. 2,427,153; Sept. 9.  
 Yields in the extraction of corn proteins, Obtaining increased. C. D. Evans and C. W. Ofelt. 2,414,195; Jan. 14.  
 Yoke, Scanning and focusing. J. A. Buckbee. 2,414,925; Jan. 28.  
 Zein composition, Plasticized. L. D. Myers. 2,420,381; May 13.  
 Zein-containing solutions, Preparing. R. E. Coleman. 2,433,029; Dec. 23.  
 Zero-setting device for registers. K. C. Bugg. 2,419,762; Apr. 29.  
 Zinc depositing bath, Rapid. G. B. Hogaboom. 2,421,265; May 27.  
 Zinc dicyanamide, Preparation of. D. E. Nagy and B. C. Redmon. 2,418,476; Apr. 8.  
 Zinc from copper base alloys, Method of and apparatus for. F. F. Poland. 2,424,584; Oct. 21.  
 Zinc ores with HCl, Treatment of marmatitic. N. C. Christensen. 2,424,351; July 22.  
 Zinc oxides, Treating. J. H. Calbeck. 2,416,044; Feb. 18.  
 Zinc yellow pigments, Preparing. O. F. Tarr and M. Darrin. 2,415,394; Feb. 4.  
 Zirconium hydride, Production of. P. P. Alexander. 2,427,339; Sept. 16.  
 Zirconium silicate polishing material and preparing same. W. T. Maloney. 2,427,799; Sept. 23.  
 Zirconyl and hafnyl compounds and their production, Coordinated. E. Wainer. 2,424,262; July 22.



1947

# LIST OF DESIGN INVENTIONS

- Accessories for a cooking range, Combined top, back panel, and control. L. H. Wilson. 147,938; Nov. 18.
- Airplane. G. H. Altherr and N. E. Nelson. 147,171; July 22.
- Airplane. E. F. Burton and C. C. Wood. 147,836; Nov. 11.
- Airplane. E. H. Heinemann and L. J. Devlin. 146,221; Jan. 14.
- Airplane. W. C. Jamouneau. 147,791; Nov. 4.
- Airplane. W. H. McLauchlan. 146,924; June 10.
- Airplane. J. A. Shannon. 147,875; Nov. 11.
- Airplane. K. E. Smith and A. G. Tsongas. 147,876; Nov. 11.
- Airplane. L. E. Swanson. 146,993; June 24.
- Airplane. V. L. Volpicelli. 146,204; Jan. 7.
- Airplane. F. A. Wedberg and F. I. Steele. 146,240; Jan. 14.
- Airplane, Model. A. J. Klose. 146,941; June 17.
- Airplane, Remotely controlled target. N. F. McGaffey. 146,183; Jan. 7.
- Alphabet. A. G. Giegold, Jr. 146,430; Mar. 4.
- Alphabet for forming monograms or similar articles. V. T. Howard. 146,446; Mar. 11.
- Andiron. E. J. Burns. 147,957; Nov. 25.
- Andiron. H. E. Noble. 147,924; Nov. 18.
- Animal figure, Walking. R. A. Kropp. 146,720; Apr. 29.
- Applique, Embroidered. H. Kaufman. 146,970; June 24.
- Applique, Fabric. W. A. Horn. 148,240; Dec. 30.
- Apron. D. A. Haight. 147,550; Sept. 23.
- Apron. H. R. Hill. 147,652; Oct. 14.
- Ash tray. G. H. Decker. 146,703; Apr. 29.
- Ash tray. H. F. H. Fisher. 147,963; Nov. 25.
- Ash tray. B. N. Flickinger. 147,122; July 15.
- Ash tray. N. A. Karakashian. 148,168; Dec. 23.
- Ash tray. P. V. Rommel and J. A. French. 148,189; Dec. 23.
- Ash tray. W. Trautner. 146,780; May 13.
- Ash tray and cigarette holder, Combination. F. A. Lower. 146,770; May 13.
- Ash tray and holder for smokers' articles, Combined. C. B. Crane. 146,788; May 20.
- Ash tray and playing card receptacle, Combined. M. S. de Sarro. 146,302; Feb. 4.
- Ash tray or similar article. P. E. Bagur, Sr. 146,166; Jan. 7.
- Ash tray or similar article. E. L. Persons. 147,145-6; July 15.
- Atomizer. M. M. Katz. 147,854; Nov. 11.
- Atomizer. A. Schmutz. 147,872; Nov. 11.
- Atomizer. A. Schmutz. 148,038; Dec. 2.
- Attachment for vacuum cleaners, Demoting. R. E. Harvuot. 147,126; July 15.
- Automobile. J. E. Andreau. 146,206; Jan. 14.
- Automobile and airplane, Combination. A. Braeman. 146,847; June 3.
- Automobile grille panel. R. Cadwallader. 147,838; Nov. 11.
- Automobile headlamp lens housing and grille, Combined. R. Cadwallader. 147,837; Nov. 11.
- Automobile top. C. C. Wormer, III. 147,001; June 24.
- Badge. W. A. Horn. 148,241; Dec. 30.
- Badge. L. J. Kelly. 147,559; Sept. 23.
- Badge or similar article. H. W. Draper. 147,896; Nov. 18.
- Bag and tube support, Combined syringe. R. O. Ferguson. 147,402; Sept. 2.
- Bag for dust cloths, Figured. S. E. Kaplan. 147,588; Sept. 30.
- Bag for toys, Figured. S. E. Kaplan. 147,587; Sept. 30.
- Bag, Mail. S. E. Kaplan. 147,589; Sept. 30.
- Bag or the like, Shopping. E. Eisner. 147,494; Sept. 16.
- Ball rack or the like, Bowling. R. I. Anderson and B. Hoeker. 148,121-2; Dec. 23.
- Bank, Coin. R. V. Moran. 147,345-6; Aug. 19.
- Bank vault door and frame, Combined. W. E. Adams. 146,459; Mar. 18.
- Bar and radio combination, Portable. J. P. Troyan. 147,880; Nov. 11.
- Bar, Automobile grille. H. T. Bannister. 146,893; June 10.
- Bar, Automobile grille. R. Cadwallader. 146,535; Apr. 1.
- Bar, Automobile trim. R. Cadwallader. 146,534; Apr. 1.
- Bar, Dining. V. J. Crawford. 147,891; Nov. 18.
- Bar, Oil. E. G. Fossum. 146,647; Apr. 22.
- Bar, Oil. E. G. Fossum and F. L. Ayres. 146,646; Apr. 22.
- Bar, Portable. H. F. Robert. 148,188; Dec. 23.
- Barbecue, Portable. E. H. Jackson. 148,244; Dec. 30.
- Base, Candle. A. Bach. 148,043; Dec. 9.
- Base for a motion picture projector or the like. J. O. Reinecke. 148,091; Dec. 9.
- Base, Lamp. R. Q. Peck. 147,927; Nov. 18.
- Base, Table lamp. N. Ericsson. 147,721; Oct. 21.
- Bassinet. W. Maxwell. 146,865; June 3.
- Bathtub. J. Springwell. 148,195; Dec. 23.
- Battery charger. W. G. Schinske. 147,151; July 15.
- Battery charger or similar article. M. L. Pugh. 147,814; Nov. 4.
- Beater, Household food. L. J. Jagow. 146,363; Feb. 18.
- Bed, Child's. M. A. Kirkpatrick. 148,248; Dec. 30.
- Bed or similar article. G. E. Obrig. 146,379; Feb. 18.
- Bedstead. F. Ziegler. 147,941-3; Nov. 18.
- Belt. W. F. Cox. 147,744; Oct. 28.
- Belt. S. Platt. 147,928; Nov. 18.
- Bench or similar article, Vanity table. G. E. Obrig. 146,378; Feb. 18.
- Bicycle. J. C. Eubank. 148,055; Dec. 9.
- Bicycle and sidecar combination, Child's. H. E. Eisele. 147,229; Aug. 5.
- Binocular. V. E. Carbonara. 148,130; Dec. 23.
- Binoculars. R. W. Shields. 146,487; Mar. 18.
- Birdbath. C. A. Florio. 146,901; June 10.
- Blade, Fly swatter. H. S. Roemisch. 146,747; May 6.
- Blade, Fly-swatter. C. A. Siron. 146,489; Mar. 18.
- Block, Nursery. D. M. Dow. 146,174; Jan. 7.
- Blouse. V. Giovagnoni. 147,233; Aug. 5.
- Blouse. H. Newman. 146,771-3; May 13.
- Board, Game. H. L. Bradshaw. 146,344; Feb. 18.
- Board, Game. F. L. Brown. 147,955; Nov. 25.
- Board, Game. G. A. Inglis. 147,906; Nov. 18.
- Board, Game. M. M. Kastner. 146,829; May 27.
- Board, Game. W. G. Powell. 146,339; Feb. 11.
- Boat. W. S. Dix. 147,036; July 8.
- Boat. G. T. Mertes. 148,081; Dec. 9.
- Body for a hobbyhorse. C. D. Madsen. 148,177; Dec. 23.
- Body, Railway car. B. E. Jones. 148,024-6; Dec. 2.
- Body, Vehicle. J. H. Holan and H. J. Troche. 148,021; Dec. 2.
- Book end. F. Diamond. 147,433-4; Sept. 9.
- Bookend. F. H. Fisher. 147,496; Sept. 16.
- Book-end. R. L. MacDonald. 146,668; Apr. 22.
- Book end. F. M. Torrey. 147,480; Sept. 9.
- Book end and nutcracker, Combined. A. J. Hotz. 147,586; Sept. 30.
- Bookkeeping machine. J. Streng. 147,355; Aug. 19.
- Bookkeeping machine and stand, Combined. J. Streng. 148,259; Dec. 30.
- Boot, Felt. A. E. Pfeiffer. 147,506; Sept. 16.
- Boot or similar article. P. D. Earl. 146,763; May 13.
- Booth, Refreshment. M. O. Symons and R. Davis. 147,605; Sept. 30.
- Border or similar article, Wallpaper. A. Westrate. 146,532-33; Mar. 25.
- Bottle. J. L. Dunnoek. 146,351; Feb. 18.
- Bottle. H. Genske. 146,713; Apr. 29.
- Bottle. H. Genske. 146,905; June 10.
- Bottle. B. Lewis. 146,862; June 3.
- Bottle. B. Lewis. 147,911-12; Nov. 18.
- Bottle. M. W. Lowenstein. 147,014; July 1.
- Bottle. E. Scheemaeker. 146,525; Mar. 25.
- Bottle and cap, Combined. C. H. Burger. 148,047; Dec. 9.
- Bottle and container, Combined. B. Lewis. 147,858; Nov. 11.
- Bottle and diaper utility bag, Combined. M. Shanzer. 147,477; Sept. 9.
- Bottle and holder, Combined. C. H. Burger. 148,048; Dec. 9.
- Bottle and holder, Combined perfume. M. D'Ver. 147,493; Sept. 16.
- Bottle, Glass. T. Scott. 146,435; Mar. 4.
- Bottle opener. F. Mossberg. 146,485; Mar. 18.
- Bottle opener and corkscrew, Combination. M. Kaderli. 146,957; June 24.
- Bottle or article of similar nature. J. S. Allen. 147,630; Oct. 14.
- Bottle or similar article, Drug. J. F. Dennis. 148,216; Dec. 30.
- Bottle or similar article, Perfume. E. B. Barrios. 147,313; Aug. 19.
- Bottle, or similar article, Perfume. L. Lelong. 148,078; Dec. 9.
- Bottle stopper. S. Farbstain. 146,853; June 3.
- Bottom for bowling ball bags or the like. A. D. Bain. 147,777; Nov. 4.
- Boutonniere. V. A. Daniel. 147,535; Sept. 23.
- Bowl. A. Bach. 148,006; Dec. 2.
- Bowl or similar article. J. Rubel. 146,810; May 20.
- Bowl or the like, Shaving soap. A. Levy. 146,723; Apr. 29.
- Bowl, Pipe. P. S. Harper. 148,239; Dec. 30.
- Box. A. Bach. 148,044; Dec. 9.
- Box. F. Diamond. 147,492; Sept. 16.



- Box. F. H. Fisher. 148,155-6; Dec. 23.  
 Box for leads or the like. J. O. Reinecke. 147,868; Nov. 11.  
 Box, Jewelry. J. B. Guttman. 147,903; Nov. 18.  
 Box, Jewelry display. A. R. Harman. 147,651; Oct. 14.  
 Box, Music. K. C. Shyvers. 146,880-1; June 3.  
 Box or similar article. G. Restifo. 146,808; May 20.  
 Box or similar article, Bath's cosmetics. E. B. Steinberg. 146,951; June 17.  
 Box or similar article, Display. R. F. Dibble. 147,364; Aug. 26.  
 Box or similar article, Jewelry. G. F. Brown. 146,346; Feb. 18.  
 Box, Sewing. H. W. Murray. 146,743; May 6.  
 Box, Shoe shine. J. T. Pearson, Jr. 147,063; July 8.  
 Bracelet. H. Bogoff. 147,778-80; Nov. 4.  
 Bracelet. H. Bogoff. 147,886; Nov. 18.  
 Bracelet. C. F. Carter. 147,227; Aug. 5.  
 Bracelet. A. Katz. 146,859; June 3.  
 Bracelet. J. C. Kurtz. 146,474-80; Mar. 18.  
 Bracelet. G. J. Lederer. 146,511-13; Mar. 25.  
 Bracelet. G. J. Lederer. 147,054-6; July 8.  
 Bracelet. W. Lutz. 147,015; July 1.  
 Bracelet. C. Mucci. 146,980; June 24.  
 Bracelet. C. T. Parisi. 147,061-2; July 8.  
 Bracelet. A. Philippe. 147,298; Aug. 12.  
 Bracelet. F. W. Pruett and P. N. Jewell. 148,114; Dec. 16.  
 Bracelet. S. Ray-Dupuis. 148,089; Dec. 9.  
 Bracelet. L. M. Smith. 147,512; Sept. 16.  
 Bracelet and watchcase, Combined. E. Zimet. 147,827; Nov. 4.  
 Bracelet, Expandible. W. and F. E. Regelman. 147,989; Nov. 25.  
 Bracelet or similar article. M. Chernow. 147,004-5; July 1.  
 Bracelet or similar article. M. Chernow. 148,007-8; Dec. 2.  
 Bracelet or similar article. W. W. Hobe. 146,179; Jan. 7.  
 Bracelet or similar article. A. M. Johnson. 148,023; Dec. 2.  
 Bracelet or similar article. A. Katz. 147,453; Sept. 9.  
 Bracelet or similar article. A. Katz. 147,659; Oct. 14.  
 Bracelet or similar article. A. Katz. 147,662; Oct. 14.  
 Bracelet or similar article. A. Katz. 147,668; Oct. 14.  
 Bracelet or similar article. A. Katz. 147,907-8; Nov. 18.  
 Bracelet or similar article. A. Philippe. 147,763; Oct. 28.  
 Bracelet or similar article. A. Philippe. 147,811; Nov. 4.  
 Bracelet or similar article. J. Rosenberg and F. D. Byrne. 147,018; July 1.  
 Bracelet or similar article. M. Slater. 146,779; May 13.  
 Bracelet or similar article. J. G. Stanley. 147,154; July 15.  
 Bracelet or similar article. D. D. Zakwin. 147,224; July 29.  
 Bracelet or the like. K. C. Augenstein. 148,125; Dec. 23.  
 Bracelet or the like. M. Chernow. 146,299; Feb. 4.  
 Bracelet or the like. M. Chernow. 146,761; May 13.  
 Bracelet or the like. M. Chernow. 147,839; Nov. 11.  
 Bracket, Broom hanger. B. B. Miller. 146,229; Jan. 14.  
 Bracket, Wall. F. Diamond. 147,119; July 15.  
 Bracket, Wall. F. Diamond. 148,051-2; Dec. 9.  
 Bracket, Wall. F. Diamond. 148,150; Dec. 23.  
 Bracket, Wall. F. H. Fisher. 147,497; Sept. 16.  
 Bracket, Wall. F. H. Fisher. 147,746; Oct. 28.  
 Bracket, Wall. M. J. Lewis. 147,913; Nov. 18.  
 Broiler base. H. J. Talge. 147,569-70; Sept. 23.  
 Brooch. A. Aquilino. 146,552-3; Apr. 8.  
 Brooch. A. Aquilino. 146,635; Apr. 22.  
 Brooch. F. J. Gargano. 146,563-5; Apr. 8.  
 Brooch. F. J. Gargano. 146,651-3; Apr. 22.  
 Brooch. F. J. Gargano. 147,266-7; Aug. 12.  
 Brooch. F. J. Gargano. 147,326; Aug. 19.  
 Brooch. J. S. Lichter. 148,031; Dec. 2.  
 Brooch. W. A. Nichols. 148,182; Dec. 23.  
 Brooch, Aiglet. S. Packales. 147,926; Nov. 18.  
 Brooch and containers for cosmetics or the like, Combined. R. Seech. 146,323; Feb. 4.  
 Brooch or similar article. C. Arpels. 147,390-1; Sept. 2.  
 Brooch or similar article. N. Barbieri. 147,485; Sept. 16.  
 Brooch or similar article. N. Barbieri. 147,574-6; Sept. 30.  
 Brooch or similar article. M. Chernow. 146,461; Mar. 18.  
 Brooch or similar article. M. Chernow. 148,143; Dec. 23.  
 Brooch or similar article. B. Darvie. 146,211-12; Jan. 14.  
 Brooch or similar article. B. Darvie. 146,443; Mar. 11.  
 Brooch or similar article. B. Darvie. 147,490-1; Sept. 16.  
 Brooch or similar article. B. Darvie. 147,894-5; Nov. 18.  
 Brooch or similar article. G. E. Fearn. 146,467-8; Mar. 18.  
 Brooch or similar article. G. F. Garrison. 147,545; Sept. 23.  
 Brooch or similar article. N. E. Jansen. 146,660; Apr. 22.  
 Brooch or similar article. A. Katz. 146,281; Jan. 28.  
 Brooch or similar article. A. Katz. 146,312; Feb. 4.  
 Brooch or similar article. A. Katz. 146,503; Mar. 25.  
 Brooch or similar article. A. Katz. 146,575-6; Apr. 8.  
 Brooch or similar article. A. Katz. 146,769; May 13.  
 Brooch or similar article. A. Katz. 146,919; June 10.  
 Brooch or similar article. A. Katz. 146,958-9; June 24.  
 Brooch or similar article. A. Katz. 146,961-2; June 24.  
 Brooch or similar article. A. Katz. 146,964-6; June 24.  
 Brooch or similar article. A. Katz. 147,012; July 1.  
 Brooch or similar article. A. Katz. 147,047; July 8.  
 Brooch or similar article. A. Katz. 147,129-30; July 15.  
 Brooch or similar article. A. Katz. 147,180-97; July 22.  
 Brooch or similar article. A. Katz. 147,241-6; Aug. 5.  
 Brooch or similar article. A. Katz. 147,271-7; Aug. 12.  
 Brooch or similar article. A. Katz. 147,282-6; Aug. 12.  
 Brooch or similar article. A. Katz. 147,290; Aug. 12.  
 Brooch or similar article. A. Katz. 147,409; Sept. 2.  
 Brooch or similar article. A. Katz. 147,442-3; Sept. 9.  
 Brooch or similar article. A. Katz. 147,446; Sept. 9.  
 Brooch or similar article. A. Katz. 147,448-9; Sept. 9.  
 Brooch or similar article. A. Katz. 147,451-2; Sept. 9.  
 Brooch or similar article. A. Katz. 147,455-7; Sept. 9.  
 Brooch or similar article. A. Katz. 147,558; Sept. 23.  
 Brooch or similar article. A. Katz. 147,654-8; Oct. 14.  
 Brooch or similar article. A. Katz. 147,661; Oct. 14.  
 Brooch or similar article. A. Katz. 147,664-7; Oct. 14.  
 Brooch or similar article. A. Katz. 147,792; Nov. 4.  
 Brooch or similar article. A. Katz. 148,028; Dec. 2.  
 Brooch or similar article. A. Katz. 148,169; Dec. 23.  
 Brooch or similar article. A. Katz. 148,171; Dec. 23.  
 Brooch or similar article. P. Marino. 147,621; Oct. 7.  
 Brooch or similar article. J. and S. Montaquila. 148,180; Dec. 23.  
 Brooch or similar article. A. Philippe. 147,066-74; July 8.  
 Brooch or similar article. A. Philippe. 147,077-80; July 8.  
 Brooch or similar article. A. Philippe. 147,147-8; July 15.  
 Brooch or similar article. A. Philippe. 147,201-6; July 22.  
 Brooch or similar article. A. Philippe. 147,296; Aug. 12.  
 Brooch or similar article. A. Philippe. 147,299; Aug. 12.  
 Brooch or similar article. A. Philippe. 147,376; Aug. 26.  
 Brooch or similar article. A. Philippe. 147,865-6; Nov. 11.  
 Brooch or similar article. A. Philippe. 148,087-8; Dec. 9.  
 Brooch or similar article. H. Pomerantz. 147,420; Sept. 2.  
 Brooch or similar article. A. Verrecchia. 147,768-70; Oct. 28.  
 Brooch or similar article, Separable. A. Katz. 147,179; July 22.  
 Brooch or similar article, Separable. A. Katz. 147,410; Sept. 2.  
 Brooch or similar article, Separable. A. Katz. 147,669; Oct. 14.  
 Brooch or similar article, Separable. A. Katz. 148,174; Dec. 23.  
 Brooch or similar article, Separable. A. Katz. 148,246; Dec. 30.  
 Brooch, Separable. A. Katz. 147,441; Sept. 9.  
 Brush, comb, and holder or the like, Combined. A. H. Jung. 147,749; Oct. 28.  
 Brush for a suction cleaner or similar article. H. Dreyfuss. 147,215; July 29.  
 Brush or similar article. V. A. Nordeng. 147,140; July 15.  
 Brush or similar article, Hair. I. O. Witte. 147,097; July 8.  
 Brush, Shaving. L. E. Goeller. 147,405; Sept. 2.  
 Buckle. M. Takata. 146,693; Apr. 22.  
 Buckle, Belt. R. J. Druban. 146,706; Apr. 29.  
 Buckle, Belt. J. R. Hamble. 147,218; July 29.  
 Buckle, Belt. H. Pomerantz. 147,419; Sept. 2.  
 Buckle, Belt. J. C. Wolff. 146,205; Jan. 7.  
 Buckle or the like, Belt. A. Nalick. 147,595; Sept. 30.  
 Building. G. Lancia. 146,410; Feb. 25.  
 Building. C. T. Rice. 147,085; July 8.  
 Building. F. S. Saum. 147,382; Aug. 26.  
 Building, Airport administration. R. N. Wakefield. 147,738; Oct. 21.  
 Building or the like, Restaurant. B. C. Dillon. 147,641; Oct. 14.  
 Building or the like, Service station. G. W. Terp. 148,196; Dec. 23.  
 Bumper guard, Automobile. H. T. Bannister. 147,606; Oct. 7.  
 Bumper guard, Automobile. R. Cadwallader. 147,612; Oct. 7.  
 Bureau. M. Hallward. 146,740; May 6.  
 Bureau. F. Ziegler. 147,944-6; Nov. 18.  
 Bus, Articulated. K. Henriksen. 148,066; Dec. 9.  
 Button or similar article. W. Dreil. 146,790-1; May 20.  
 Button or similar article. D. Kasen. 147,330-1; Aug. 19.  
 Button or similar article. M. Weeber. 147,029-31; July 1.  
 Button or similar article, Lapel. A. Apicella. 147,389; Sept. 2.  
 Button or similar article, Lapel. J. P. Hightower. 146,178; Jan. 7.  
 Cab, Motor vehicle. C. S. Ash. 147,632; Oct. 14.  
 Cabinet. A. and M. Wood. 147,257; Aug. 5.  
 Cabinet, Bar. A. E. Brenner. 147,611; Oct. 7.  
 Cabinet, Combination radio and phonograph. M. J. Wachsmann. 147,208; July 22.  
 Cabinet, Combination radio and phonograph. H. L. Weisburgh. 147,703; Oct. 14.  
 Cabinet, Combination radio-phonograph. H. L. Weisburgh. 148,204; Dec. 23.



- Cabinet, Cooler. R. Loewy. 147,370; Aug. 26.  
 Cabinet, Display. Y. L. Nehrenz. 146,581; Apr. 8.  
 Cabinet for a combination kitchen unit or similar article. G. L. C. Earle. 147,616; Oct. 7.  
 Cabinet for jewelry and the like, Illuminable display. A. Gould. 146,354; Feb. 18.  
 Cabinet for phonographic records, Service. A. Levine. 148,030; Dec. 2.  
 Cabinet for sound reproducing apparatus. D. C. Rockola. 146,682; Apr. 22.  
 Cabinet, Frozen food. M. Rifkin. 147,149; July 15.  
 Cabinet, Frozen food display. D. Robertson. 147,086; July 8.  
 Cabinet, Kitchen. A. Tompkins. 148,200; Dec. 23.  
 Cabinet, Motor analyzer. I. W. Folk. 147,437; Sept. 9.  
 Cabinet or similar article, Card. M. S. Stone. 147,384-5; Aug. 26.  
 Cabinet or similar article, Radio receiver. H. J. Zeller, Jr. 148,041; Dec. 2.  
 Cabinet or the like, Radio. R. E. Bingman. 147,316; Aug. 19.  
 Cabinet or the like, Radio. R. E. Bingman. 148,045; Dec. 9.  
 Cabinet or the like, Radio. F. C. Burton. 146,641; Apr. 22.  
 Cabinet or the like, Radio. F. C. Burton. 146,849; June 3.  
 Cabinet or the like, Radio. D. G. Erskine. 146,954; June 24.  
 Cabinet or the like, Radio. D. G. Erskine. 147,643; Oct. 14.  
 Cabinet or the like, Radio. J. F. Glover. 146,907; June 10.  
 Cabinet or the like, Radio. J. F. Glover. 148,020; Dec. 2.  
 Cabinet, Phonograph. P. M. Fuller. 146,175; Jan. 7.  
 Cabinet, Phonograph. W. L. Martling, Jr. 147,859; Nov. 11.  
 Cabinet, Phonograph. D. C. Rockola. 146,874; June 3.  
 Cabinet, Phonograph. E. F. Thomson. 147,627; Oct. 7.  
 Cabinet, Radio. R. D. Budlong. 146,170; Jan. 7.  
 Cabinet, Radio. R. D. Budlong. 146,210; Jan. 14.  
 Cabinet, Radio. R. D. Budlong. 146,404; Feb. 25.  
 Cabinet, Radio. R. D. Budlong. 146,640; Apr. 22.  
 Cabinet, Radio. J. De Young. 146,537; Apr. 1.  
 Cabinet, Radio. J. De Young. 148,010; Dec. 2.  
 Cabinet, Radio. C. Gallo. 147,648; Oct. 14.  
 Cabinet, Radio. L. Knip, Jr. 147,460; Sept. 9.  
 Cabinet, Radio. M. C. Rosenthal. 147,473; Sept. 9.  
 Cabinet, Radio phonograph. M. J. Wachsmann. 147,481; Sept. 9.  
 Cabinet, Radio receiver. L. C. Shapiro and F. W. Flynn. 146,385; Feb. 18.  
 Cabinet, Radio transmitter. M. E. Kluge. 146,860; June 3.  
 Cabinet, Refrigerator. D. E. Dailey. 146,789; May 20.  
 Cabinet, Refrigerator. J. M. Little. 147,802; Nov. 4.  
 Cabinet, Sewing machine. J. L. Ray. 146,383; Feb. 18.  
 Cabinet, Shoeshine. W. D. Dunn. 147,262; Aug. 12.  
 Cabinet, Speaker unit. A. W. Brockman. 147,833; Nov. 11.  
 Cabinet, Speaker unit. N. A. Miller. 147,861; Nov. 11.  
 Cabinet, Thermostatic control. J. G. Lippincott. 148,079; Dec. 9.  
 Cabinet, Toothbrush. M. J. Hanni. 147,123; July 15.  
 Cabinet, Toothbrush. M. J. Hanni. 147,650; Oct. 14.  
 Cabinet unit, Wall. R. Rouillard. 148,092; Dec. 9.  
 Cabinet, Vegetable and storage. R. W. Conner. 147,640; Oct. 14.  
 Calendar, clock, and desk unit, Combined. B. T. Bowers. 147,742; Oct. 28.  
 Camera. R. T. Larson. 146,800; May 20.  
 Camera. H. D. Schmidt. 147,991; Nov. 25.  
 Camera. I. Shayne. 147,930; Nov. 18.  
 Camera tripod head. R. Katz. 148,107; Dec. 16.  
 Can opener. E. W. Worley. 147,098; July 8.  
 Candle and tray, Combined. M. C. Hussey. 147,730; Oct. 21.  
 Can piercer. G. P. Steen. 148,258; Dec. 30.  
 Cap, Bottle. V. Guarnaschelli. 146,355; Feb. 18.  
 Cap, Bottle. W. H. Stevens, Jr. 147,027; July 1.  
 Cap, Container. P. A. Derham. 146,497; Mar. 25.  
 Cap, Container. P. A. Derham. 146,536; Apr. 1.  
 Cap, Container. P. A. Derham. 147,261; Aug. 12.  
 Cap for a fountain pen or similar article. J. G. Lippincott. 146,181; Jan. 7.  
 Cap for gasoline tanks, Locking. S. J. Sidell. 146,750; May 6.  
 Car, Miniature racing. O. Z. Frazier. 147,039; July 8.  
 Card index or the like. I. Keesing, Jr. 148,076; Dec. 9.  
 Card, Post. S. N. Hassan. 146,568; Apr. 8.  
 Card reproducing machine, Punched. G. H. Kress. 147,248; Aug. 5.  
 Cards, Set of playing. E. C. Van Wagner. 146,201; Jan. 7.  
 Carpet or similar article. G. V. Uihlein. 147,092; July 8.  
 Carriage or similar article, Baby. L. Gottfried. 147,043; July 8.  
 Carriage or similar article, Baby. L. Gottfried. 147,327-8; Aug. 19.  
 Carriage, Service. J. A. Wiser. 146,241; Jan. 14.  
 Carrier, Bottle. F. K. Gibson. 147,584; Sept. 30.  
 Carrying and display device, Combination. L. H. Best. 146,784; May 20.  
 Cart, Hand. A. K. Peterson. 146,419; Feb. 25.  
 Cart, Shopping. S. G. Brotman. 148,128; Dec. 23.  
 Case and brooch or similar article, Combined watch. E. Deutsch. 147,962; Nov. 25.  
 Case and counter, Combined display. L. R. Silveira. 147,818; Nov. 4.  
 Case and humidifier, Combined cigar. O. E. Dietrich. 147,120; July 15.  
 Case, Bottle. J. P. Waldrop. 147,028; July 1.  
 Case, Bottle carrying. J. W. Lenham. 147,981; Nov. 25.  
 Case, Cigarette. M. J. Lewis. 147,057; July 8.  
 Case, Clock. R. V. Basso. 146,208; Jan. 14.  
 Case, Double spectacle. N. Kalnitz and C. E. Appling. 146,223; Jan. 14.  
 Case, Electric shaver carrying. J. Streng. 147,254; Aug. 5.  
 Case for a camera. R. A. May. 146,673; Apr. 22.  
 Casing for cigarette lighter. H. J. Sudbrink. 146,270; Jan. 21.  
 Casing for hearing aid apparatus. R. E. Tresise and P. D. Kendall. 146,838-9; May 27.  
 Case for piano or the like. A. P. Brown. 146,345; Feb. 18.  
 Case for religious shrine or the like. W. T. Jones. 147,329; Aug. 19.  
 Case, Hand luggage. C. B. Stevens. 146,812; May 20.  
 Case, Hand luggage. G. H. Wheary, Jr. 147,704; Oct. 14.  
 Case, Lipstick. M. Chalom. 146,172; Jan. 7.  
 Case, Merchandise display. H. L. Carpenter. 147,719; Oct. 21.  
 Case, Merchandise display. H. P. Glass. 147,964-9; Nov. 25.  
 Case or similar article, Vanity. R. T. Gaige. 146,649-50; Apr. 22.  
 Case or similar article, Vanity. F. Spitalny. 146,755; May 6.  
 Case or similar article, Vanity. F. Spitalny. 147,568; Sept. 23.  
 Case, Refrigerated display. R. E. Davis. 146,558; Apr. 8.  
 Case, Show. S. L. Musselman. 146,372; Feb. 18.  
 Casing for picture projection screen. L. J. Du Mais, C. C. Cooley, and J. T. Heck. 147,898; Nov. 18.  
 Casing, Hair clipper. F. J. La Mere. 147,050; July 8.  
 Casing, Loud-speaker. J. B. Doblin. 148,151; Dec. 23.  
 Casing, Loud-speaker. W. L. Martling, Jr. 147,984-5; Nov. 25.  
 Casing or similar article, Lamp. P. O. Wright. 147,939; Nov. 18.  
 Casing, Parking meter. L. F. Fink. 2,416,469; Mar. 18.  
 Casing, Remote controller. W. L. Martling, Jr. 147,860; Nov. 11.  
 Casing, Remote controller. W. L. Martling, Jr. 147,983; Nov. 25.  
 Casing, Suction cleaner. C. Karstadt. 146,574; Apr. 8.  
 Casing, Tank type suction cleaner. C. Karstadt. 146,573; Apr. 8.  
 Casing, Vacuum cleaner. H. A. Kroenlein. 146,971; June 24.  
 Casing, Vacuum cleaner. E. P. Senné. 147,874; Nov. 11.  
 Casing, Washing machine. D. Chapman. 146,334; Feb. 11.  
 Chain for a bracelet or similar article, Extensible. A. L. Anderson. 147,484; Sept. 16.  
 Chain for a bracelet or similar article, Link. M. Chernow. 146,462-3; Mar. 18.  
 Chain for a bracelet or similar article, Link. G. E. Fournier. 146,854; June 3.  
 Chain for a bracelet or similar article, Link. J. L. Pessel and F. Slug. 147,987; Nov. 25.  
 Chain for a bracelet or the like, Link. M. Chernow. 147,840; Nov. 11.  
 Chair. C. Eames. 147,615; Oct. 7.  
 Chair. R. Fenton. 146,213; Jan. 14.  
 Chair. H. Harris. 148,065; Dec. 9.  
 Chair. O. Mankki. 147,133; July 15.  
 Chair. F. E. Markus. 148,034; Dec. 2.  
 Chair. H. E. Renaud. 148,187; Dec. 23.  
 Chair. C. W. Sundberg. 147,935; Nov. 18.  
 Chair, Adjustable high. M. and G. Engelberg. 147,540; Sept. 23.  
 Chair, Adjustable lounge. F. J. Luketa. 147,463; Sept. 9.  
 Chair and end table, Combined baby. C. S. Johnson. 146,796; May 20.  
 Chair and table, Convertible. M. A. Kirkpatrick. 147,671; Oct. 14.  
 Chair and table or like article, Combination. C. R. Coulter. 147,581; Sept. 30.  
 Chair and table or like article, Combination. R. G. Schneider. 147,873; Nov. 11.  
 Chair, Arm. F. E. Markus. 147,464; Sept. 9.  
 Chair, Baby's. E. H. and C. M. Clairmonte. 146,347; Feb. 18.  
 Chair, hair dryer, and supply cabinet, Combined. W. Stern. 147,155; July 15.  
 Chair, High. E. L. Beckwith. 147,828; Nov. 11.  
 Chair, Infant's. J. E. Huber. 148,068; Dec. 9.  
 Chair, Nursery. M. A. Kirkpatrick. 148,247; Dec. 30.  
 Chair or similar article. D. Bitter. 146,343; Feb. 18.  
 Chair or similar article. W. C. Roberts and H. B. Powell. 147,150; July 15.  
 Chair, Telephone. G. Thomas. 147,386; Aug. 26.  
 Chaise longue. A. Roth. 147,377; Aug. 26.  
 Chaise longue. C. S. Cook and E. L. Wilson. 147,489; Sept. 16.



- Chamber, Lap-engaging child's. N. R. Deardorff. 148,149; Dec. 23.
- Chart, Music information. B. Belle. 147,314; Aug. 19.
- Chassis, Pull toy. O. Feder. 147,544; Sept. 23.
- Chessmen, Set of. L. R. Hirschel. 147,904; Nov. 18.
- Chessmen, Set of. F. D. McNaughton. 148,178; Dec. 23.
- Chest for silverware or the like. A. E. Sloan. 147,305-6; Aug. 12.
- Chest of drawers. W. A. Tomlinson and R. W. Neville. 148,199; Dec. 23.
- Chest or the like. H. Winterfeld. 147,482; Sept. 9.
- Chifforobe, Child's. M. A. Kirkpatrick. 147,672; Oct. 14.
- Chute, signal chime, and house number housing, Combined mail. L. G. Hallamore. 147,727; Oct. 21.
- Cigar Package. A. Suraci. 146,529; Mar. 25.
- Cigarette rest and match holder, Combined. W. L. Russo and F. McLaughlin. 147,816; Nov. 4.
- Clasp, Jewelry. P. Bardach. 148,126; Dec. 23.
- Clasp or the like, Tie. W. F. Oppenheimer. 146,231; Jan. 14.
- Clasp, Tie. R. H. Taylor. 146,200; Jan. 7.
- Clip. F. J. Gargano. 147,268; Aug. 12.
- Clip or similar article. M. Boucher. 147,394; Sept. 2.
- Clip or similar article. M. Boucher. 147,397; Sept. 2.
- Clip or similar article. S. Finkelstein. 146,764; May 13.
- Clip or similar article. A. Katz. 146,963; June 24.
- Clip or similar article, Ear. S. Dawer. 147,213-14; July 29.
- Clip or similar article, Ear. E. Zimet. 146,696; Apr. 22.
- Clip or similar article, Pin. A. Katz. 148,172; Dec. 23.
- Clip or similar article, Pin. A. Philippe. 146,381; Feb. 18.
- Clock. H. A. Coe. 147,111-12; July 15.
- Clock. M. E. Schlenker. 146,322; Feb. 4.
- Clock and desk unit, Combination. J. J. Swartzmiller. 146,491; Mar. 18.
- Clock and photo mount, Combined. S. F. Miller. 147,504; Sept. 16.
- Clock case. V. Faor. 146,406; Feb. 25.
- Clock case. P. J. Godart. 147,618; Oct. 7.
- Clock case and dial, Combined. P. J. Godart. 147,617; Oct. 7.
- Clock casing. G. H. Kress. 146,283; Jan. 28.
- Clock face and map, Combined. A. Tellier. 146,455; Mar. 11.
- Clock or similar article. M. H. Lencer. 146,412-14; Feb. 25.
- Clock or similar article. R. G. Richardson. 147,302; Aug. 12.
- Clock or similar article, Desk. M. H. Lencer. 146,415; Feb. 25.
- Clock, Wall. W. E. Bentzinger. 147,361; Aug. 26.
- Closure for a jar or similar article. G. M. Hood. 146,795; May 20.
- Closure, Handbag lock. Z. Grosz. 148,063; Dec. 9.
- Cloth, Wash. F. Vaiana. 147,998; Nov. 25.
- Clothes-brush, Foldable. L. E. Goeller. 147,406; Sept. 2.
- Clothespin. V. H. Gillespie and P. E. Mokszycki. 147,007; July 1.
- Clothespin. V. J. Jacobsen. 146,658; Apr. 22.
- Clothespin. W. Kaufman. 146,719; Apr. 29.
- Clothespin. L. K. Moore and F. B. Monroe. 146,230; Jan. 14.
- Clothespin. O. Popick. 147,597; Sept. 30.
- Clothespin or similar article. V. K. Cooper. 146,937; June 17.
- Coaster. G. H. Wright-Clark. 147,519-22; Sept. 16.
- Coaster set and holder therefor, Combined. A. G. Bureau. 146,246; Jan. 21.
- Coat. B. Chalk. 148,132; Dec. 23.
- Coat. M. Frascino. 146,855; June 3.
- Coat. J. Freedman. 146,216; Jan. 14.
- Coat. J. Freedman. 146,711-12; Apr. 29.
- Coat. J. Freedman. 146,793; May 20.
- Coat. J. Freedman. 146,856; June 3.
- Coat. J. Freedman. 148,157; Dec. 23.
- Coat. I. Goldstein. 146,857; June 3.
- Coat. I. Goldstein. 146,910-13; June 10.
- Coat. J. Walker. 146,818; May 20.
- Coat. E. Wilkens. 146,274; Jan. 21.
- Coat, Double-breasted. J. L. McGeary. 147,805; Nov. 4.
- Coat for dogs, Hooded storm. R. A. Cheney. 146,698; Apr. 29.
- Coat, Lady's. C. J. Tyler. 146,627; Apr. 15.
- Coffee maker. G. W. Florian. 146,352; Feb. 18.
- Comb. A. Daniels. 146,823; May 27.
- Comb. C. C. Holden. 147,551-2; Sept. 23.
- Comb. L. S. Utley. 147,167; July 15.
- Comb, Hair cutting. S. E. A. Sanders. 146,989; June 24.
- Comb or similar article. I. O. Witte. 147,711; Oct. 14.
- Comb with a handle. L. S. Utley. 147,387; Aug. 26.
- Comb with handle. E. J. Lux. 146,945; June 17.
- Compact. W. B. Crane. 146,594-5; Apr. 15.
- Compact. W. B. Crane. 146,938; June 17.
- Container and applicator, Combined perfume. H. J. Gittleston. 147,847; Nov. 11.
- Container and ash tray, Combined cigarette. C. M. J. Ornot. 146,450; Mar. 11.
- Container capping apparatus. W. E. Zimmermann and H. E. Weidanz. 148,207; Dec. 23.
- Container, Combined bracelet and cosmetic. S. Packales. 148,183; Dec. 23.
- Container, Combined cigarette and match. J. E. Buck. 146,169; Jan. 7.
- Container, Cosmetic. H. A. Coe. 147,110; July 15.
- Container for a toy. T. B. Hodge. 147,500; Sept. 16.
- Container for finger rings, Vendible display. J. J. Waldron. 147,256; Aug. 5.
- Container for nail polish or similar article. C. W. Gardiner. 147,265; Aug. 12.
- Container for poker chips. J. Foier. 148,220; Dec. 30.
- Container or similar article, Liquid. P. Reid. 146,288; Jan. 28.
- Container or the like, Perfume. E. P. Schreyer. 146,928; June 10.
- Container or the like, Perfume. T. Shimotori. 146,528; Mar. 25.
- Container, Powder. J. P. Wilde. 148,101; Dec. 9.
- Control for electric circuits, Foot pedal. B. Eisenberg and O. B. Schwarz. 147,322; Aug. 19.
- Cooker, Portable. M. L. Failing. 148,154; Dec. 23.
- Cooker, Pressure. W. J. Russell. 146,234-5; Jan. 14.
- Cooker unit, Electric. J. B. Swartzbaugh. 146,326; Feb. 4.
- Cooler. R. Loewy. 147,369; Aug. 26.
- Corkscrew. H. C. Howells. 146,956; June 24.
- Costumer. M. A. Kirkpatrick. 147,562; Sept. 23.
- Costumer, Child's. M. A. Kirkpatrick. 147,561; Sept. 23.
- Cover for bottles, Decorative. F. Koenigsberger. 147,337; Aug. 19.
- Cover or similar article, Meat mold. F. H. Hoy. 148,243; Dec. 30.
- Covering, Waterproof foot. T. F. Gibbs, F. E. Conner, Jr., and W. E. Donahue. 147,499; Sept. 16.
- Cradle, Doll's. F. A. Lisi. 146,944; June 17.
- Crane body, Automotive. J. W. Wunsch. 146,242; Jan. 14.
- Crib, Baby. B. Guastella. 147,787; Nov. 4.
- Crib, Folding. W. R. Horton. 147,851; Nov. 11.
- Crusher, Ice. E. M. Dralle. 417,435; Sept. 9.
- Cuff link. T. F. Strub. 147,934; Nov. 18.
- Cup, Egg cooking and serving. J. L. Siessmayr. 147,994; Nov. 25.
- Cup, Gravy. L. A. Werth. 147,739; Oct. 21.
- Cutter, Butter. H. E. Cocke. 146,822; May 27.
- Cutter, Cheese. E. O. Carpenter. 148,131; Dec. 23.
- Cutter or the like, Vegetable. T. H. Walker. 148,203; Dec. 23.
- Deck of cards. J. B. Roberts. 147,815; Nov. 4.
- Decoration, Christmas. E. K. Arnold. 148,209; Dec. 30.
- Desk. W. F. Alpers. 147,523; Sept. 23.
- Desk. F. P. Fletcher. 148,058-9; Dec. 9.
- Desk, Child's. D. Mellick. 146,612; Apr. 15.
- Desk or similar article, Service station write-up. E. G. Fossum and F. L. Ayres. 146,939; June 17.
- Desk set and lamp standard, Combined. J. H. Steinberg. 146,883; June 3.
- Desk unit, Combination. B. Halprin. 147,439; Sept. 9.
- Desk unit, Combination. J. J. Swartzmiller. 146,490; Mar. 18.
- Dial or similar article, Global time. A. E. Freel. 146,500; Mar. 25.
- Dial, Timepiece. C. Stern. 147,601-2; Sept. 30.
- Diffusion disk for lamps. F. Schwartz. 147,567; Sept. 23.
- Dish. D. L. Park. 146,266; Jan. 21.
- Dish, Buffet chafing. D. C. O'Connell. 146,832; May 27.
- Dish, Buoyant soap. D. L. Fenelson. 147,495; Sept. 16.
- Dish or other article of hollow ware. J. G. Theobald. 147,157-8; July 15.
- Dish, Soap. L. Sahley. 147,221; July 29.
- Dispenser, Adhesive tape. D. E. Dailey. 146,277; Jan. 28.
- Dispenser, Adhesive tape. D. E. Dailey. 147,582; Sept. 30.
- Dispenser, Adhesive tape. T. H. Krueger. 146,473; Mar. 18.
- Dispenser, Adhesive tape. R. Loewy. 146,449; Mar. 11.
- Dispenser, Cigarette. V. S. Reynolds. 146,422; Feb. 25.
- Dispenser, Cigarette. I. B. Sherr. 147,354; Aug. 19.
- Dispenser, Condiment. G. D. McCullough. 147,760; Oct. 28.
- Dispenser, Condiment. E. M. Swift. 147,879; Nov. 11.
- Dispenser, Food. W. H. Adams. 146,551; Apr. 8.
- Dispenser for insecticides or the like. S. McDuffee. 147,920; Nov. 18.
- Dispenser, Razor blade. H. W. Karstens. 146,604; Apr. 15.
- Dispenser, Salt tablet. P. C. Perrin. 147,809; Nov. 4.
- Dispenser set, Condiment. W. E. Ballard. 146,275; Jan. 28.
- Dispenser set, Condiment. W. E. Ballard. 146,733; May 6.
- Dispenser, Soda straw. E. E. Mosley. 147,415; Sept. 2.
- Dispenser, Tape. J. B. Hudson. 146,718; Apr. 29.
- Display case, Counter. J. G. Everett. 147,231; Aug. 5.
- Display case, Refrigerated. J. G. Rideout. 147,622; Oct. 7.
- Display stand for greeting cards or the like. L. Katz. 148,070-4; Dec. 9.
- Doll. M. Abel. 147,948; Nov. 25.
- Doll. E. L. Curtis. 148,214; Dec. 30.
- Doll. E. B. Groshong. 146,654; Apr. 22.
- Doll. J. Price and T. Hee. 147,082-3; July 8.
- Doll. D. W. Stokes. 147,997; Nov. 25.
- Doll. I. Stokes. 146,692; Apr. 22.



- Doll. E. G. Winterfeld. 147,707; Oct. 14.  
 Doll head. E. G. Winterfeld. 147,708; Oct. 14.  
 Doll or similar article. M. Marossi. 146,284; Jan. 28.  
 Doll or similar article. M. L. S. von Helmholt. 147,425; Sept. 2.  
 Door pull. M. C. Crawford. 147,892; Nov. 18.  
 Drafting implement. R. W. Musgrave. 146,285; Jan. 28.  
 Drafting instrument. F. R. Brown. 147,526; Sept. 23.  
 Drafting instrument. O. D. Premo. 147,565; Sept. 23.  
 Dress. J. L. Asteroff. 147,949; Nov. 25.  
 Dress. E. Evans. 147,230; Aug. 6.  
 Dress. J. Frazita. 147,647; Oct. 14.  
 Dress. M. Glickman. 147,042; July 8.  
 Dress. D. M. Goodstein. 146,305; Feb. 4.  
 Dress. D. M. Goodstein. 146,336-7; Feb. 11.  
 Dress. K. Rost. 146,877; June 3.  
 Dress. K. Rost. 147,020; July 1.  
 Dress. K. Rost. 147,869; Nov. 11.  
 Dress. S. Ruchman. 146,988; June 24.  
 Dress. S. Ruchman. 147,621-3; July 1.  
 Dress. S. Siegel. 146,454; Mar. 11.  
 Dress. H. H. Stahl. 146,991; June 24.  
 Dress. H. H. Stahl. 147,087; July 8.  
 Dress. H. H. Stahl. 147,624; Oct. 1.  
 Dress. J. F. Strassner. 147,691-3; Oct. 14.  
 Dress. J. F. Strassner. 147,700; Oct. 14.  
 Dress. M. Verrand. 147,999-148,003; Nov. 25.  
 Dress. J. Walker. 146,292-5; Jan. 28.  
 Dress. J. Walker. 146,329-31; Feb. 4.  
 Dress. J. Walker. 146,456-8; Mar. 11.  
 Dress. J. Walker. 146,549; Apr. 1.  
 Dress. J. Walker. 146,628-9; Apr. 15.  
 Dress. J. Walker. 147,936; Nov. 18.  
 Dress ensemble. J. F. Strassner. 147,696-7; Oct. 14.  
 Dress ensemble. J. F. Strassner. 147,699; Oct. 14.  
 Dresser or similar article. G. E. Obrig. 146,375-6; Feb. 18.  
 Drier, Portable hair. S. R. Shields. 147,599; Sept. 30.  
 Drum or similar article, Apron. J. Nachman. 147,986; Nov. 25.  
 Dutch oven. R. B. Wemyss. 147,000; June 24.  
 Earring. C. Arpels. 147,392; Sept. 2.  
 Earring. M. Boucher. 147,395; Sept. 2.  
 Earring. A. Katz. 146,311; Feb. 4.  
 Earring. A. Katz. 146,960; June 24.  
 Earring. A. Katz. 147,278-81; Aug. 12.  
 Earring. A. Katz. 147,287-9; Aug. 12.  
 Earring. A. Katz. 147,445; Sept. 9.  
 Earring. A. Katz. 147,447; Sept. 9.  
 Earring. J. J. Marsella. 146,185; Jan. 7.  
 Earring. J. J. Marsella. 147,914; Nov. 18.  
 Earring. A. Philippe. 147,065-4; July 8.  
 Earring. A. Philippe. 147,075-6; July 8.  
 Earring. A. Philippe. 147,199-200; July 22.  
 Earring. A. Philippe. 147,297; Aug. 12.  
 Earring. C. Schrayshuen. 147,510; Sept. 16.  
 Earring. G. Verrecchio. 146,781; May 13.  
 Earring or similar article. M. Chernow. 146,464; Mar. 18.  
 Earring or similar article. M. Chernow. 146,495-6; Mar. 25.  
 Earring or similar article. M. Chernow. 146,699; Apr. 29.  
 Earring or similar article. M. Chernow. 146,851; June 3.  
 Earring or similar article. M. Chernow. 146,936; June 17.  
 Earring or similar article. M. Chernow. 147,109; July 15.  
 Earring or similar article. M. Chernow. 147,580; Sept. 30.  
 Earring or similar article. M. Chernow. 148,133-42; Dec. 23.  
 Earring or similar article. A. Katz. 147,048-9; July 8.  
 Earring or similar article. A. Katz. 147,660; Oct. 14.  
 Earring or similar article. A. Katz. 147,663; Oct. 14.  
 Earring or similar article. A. Katz. 148,170; Dec. 23.  
 Earring or similar article. A. Katz. 148,173; Dec. 23.  
 Earring or similar article. P. Kaufman. 147,753-8; Oct. 28.  
 Earring or similar article. P. Kaufman. 147,796; Nov. 4.  
 Earring or similar article. P. Kaufmann. 147,856; Nov. 11.  
 Earring or similar article. J. and S. Montaquilla. 148,084; Dec. 9.  
 Earring or similar article. A. Philippe. 146,380; Feb. 18.  
 Earring or similar article. A. Philippe. 147,810; Nov. 4.  
 Earring or similar article. A. Philippe. 148,186; Dec. 23.  
 Earring or similar article. E. Steiner. 147,877; Nov. 11.  
 Earring or the like. M. Chernow. 146,762; May 13.  
 Easel. C. A. Elzinga. 146,738; May 6.  
 Educational device to teach children to read a clock. J. A. Webb. 146,757; May 6.  
 Eggcup. J. Manzeroll. 146,338; Feb. 11.  
 Embroidered trimming or similar article. H. Tobler. 147,159-64; July 15.  
 Endpiece for fluorescent lighting fixtures. J. H. Steinberg. 148,117; Dec. 16.  
 End unit for fluorescent lighting fixture or the like. S. A. Ward. 147,882; Nov. 11.  
 Enlarger, Photographic. P. Sinetar. 146,195; Jan. 7.  
 Eraser, brush, and chalk holder, Combined typewriter. O. C. Manheimer. 146,481; Mar. 18.  
 Extinguisher and ash tray, Combined. J. C. Lockwood. 146,366; Feb. 18.  
 Extractor, Juice. V. Aleks. 147,483; Sept. 16.  
 Eyeglasses, Pair of. P. Sills and F. P. Patalano. 146,237; Jan. 14.  
 Fabric. M. H. Hallgarten. 146,307; Feb. 4.  
 Fabric. M. R. Haure. 148,064; Dec. 9.  
 Fabric. M. J. Hughes. 146,310; Feb. 4.  
 Fabric. M. J. Hughes. 146,360; Feb. 18.  
 Fabric. P. J. Rohr. 146,318-21; Feb. 4.  
 Fabric, Knitted lace. S. Saftlas. 147,735; Oct. 21.  
 Fabric or similar article, Textile. G. H. Wheary, Jr. 146,819; May 20.  
 Fabric or the like. B. C. Shott. 146,452-3; Mar. 11.  
 Fabric or the like, Woven metal. A. J. Fitzgerald. 146,707-10; Apr. 29.  
 Fabric or the like, Woven metal. A. J. Fitzgerald. 148,057; Dec. 9.  
 Fabric, Plastic. H. Morris. 147,347; Aug. 19.  
 Fabric, Printed. E. Thompson. 147,310; Aug. 12.  
 Fabric, Printed. E. Thompson. 147,479; Sept. 9.  
 Fabric, Textile. J. Binford. 146,590-1; Apr. 15.  
 Fabric, Textile. J. Binford. 147,715; Oct. 21.  
 Fabric, Textile. G. R. Davis. 146,596; Apr. 15.  
 Fabric, Textile. G. R. Davis. 146,644; Apr. 22.  
 Fabric, Textile. J. Gluck. 146,599; Apr. 15.  
 Fabric, Textile. D. Kingman. 146,605-7; Apr. 15.  
 Fabric, Textile. W. C. Palmer. 146,615; Apr. 15.  
 Fabric, Textile. W. C. Palmer. 146,676-7; Apr. 22.  
 Fabric, Textile. W. Peirce. 146,616-18; Apr. 15.  
 Fabric, Textile. W. Peirce. 146,680-1; Apr. 22.  
 Fabric, Textile. W. Peirce. 147,808; Nov. 4.  
 Fabric, Textile. E. Raphaels. 146,745-6; May 6.  
 Fabric, Textile. D. Rosenthal. 146,621-2; Apr. 15.  
 Fabric, Textile. D. Rosenthal. 147,303; Aug. 12.  
 Fabric, Textile. H. W. Wilde. 146,630-4; Apr. 15.  
 Fabric, Textile. H. W. Wilde. 146,694; Apr. 22.  
 Fabric, Woven. A. N. Oppenheim. 147,198; July 22.  
 Fan, Ventilating. J. B. Koch. 147,336; Aug. 19.  
 Faucet and soap dish, Combined. A. G. Smolensky. 146,882; June 3.  
 Faucet or similar article, Radiator. J. F. Carter. 147,889; Nov. 18.  
 Faucet, Throttle type. E. S. Wells. 147,209; July 22.  
 Faucet, Water. E. H. Fitter. 147,404; Sept. 2.  
 Feeding set, Child's. R. J. Falk. 148,012-14; Dec. 2.  
 Fender. R. Cadwallader. 147,529-32; Sept. 23.  
 Figure, Articulated animal. F. L. Treuting. 146,816; May 20.  
 Figurine. M. Birkhahn. 147,635; Oct. 14.  
 Figurine. M. Birkhahn. 147,716; Oct. 21.  
 Figurine. J. L. Cwik. 148,147; Dec. 23.  
 Figurine. N. E. Jansen. 146,661; Apr. 22.  
 Figurine. C. O. Van Denburg. 146,328; Feb. 4.  
 Figurine or the like. V. Brown. 147,834-5; Nov. 11.  
 Figurine or the like. R. de Sarro. 147,432; Sept. 9.  
 Figurine or the like. G. W. Phillips. 146,777; May 13.  
 File, Card. F. H. Saltz. 146,948-9; June 17.  
 Film material or similar article, Plastic. M. H. Shulman. 147,931; Nov. 18.  
 Film material, Plastic. W. H. Southwick. 146,689-91; Apr. 22.  
 Fish bait. T. A. Findlay. 147,901; Nov. 18.  
 Fish lure. J. E. Short. 146,488; Mar. 18.  
 Fishing lure. W. L. Hilton. 147,044; July 8.  
 Fishing rod. V. P. Leivo. 147,462; Sept. 9.  
 Fixture, Display. H. E. Jones. 147,979; Nov. 25.  
 Fixture, Fluorescent lighting. E. N. Picker. 147,812; Nov. 4.  
 Fixture, Germicidal lamp. C. X. Meyer. 147,467; Sept. 9.  
 Fixture, Lamp. R. A. Clark, Jr. 146,897; June 10.  
 Fixture, Lighting. H. C. Holmes. 147,905; Nov. 18.  
 Fixture, Lighting. B. C. Pretzer and F. H. Clingan. 147,913; Nov. 4.  
 Fixture, Lighting. B. C. Pretzer and F. H. Clingan. 148,251; Dec. 30.  
 Fixture, Lighting. O. Richter. 147,598; Sept. 30.  
 Fixture, Lighting. F. W. Watkins. 147,357; Aug. 19.  
 Flashlight. R. F. Becker. 147,258; Aug. 12.  
 Flashlight. C. P. Hornung. 147,653; Oct. 14.  
 Flashlight. M. J. Kelly. 147,798; Nov. 4.  
 Flashlight. R. A. Murray. 147,058; July 8.  
 Flashlight and key chain, Combined. C. G. Erickson. 146,257; Jan. 21.  
 Flashlight, cosmetic case and cigarette case, Combination. J. Rabinowitch. 146,619; Apr. 15.  
 Flatiron, Electric. W. J. Russell. 146,384; Feb. 18.  
 Flatiron, Electric. W. J. Russell. 146,748; May 6.  
 Float, Seaplane. F. M. Salisbury. 148,255; Dec. 30.  
 Foam generating apparatus. R. L. Tuve. 146,730; Apr. 29.  
 Front for radio cabinet or similar article. W. Fanelli and C. A. Laystrom. 147,785; Nov. 4.  
 Font, Holy water. W. T. Jones. 146,544; Apr. 1.  
 Font of type. T. J. Deckard. 147,117; July 15.  
 Font of type. M. B. Rapp. 146,420-1; Feb. 25.  
 Font of type. S. S. Richmond. 147,686; Oct. 14.  
 Font of type or similar article. G. E. Dietze. 146,498; Mar. 25.  
 Fork, Barbecue. F. K. Storm. 146,729; Apr. 29.  
 Fork or analogous article. S. Ayres, Jr. 146,207; Jan. 14.  
 Fork or other article of flatware. W. F. Moran. 146,188; Jan. 7.  
 Fork or other article of flatware. J. R. Price. 146,985; June 24.



- Fork or other article of flatware. J. R. Price. 147,315; Feb. 4.
- Frame, Bicycle. W. H. Taylor. 146,436-7; Mar. 4.
- Frame, Chair. L. Gearhart. 147,649; Oct. 14.
- Frame, Eyeglass. L. Jacobson. 148,069; Dec. 9.
- Frame for eyeglasses. M. Schwartz. 147,475; Sept. 9.
- Frame for playground equipment. B. F. Leber. 146,665; Apr. 22.
- Frame, Lapel watch. D. Taylor. 146,994-6; June 24.
- Frame, Lapel watch. D. Taylor. 147,255; Aug. 5.
- Frame or similar article, Eyeglass. S. Kaesz. 146,447; Mar. 11.
- Frame or similar article, Handbag. H. Schlosberg. 147,474; Sept. 9.
- Frame or similar article, Picture. H. E. Larsen. 148,110; Dec. 16.
- Frame or similar article, Spectacle. M. B. Levoy. 147,368; Aug. 26.
- Frame or the like, Mirror. F. H. Fisher. 146,765; May 13.
- Frame or the like, Spectacle. L. L. Gagnon. 146,538; Apr. 1.
- Frame or the like, Spectacle. E. M. Splaine. 147,153; July 15.
- Frame or the like, Spectacle. E. M. Splaine. 148,039; Dec. 2.
- Frame, Picture. A. G. Golden. 147,747; Oct. 28.
- Frame, Picture. L. Mandel. 148,113; Dec. 16.
- Frame, Picture. A. L. Suman. 147,767; Oct. 28.
- Frame, Spectacle. A. Kono. 146,224-25; Jan. 14.
- Frame, Spectacle. M. B. Levoy. 146,666; Apr. 22.
- Frame, Spectacle. A. E. Mangold. 146,609; Apr. 15.
- Frame, Spectacle. A. G. McNeill. 146,263; Jan. 21.
- Frame, Spectacle. C. H. Morrill. 146,371; Feb. 18.
- Frame, Spectacle. J. Shyer. 146,236; Jan. 14.
- Frame, Spectacle. J. Shyer. 146,727; Apr. 29.
- Fruit juicer and grater head, Combined. E. Prinz. 146,382; Feb. 18.
- Funnel, Multiple. M. A. Stone. 147,737; Oct. 21.
- Game apparatus. W. L. Thompson. 146,492; Mar. 18.
- Game board. B. J. Bratt. 147,610; Oct. 7.
- Game board. D. W. Camp and O. B. Loper. 146,786; May 20.
- Game board. W. M. Childs. 146,736; May 6.
- Gameboard. E. Edwards. 146,429; Mar. 4.
- Game board. D. J. Karl. 148,027; Dec. 2.
- Game board. M. M. Kastner. 146,797; May 20.
- Game board. W. H. Matchett. 147,134; July 15.
- Game board. F. Sawyer. 147,421; Sept. 2.
- Game board. L. Streib. 147,222; July 29.
- Game board. E. Voellmy. 146,203; Jan. 7.
- Game board. R. E. Zimmerman. 147,713; Oct. 14.
- Gameboard, Checker. J. Sottile. 148,097; Dec. 9.
- Game device. T. Kirik. 146,578; Apr. 8.
- Glider. H. J. Smith. 147,766; Oct. 28.
- Glider or similar article. J. Jacobson. 147,501; Sept. 16.
- Globe, Lamp. J. V. Schraig. 146,878; June 3.
- Goggles, Pair of. A. W. Wilson. 147,883; Nov. 11.
- Golf club grip. J. P. Lawson. 148,029; Dec. 2.
- Golf club head. K. Smith. 148,193; Dec. 23.
- Grater, Coconut and vegetable. F. J. Repp, H. P. Yeager, L. B. Robbin, and L. B. Robbin, Jr. 147,566; Sept. 23.
- Grater, Vegetable. H. Schechtel. 147,688; Oct. 14.
- Grille Bar, Automobile. H. T. Bannister. 147,607; Oct. 7.
- Grille bar, Automobile radiator. R. Cadwallader. 147,527; Sept. 23.
- Grille panel, Automobile. R. Cadwallader. 147,528; Sept. 23.
- Guard, Fingernail. J. H. Kayer. 147,797; Nov. 4.
- Hair brush frame. A. Daniels. 147,536-7; Sept. 23.
- Hairbrush or similar article. I. O. Witte. 147,709-10; Oct. 14.
- Hair ornament, Two-piece. J. C. Roberts. 146,316-17; Feb. 4.
- Hairpin. C. A. Dovidio and A. J. Belliveau. 146,349; Feb. 18.
- Hammer head. E. H. Daniels. 146,899; June 10.
- Hamper or similar article. H. Gleitsman. 147,724-6; Oct. 21.
- Handbag. H. Bienen. 147,487; Sept. 16.
- Handbag. J. Fink. 147,037; July 8.
- Handbag. A. Glaser. 146,739; May 6.
- Handbag. A. Glaser. 147,234; Aug. 5.
- Handbag. E. N. Graham. 147,008; July 1.
- Handbag. E. N. Graham. 147,547-8; Sept. 23.
- Handbag. M. J. Kruger. 147,461; Sept. 9.
- Handbag. L. Reich. 148,253; Dec. 30.
- Handbag, Lady's. E. H. Hanson. 147,789; Nov. 4.
- Handbag or similar article. A. H. Witmond. 147,572; Sept. 23.
- Handbag or similar article, Lady's. R. Appel. 147,631; Oct. 14.
- Handwheel, Valve. J. D. McManus and R. O. Hunt. 146,674; Apr. 22.
- Handle and control valve for fire extinguishers, Combination. J. H. Stroop. 147,933; Nov. 18.
- Handle, Fishing rod. R. O. Baubie and V. J. McKendry. 146,636; Apr. 22.
- Handle for a knife, Kitchen utensil, or similar article. J. L. Hvale and R. A. Murray. 147,554; Sept. 23.
- Handle for a valve or the like. M. J. Rausch. 148,252; Dec. 30.
- Handle for coffee pots or the like. L. H. Snyder. 146,688; Apr. 22.
- Handle for cooking vessels and the like. A. F. Ransthal. 146,518; Mar. 25.
- Handle for electric iron. J. N. Polivka and F. Collura. 146,433; Mar. 4.
- Handle for hand luggage. C. B. Stevens. 146,836; May 27.
- Handle for hand luggage. C. B. Stevens. 147,878; Nov. 11.
- Handle for platters and the like. A. F. Ramsthal. 146,927; June 10.
- Handle for screwdrivers and the like. E. H. Daniels. 146,898; June 10.
- Handle for sweepers, vacuum cleaners, and similar articles, Molded. J. F. Finn. 146,499; Mar. 25.
- Handle, license plate holder and lamp housing, Combined. V. M. Exner and V. E. Gardner. 148,011; Dec. 2.
- Handle member for knives and forks and similar articles. J. L. Hvale. 147,553; Sept. 23.
- Handle or similar article, Tool. M. Meltzer. 147,373; Aug. 26.
- Handle, Window regulator. H. T. King. 147,560; Sept. 23.
- Hanger, Clothes. G. F. Dixon. 146,597-8; Apr. 15.
- Hanger, Clothes. L. Sanders. 146,623; Apr. 15.
- Hanger, Garment. J. L. Mack, Sr. 146,261-2; Jan. 21.
- Hanger, Garment. J. D. McDonald. 147,594; Sept. 30.
- Hanger, Garment. M. H. and R. C. Townsend. 146,997-8; June 24.
- Harmonica. G. P. Gubbins. 148,159; Dec. 23.
- Head, Lawn mower. E. L. Boyce. 146,333; Feb. 11.
- Heater, Electric. J. Palma, Jr. 147,417; Sept. 2.
- Heater, Space. K. P. Schory. 146,749; May 6.
- Heating apparatus. G. Schueder and W. D. Teague. 146,726; Apr. 29.
- Helicopter. A. E. Larsen. 146,798-9; May 20.
- Helicopter. F. N. Piasiecki. 146,984; June 24.
- Hobbyhorse. F. H. McClernon. 147,251; Aug. 5.
- Hobbyhorse. G. W. Walker. 147,517-18; Sept. 16.
- Hobbyhorse. G. W. Walker and B. G. Baldwin. 147,516; Sept. 16.
- Hobbyhorse, Wheeled. Lawrence Wenpetren. 146,932; June 10.
- Hoe, Wheel. J. Mader. 146,226-27; Jan. 14.
- Holder, Advertising literature. J. B. Mack, Jr. 146,978; June 24.
- Holder and ash tray, Combined napkin. C. W. Williams and C. E. Manns. 147,706; Oct. 14.
- Holder and coaster, Combined poker chip. G. W. Barlow. 147,524; Sept. 23.
- Holder and light, Combination key. A. C. Holmberg. 146,359; Feb. 13.
- Holder and perfume holder, Combined lipstick. L. J. Campbell. 147,579; Sept. 30.
- Holder, Bird cake. D. B. Hyde. 146,408; Feb. 25.
- Holder, Candle and flower. J. T. Purcell. 146,986; June 24.
- Holder, Cigarette. E. H. Cooper. 146,301; Feb. 4.
- Holder, Cigarette. V. W. Jones. 147,270; Aug. 12.
- Holder, Cigarette and match. J. D. Tuomey. 147,165; July 15.
- Holder, Cigarette package and match. J. D. Tuomey. 147,166; July 15.
- Holder, Combination toothbrush and glass. R. F. McKee. 147,292; Aug. 12.
- Holder, Combined tie, trouser, and jewelry. M. M. London. 146,831; May 27.
- Holder, Combined toothbrush and tumbler. F. D. Busker. 147,638; Oct. 14.
- Holder, Earring. S. C. and S. C. Nissen. 147,059; July 8.
- Holder, Embroidery floss. O. and B. A. Rausch. 146,233; Jan. 14.
- Holder, Flower. F. N. Moore. 146,484; Mar. 18.
- Holder for beer foam scrapers or similar article. V. A. Schmitz. 146,725; Apr. 29.
- Holder for decanter and glasses, Combined. P. Blume. 146,592; Apr. 15.
- Holder for drinking glasses, dishes and the like, Combined. J. Weber, Jr. 148,100; Dec. 9.
- Holder for picture and perfume containers, Combined. J. Joelson. 147,046; July 8.
- Holder for tableware or other articles. E. L. Shaw. 146,526; Mar. 25.
- Holder for wood matches. F. J. Murphy. 146,868; June 3.
- Holder, Key. G. L. Dreher. 147,642; Oct. 14.
- Holder, Key. O. R. Lesley. 146,976; June 24.
- Holder, Knife. J. L. Hvale. 146,222; Jan. 14.
- Holder, Lipstick. R. C. Jones. 147,619; Oct. 7.
- Holder, Lipstick. V. P. Reimer. 147,685; Oct. 14.
- Holder, Lipstick. E. L. Stempel. 147,514; Sept. 16.
- Holder, Match book. J. H. Sutton. 148,118; Dec. 16.
- Holder, Napkin. R. M. Kimmelstiel. 146,830; May 27.
- Holder, Necktie. V. T. Howard. 146,828; May 27.
- Holder or similar article, Ash tray. S. B. and J. S. Herman. 146,827; May 27.
- Holder or similar article, Card. K. P. Kellor. 148,175; Dec. 23.
- Holder or similar article, Condiment. H. J. Keener. 148,075; Dec. 9.



- Holder or similar article, Flag. I. Syverstad. 148,260; Dec. 30.
- Holder or similar article, Glass. E. Dannemann. 147,583; Sept. 30.
- Holder or the like, Ring. A. H. Ungemah. 146,239; Jan. 14.
- Holder, Perfume testing strip. A. G. Nickstadt and A. H. Moeller. 146,265; Jan. 21.
- Holder, Playing card. G. G. Brady. 147,718; Oct. 21.
- Holder, Poker chip. R. Vaccarello. 146,731; Apr. 29.
- Holder, Scarf. P. L. Hartnett. 146,794; May 20.
- Holder, Shaving brush. S. S. Wallack. 147,771; Oct. 28.
- Holder, Soap. T. R. Treiber. 147,515; Sept. 16.
- Holder, Soap cake. H. H. Gray. 146,306; Feb. 4.
- Holder, Spool. C. W. Hogan. 148,067; Dec. 9.
- Holder, Tie. O. V. Anderson. 146,758; May 13.
- Holder, Tie. O. V. Anderson. 146,842-3; June 3.
- Holder, Tie. C. Silverman. 146,194; Jan. 7.
- Holder, Toilet paper. M. K. Silvers. 147,623; Oct. 7.
- Holder, Tool and implement. A. W. Wickesberg and E. C. Klotz. 146,493; Mar. 18.
- Holder, Tooth brush. C. D'Angelo. 146,173; Jan. 7.
- Holder, Toothbrush. R. C. Fedanzo and A. S. Gagliardo. 147,843; Nov. 11.
- Holder, Toothbrush. E. T. Larkin. 147,291; Aug. 12.
- Holding dish or the like, condiment. A. P. Therrios. 148,197; Dec. 23.
- Hook, Boat. A. S. Leitner. 146,974; June 24.
- Hook, Boat. A. S. Leitner. 146,722; Apr. 29.
- Hour character for timepiece dial. C. Stern. 147,603-4; Sept. 30.
- House. R. L. Townsend. 146,625; Apr. 15.
- Housing for a loud-speaker and coin actuated mechanism. G. Phelps. 147,684; Oct. 14.
- Housing for electrical apparatus. P. Bradstock and S. S. Maier. 147,106; July 15.
- Housing, Lamp. R. Cadwallader. 146,251; Jan. 21.
- Housing, Lens. H. T. Bannister. 147,104; July 15.
- Housing, Lens. R. Cadwallader. 146,248-50; Jan. 21.
- Housing, Lens. R. Cadwallader. 146,253; Jan. 21.
- Housing, Lens. R. Cadwallader. 146,255; Jan. 21.
- Housing, Lens. R. Cadwallader. 147,108; July 15.
- Housing, Oil burner. E. Camerino. 147,888; Nov. 18.
- Housing, Oil burner. E. and W. R. Camerino. 147,488; Sept. 16.
- Housing, Picture projector. N. T. Knutson. 147,910; Nov. 18.
- Housing, Projection lamp. J. O. Reinecke. 146,620; Apr. 15.
- Housing, Toaster. C. W. Musser. 147,734; Oct. 21.
- Hydrocycle. E. Jaeger. 146,659; Apr. 22.
- Hygrometer or the like. J. L. Schwartz. 148,094; Dec. 9.
- Igniter and camera shutter synchronizer, Combined flash lamp. L. G. Tatrow. 146,390; Feb. 18.
- Inkwell. R. W. Hamilton, Jr., and J. L. King. 146,656; Apr. 22.
- Instrument, Aircraft. O. V. Phillips. 147,471; Sept. 9.
- Iron, Electric. F. Collura. 146,256; Jan. 21.
- Iron, Electric. C. Karstadt. 146,858; June 3.
- Iron, Electric. H. A. Nieboer. 146,517; Mar. 25.
- Iron, Waffle. H. E. Chambers. 147,782; Nov. 4.
- Jacket. S. Etkin. 146,792; May 20.
- Jacket. Z. Golden. 146,471; Mar. 18.
- Jacket. L. Leventhal. 146,802; May 20.
- Jacket. L. Leventhal. 146,977; June 24.
- Jacket. H. H. Stahl. 146,930; June 10.
- Jacket. J. F. Strassner. 147,690; Oct. 14.
- Jacket. J. F. Strassner. 147,695; Oct. 14.
- Jacket. J. F. Strassner. 147,698; Oct. 14.
- Jacket. J. F. Strassner. 147,822; Nov. 4.
- Jacket. J. Walker. 146,732; Apr. 29.
- Jacket, Leather. J. Greenberg and B. Fortgang. 146,472; Mar. 18.
- Jacket, Leather. J. Greenberg and B. Fortgang. 146,567; Apr. 8.
- Jacket, Leather. J. Greenberg and B. Fortgang. 147,235-6; Aug. 5.
- Jewelry finding. C. Arpels. 146,844; June 3.
- Jewelry finding. M. Chernow. 146,852; June 3.
- Jewelry finding. M. Chernow. 148,144; Dec. 23.
- Jewelry finding. C. Schrayssbuen. 146,778; May 13.
- Jewelry finding. C. Schrayssbuen. 147,422; Sept. 2.
- Jewelry finding. C. Schrayssbuen. 147,511; Sept. 16.
- Jewelry finding or similar article. M. Chernow. 147,400; Sept. 2.
- Jogger for paper sheets or the like, Vibrating. F. A. Hacker. 146,501; Mar. 25.
- Kettle, Tea. D. Chapman. 147,781; Nov. 4.
- Kettle, Tea. D. Chapman. 147,959; Nov. 25.
- Kettle, Tea. R. B. Wemyss. 146,999; June 24.
- Keyboard and tape printer for electrical computing apparatus, Combined. G. X. Lens. 146,801; May 20.
- Key, Flashlight telegraph. I. Korrol. 148,109; Dec. 16.
- Kit, Combination shoe polishing. B. A. Grae. 146,914; June 10.
- Kitchen unit, Combination. J. Oros. 147,141; July 15.
- Knife. L. Caldwell. 148,049; Dec. 9.
- Knife or similar article. F. D. Patti. 147,349; Aug. 19.
- Knife, Paper. W. H. Miller. 148,083; Dec. 9.
- Knife, Razor blade. F. A. Johnson. 147,555; Sept. 23.
- Knob, Control. B. N. Trombley. 146,327; Feb. 4.
- Knob for switches or the like, Indicating. R. Simpson. 146,269; Jan. 21.
- Knob or similar article, Tap. II. J. Austin. 147,033; July 8.
- Lace. D. Edelstein. 146,561; Apr. 8.
- Lace or similar article. O. Frei. 147,324-5; Aug. 19.
- Lace or similar article. D. Friedman. 148,158; Dec. 23.
- Lace yoke, Embroidered. II. Kaufman. 146,967-8; June 24.
- Lamp. A. F. Klingberg. 147,590; Sept. 30.
- Lamp. H. K. MacQuarrie. 148,033; Dec. 2.
- Lamp. J. O. Reinecke. 146,987; June 24.
- Lamp. H. Rubin. 146,685-6; Apr. 22.
- Lamp. N. Rudnitzky. 147,929; Nov. 18.
- Lamp. A. Somerville. 148,096; Dec. 9.
- Lamp and pencil tray, Combined. C. C. Braun. 147,636; Oct. 14.
- Lamp and radio receiving set, Combined. D. J. Crowley. 147,428-31; Sept. 9.
- Lamp base. P. Q. Peck. 147,143-4; July 15.
- Lamp, Bed. V. Nemeroff. 147,374; Aug. 26.
- Lamp, Bed. L. W. Robinson. 148,036; Dec. 2.
- Lamp for automobiles, Fog. G. C. Knight. 147,335; Aug. 19.
- Lamp, Germicidal. C. L. Beard. 146,244; Jan. 21.
- Lamp or similar article. P. E. Allen and E. W. Beatty. 147,774; Nov. 4.
- Lamp or similar article. H. W. Brooks. 146,297; Feb. 4.
- Lamp or similar article. W. Fanelli. 147,542; Sept. 23.
- Lamp or similar article. W. Fanelli. 147,722; Oct. 21.
- Lamp or similar article. A. G. Miller. 146,867; June 3.
- Lamp or similar article, Portable adjustable. W. Fanelli. 147,900; Nov. 18.
- Lamp or similar article, Wall. J. Lerman. 146,975; June 24.
- Lamp or the like, Table. A. E. Frontier. 147,040; July 8.
- Lamp, Pin-up. J. Graham. 147,269; Aug. 12.
- Lamp shade. K. O. Larson. 147,857; Nov. 11.
- Lampstand and clock, Combined electric. D. W. A. Cameron. 147,533; Sept. 23.
- Lampstand or similar article. C. F. Galehouse. 148,222-35; Dec. 30.
- Lamp standard. J. R. Crawford. 146,642; Apr. 22.
- Lamp, Surgical. J. T. Armbruster. 147,312; Aug. 19.
- Lamp, Table. R. L. Dean. 148,009; Dec. 2.
- Lamp, Table. H. K. MacQuarrie. 147,676; Oct. 14.
- Lamp, Taxicab cruising. C. D. Nelson, Jr. 147,862; Nov. 11.
- Lamp, Therapeutic. A. Simon and L. Rellinger. 147,600; Sept. 30.
- Lantern, Portable fluorescent electric. H. Harris. 147,440; Sept. 9.
- Latch, Door. S. Merendino. 146,228; Jan. 14.
- Lathe, Woodworking. L. E. Potter. 147,300; Aug. 12.
- Lavatory. R. J. Sherwin. 147,024; July 1.
- Lens, Lamp. H. T. Bannister. 147,573; Sept. 30.
- Lens, Lamp. R. Cadwallader. 146,247; Jan. 21.
- Lens, Lamp. R. Cadwallader. 146,252; Jan. 21.
- Lens, Lamp. R. Cadwallader. 146,254; Jan. 21.
- Lens, Lamp. R. Cadwallader. 147,577-8; Sept. 30.
- Light and rear view mirror, Combined signal. P. A. Chambers. 147,639; Oct. 14.
- Light for motor vehicles, Roof. H. Roeder. 146,683; Apr. 22.
- Light, Night. H. G. Tracy. 147,824; Nov. 4.
- Light, Signal. A. T. Newell. 146,807; May 20.
- Lighter. J. Keenan. 147,131; July 15.
- Lighter. R. F. Landwehr. 146,973; June 24.
- Lighter. L. Stevens. 147,253; Aug. 5.
- Lighter, Cigar and cigarette. E. W. Rector. 146,872; June 3.
- Lighter, Cigarette. R. J. Goddard and L. Dalkoff. 146,908; June 10.
- Lighter, Desk type cigarette. H. Erlanger. 147,323; Aug. 19.
- Lighter or similar article. F. Kaupmann. 146,920; June 10.
- Lighting fixture, Electric. F. Vorsanger. 147,093; July 8.
- Link chain for a bracelet or similar article. J. Goldblatt. 146,353; Feb. 18.
- Link for a bracelet or similar article. A. Katz. 147,853; Nov. 11.
- Link or similar article, Bracelet. C. Schrayssbuen. 147,509; Sept. 16.
- Loading ramp, Passenger. A. L. Varrieur and C. E. Hollyday. 146,202; Jan. 7.
- Locomotive body. E. J. Harley and L. W. Metzger. 147,178; July 22.
- Lure, Fish. L. D. Adams and N. G. Poplin. 147,101-2; July 15.
- Lure, Fish. C. H. Rooke. 148,254; Dec. 30.
- Lure, Fishing. O. C. Schaefer. 146,451; Mar. 11.
- Machine and stand, Combined bookkeeping. J. Streng. 146,388-9; Feb. 18.
- Magnifier. E. E. Van Dyke. 146,272; Jan. 21.
- Make-up unit, Lip rouge. L. J. Campbell. 147,259; Aug. 12.
- Mantel, Fireplace. A. J. Grossniklaus. 147,366; Aug. 26.
- Mantel, Fireplace. W. T. Prebis. 147,081; July 8.
- Map and clock face, Combined. A. Teiller. 147,091; July 8.
- Massaging device or similar article. L. H. Snyder. 147,932; Nov. 18.
- Mat or similar article, Place. K. C. Hamilton. 146,655; Apr. 22.



- Material or the like, Textile. J. C. Janelunas. 147,973-6; Nov. 25.
- Measuring instrument, Combination. P. W. White. 146,342; Feb. 11.
- Meat chopper. J. M. Little. 146,803; May 20.
- Meat tendering device. A. Vytant. 148,005; Dec. 2.
- Medal or similar article. T. H. Jones and A. E. Du Bois. 148,167; Dec. 23.
- Medallion. T. H. Jones. 148,166; Dec. 23.
- Medallion or similar article. A. J. Daniels. 147,228; Aug. 5.
- Medallion or similar article. H. W. Draper. 147,897; Nov. 18.
- Merchandising unit, Frozen food. A. T. Millott. 146,369; Feb. 18.
- Metal or similar flat surface material, Sheet of. H. A. Lauer. 146,721; Apr. 29.
- Meter, Gas flow. R. H. Ladd. 148,249; Dec. 30.
- Microscope. J. T. Armbruster and C. W. Barton. 148,123-4; Dec. 23.
- Mill, Coffee. G. R. Wood. 147,170; July 15.
- Mirror and stand, Combined. E. A. Kalil. 146,364; Feb. 18.
- Mirror for automobiles, Rear view. G. C. Knight. 147,799; Nov. 4.
- Mixer and container, Baby's formula. R. A. and D. L. Warren. 146,756; May 6.
- Mixer, Drink. H. W. Zimmerman. 146,782; May 13.
- Moccasin. E. W. Schaffer. 146,840; Feb. 11.
- Moccasin. L. Underberger. 148,201-2; Dec. 23.
- Moistener, Envelope. A. H. Lippman. 146,667; Apr. 22.
- Motor housing and handle for household utensils. L. H. Snyder and K. D. Yost. 148,095; Dec. 9.
- Moulding. D. J. Drischell. 148,153; Dec. 23.
- Mount, Picture. H. F. Moonert. 146,264; Jan. 21.
- Mounting, Reading glass. K. P. Silbernagel. 147,765; Oct. 28.
- Mouthpiece, Musical instrument. J. Thompson. 146,547; Apr. 1.
- Necklace. C. Arpels. 147,393; Sept. 2.
- Necklace. C. Arpels. 148,042; Dec. 9.
- Necklace. A. Philippe. 146,584; Apr. 8.
- Necklace. A. Philippe. 147,295; Aug. 12.
- Necklace or similar article. A. Katz. 147,444; Sept. 9.
- Necklace or similar article. A. Katz. 147,450; Sept. 9.
- Necklace or similar article. A. Katz. 147,454; Sept. 9.
- Necklace or similar article. A. Katz. 147,620; Oct. 7.
- Necklace or similar article. A. Katz. 147,670; Oct. 14.
- Necklace or similar article. A. Philippe. 146,925; June 10.
- Necktie. A. F. Taborski. 147,478; Sept. 9.
- Negligee. V. Giovagnoni. 147,041; July 8.
- Negligee. V. Giovagnoni. 147,232; Aug. 5.
- Negligee. S. Landan. 147,800; Nov. 4.
- Nightgown. M. O. Kenny. 146,506; Mar. 25.
- Nook, Breakfast. W. F. Horsewood. 148,242; Dec. 30.
- Nutcracker. I. Davis. 148,148; Dec. 23.
- Nut cracker or similar article. A. Welker. 148,264; Dec. 30.
- Oil bar. F. L. Ayers. 147,359; Aug. 26.
- Opener and ice pick, Combined bottle. H. Lachman. 147,732; Oct. 21.
- Opener, Jar. R. F. Glasstetter. 147,970; Nov. 25.
- Opener, Letter. J. G. Lipic. 147,593; Sept. 30.
- Opener or similar article, Envelope. W. H. Miller. 148,082; Dec. 9.
- Ornament, Christmas. K. G. Troxell. 148,262; Dec. 30.
- Ornament for handbags or the like. F. X. Hiltensbrand. 146,445; Mar. 11.
- Ornament for handbags or the like. F. X. Hiltensbrand. 146,717; Apr. 29.
- Ornament or similar article, Lapel. J. Mourar. 147,505; Sept. 16.
- Orphrey or similar article. C. M. Muench. 147,137-9; July 15.
- Orphrey or similar article. O. A. Scheurmann. 147,351-3; Aug. 19.
- Package for soap powder or similar commodity. N. H. Whitlock. 147,096; July 8.
- Packing for fragile articles. E. L. Shepard. 147,025; July 1.
- Paddle, Bathing spray. A. Ferrera. 147,844; Nov. 11.
- Palette, Color harmony. E. F. Crane. 148,103; Dec. 16.
- Palette unit. S. W. Clippard. 146,348; Feb. 18.
- Pan or similar article, Sauce. A. F. Ransthal. 146,520; Mar. 25.
- Paper or the like. E. A. Whiteford. 147,223; July 29.
- Paper or the like, Wrapping. R. E. Sachs. 146,192; Jan. 7.
- Peeler, Citrus fruit. A. E. Roy. 147,687; Oct. 14.
- Peg board. O. F. Larsen, Jr. 147,340; Aug. 19.
- Pen, Fountain. C. T. Breitenstein. 147,107; July 15.
- Pen, Fountain. H. W. Burge. 148,129; Dec. 23.
- Pen, Fountain. R. H. Colomy. 146,335; Feb. 11.
- Pen, Fountain. I. Florman. 146,214-15; Jan. 14.
- Pen, Fountain. W. Green and P. Schladermundt. 146,176; Jan. 7.
- Pen, Fountain. L. Moholy-Nagy. 146,806; May 20.
- Penholder or similar article. H. O. Sandberg. 146,434; Mar. 4.
- Pen or the like with safety guard, Fountain. T. D. Flanagan. 147,263; Aug. 12.
- Pencil. G. J. Blakeman. 147,885; Nov. 18.
- Pencil. R. J. Lynn. 147,982; Nov. 25.
- Pencil and cigarette lighter, Combined. S. Fiedler. 148,218; Dec. 30.
- Pencil, Draftsman's. E. Shetlin. 146,527; Mar. 25.
- Pendant. S. Jacobson. 148,022; Dec. 2.
- Pendant. G. J. Lederer. 146,942-3; June 17.
- Pendant or similar article. O. Guth. 147,217; July 29.
- Pendant or similar article. C. Schrayssshuen. 147,992-3; Nov. 25.
- Phonograph pickup arm. K. Emde and G. B. Vernier. 146,562; Apr. 8.
- Photographic, Printer or the like. C. E. Breen. 147,317; Aug. 19.
- Piano. G. W. Cushing. 148,145-6; Dec. 23.
- Piano. W. Zaiser. 146,243; Jan. 14.
- Piano. W. Zaiser. 146,888-91; June 3.
- Piano or similar article. A. P. Brown. 146,637-9; Apr. 22.
- Piano or similar article. A. P. Brown. 147,426; Sept. 9.
- Piano or similar article. V. Colangelo. 147,427; Sept. 9.
- Pin. M. Boucher. 147,525; Sept. 23.
- Pin. M. Boucher. 147,887; Nov. 18.
- Pin. A. Langella. 148,176; Dec. 23.
- Pin. G. J. Lederer. 147,051-3; July 8.
- Pin. C. T. Parisi. 147,060; July 8.
- Pin clip or similar article. A. Philippe. 148,185; Dec. 23.
- Pin, Clothes. M. Maccaferri. 147,803-4; Nov. 4.
- Pincushion and spool holder, Combined. M. B. McCall. 146,182; Jan. 7.
- Pin, Jewelry. K. M. Dunn. 146,350; Feb. 18.
- Pin, Lapel. F. J. Pearsall. 146,678-9; Apr. 22.
- Pin, Lapel. F. J. Pearsall. 146,775-6; May 13.
- Pin, Lapel. F. J. Pearsall. 147,679-83; Oct. 14.
- Pin or similar article. M. Boucher. 146,276; Jan. 28.
- Pin or similar article. M. Boucher. 147,396; Sept. 2.
- Pin or similar article. M. Boucher. 147,398-9; Sept. 2.
- Pin or similar article. M. Boucher. 147,830; Nov. 11.
- Pin or similar article. M. Boucher. 147,951-4; Nov. 25.
- Pin or similar article. G. E. Fearn. 146,900; June 10.
- Pin or similar article. P. Kaufman. 146,282; Jan. 28.
- Pin or similar article. P. Kaufman. 147,750-2; Oct. 28.
- Pin or similar article. P. Kaufman. 147,793-5; Nov. 4.
- Pin or similar article. P. Kaufman. 147,855; Nov. 11.
- Pin or similar article. G. S. Lawson. 148,111-12; Dec. 16.
- Pin or similar article. R. S. Mason and T. Cain. 146,671; Apr. 22.
- Pin or similar article. M. Paschman. 146,870-1; June 3.
- Pin or similar article. M. Paschman. 147,142; July 15.
- Pin or similar article. O. Pennino. 147,762; Oct. 28.
- Plate or similar article. W. O. Prouty. 146,585; Apr. 8.
- Pin or similar article. M. Slater. 146,751-4; May 6.
- Pin or similar article. M. Slater. 146,950; June 17.
- Pin or similar article. A. Strait. 146,813; May 20.
- Pin or similar article, Brooch. A. Axel. 146,425; Mar. 4.
- Pin or similar article, Costume jewelry. F. Gallo. 146,444; Mar. 11.
- Pin or similar article, Jewelry. L. J. Campbell. 146,896; June 10.
- Pin or similar article, Jewelry. L. J. Campbell. 147,362; Aug. 26.
- Pin or similar article, Jewelry. J. Marsella. 146,482; Mar. 18.
- Pin or similar article, Jewelry. J. J. Marsella. 146,184; Jan. 7.
- Pin or similar article, Jewelry. J. J. Marsella. 146,186; Jan. 7.
- Pin or similar article, Jewelry. J. J. Marsella. 147,465; Sept. 9.
- Pin or similar article, Jewelry. J. J. Marsella. 147,915-19; Nov. 18.
- Pipe. R. V. Barberian. 147,034; July 8.
- Pipe. A. E. Christensen. 147,035; July 8.
- Pipe. P. S. Harper. 148,237; Dec. 30.
- Pipe or similar article, Smoking. A. R. Schwan and J. P. Clymer. 147,689; Oct. 14.
- Pipe, Smoking. A. A. Atchison. 147,172; July 22.
- Pipe, Smoking. E. W. Baxter. 146,209; Jan. 14.
- Pipe, Smoking. C. C. Renz. 147,315; Aug. 19.
- Pipe, Smoking. A. R. Mellor. 146,866; June 3.
- Pipe, Tobacco. F. J. Danilowicz. 147,960; Nov. 25.
- Pipe, Tobacco smoking. F. J. Danilowicz. 147,363; Aug. 26.
- Piping template. W. H. Skewis. 147,026; July 1.
- Pistol, Water. E. A. Crumb. 147,893; Nov. 18.
- Pitcher. R. J. Falk. 147,541; Sept. 23.
- Pitcher. H. T. Homan. 148,165; Dec. 23.
- Pitcher, Covered. J. L. Sager. 147,304; Aug. 12.
- Pitcher, Milk. R. J. Falk. 148,056; Dec. 9.
- Plaque. C. H. Kratz. 147,980; Nov. 25.
- Plaque. W. Sabelis. 148,093; Dec. 9.
- Plaque. G. W. Wahrer. 147,388; Aug. 26.
- Plaque or similar article. T. T. Oates. 147,925; Nov. 18.
- Plate, Dinner. J. Hackley. 146,940; June 17.
- Plate, Door. M. S. Holmquist. 147,045; July 8.
- Plate for an automobile or similar article, Identification. V. Salem. 147,871; Nov. 11.
- Plate or similar article. H. A. Malinowski. 146,514; Mar. 25.
- Plate or similar article. R. V. Shanklin, Jr. 146,589; Apr. 8.
- Plate or similar article, Switch. J. A. Sposith. 148,116; Dec. 16.



- Platform, Portable passenger loading. P. G. Dorrier. 147,745; Oct. 28.
- Platter or similar article. A. F. Ransthal. 146,519; Mar. 25.
- Playground apparatus. P. A. Cosme. 146,557; Apr. 8.
- Playground apparatus. P. A. Cosme. 147,006; July 1.
- Player or similar article, Record. I. Strauss and G. O. Kaye. 146,199; Jan. 7.
- Plug, Electric wall. W. T. Gossard. 148,105; Dec. 16.
- Plug, Electrical connector. S. Bindman. 147,634; Oct. 14.
- Pocket, Wall. F. Diamond. 148,053; Dec. 9.
- Pole, Beauty shop. J. E. Garriss. 147,723; Oct. 21.
- Polisher, Floor. De W. Clausen. 147,890; Nov. 18.
- Polisher, Floor. Te L. Tchang. 147,309; Aug. 12.
- Polishing head. M. Leach. 148,077; Dec. 9.
- Potholder, Wall flower. O. F. Evans. 146,466; Mar. 18.
- Power unit of an electric appliance or the like, Encased. H. S. Preble, Jr. 147,207; July 22.
- Prayer rail or similar article. H. N. Math. 147,503; Sept. 16.
- Press, Drill. J. M. Little. 146,608; Apr. 15.
- Projection machine. A. J. Bradford. 147,831-2; Nov. 11.
- Projector, amplifier and loudspeaker, Combined sound motion picture. G. A. del Valle. 146,704; Apr. 29.
- Projector and sound reproducer, Combination. R. H. Larson. 146,411; Feb. 25.
- Projector, Art. J. W. Decker. 147,118; July 15.
- Projector, Motion-picture. E. S. Carpenter. 146,171; Jan. 7.
- Projector, Photographic film. A. M. Davock. 147,212; July 29.
- Projector, Picture. A. J. Bradford. 146,935; June 17.
- Protector, Shoe. E. A. Howard. 147,010-11; July 1.
- Puller, Cork. J. E. Peterson. 146,833; May 27.
- Pump, Grease. H. A. Lange. 146,260; Jan. 21.
- Purse or similar article, Pin-on. E. B. Steinberg and D. M. Scott. 147,625; Oct. 7.
- Purse or similar article, Pin-on. E. B. Steinberg and D. M. Scott. 147,736; Oct. 21.
- Purse, Woman's. S. Spielberg. 147,152; July 15.
- Putter head. S. N. Liolich. 146,431; Mar. 4.
- Rack and desk unit, Combination pen. P. Rossi. 146,875-6; June 3.
- Rack and light fixture, Combined luggage. L. R. Phillips. 146,982-3; June 24.
- Rack and lighting fixture, Combined luggage. A. L. Arenberg. 148,208; Dec. 30.
- Rack, Book. M. Fine. 147,845; Nov. 11.
- Rack, Card and poker chip. E. K. Millhauser. 146,805; May 20.
- Rack, Display. F. Kramer. 147,591; Sept. 30.
- Rack, Display. J. O. Reinecke. 147,084; July 8.
- Rack, Draftsman's instrument. J. Fresco. 146,470; Mar. 18.
- Rack or similar article, Spool display. C. S. Olsen. 146,869; June 3.
- Rack or similar article, Tie. E. L. Persons. 147,418; Sept. 2.
- Rack or similar article, Wall. L. Lonstein. 147,675; Oct. 14.
- Rack, Pipe. F. H. Fisher. 147,216; July 29.
- Radiator, Heating. G. W. Zimelman. 148,206; Dec. 23.
- Radio and smoking stand, Combined. L. Bernstein. 147,609; Oct. 7.
- Radio, clock, and bed lamp, Combined. M. F. Valinski and E. W. Leyve. 146,548; Apr. 1.
- Radio receiver. L. Knipf, Jr. 146,664; Apr. 22.
- Radio receiver. N. B. Wales. 146,391; Feb. 18.
- Raincoat or similar article. M. Blandino. 148,127; Dec. 23.
- Raincoat or similar article. A. Gruber. 147,173; July 22.
- Raincoat or similar article. A. Gruber. 147,971; Nov. 25.
- Range, Cooking. W. Bauer. 147,486; Sept. 16.
- Range top and back guard assembly, Combined. R. E. Kruck. 147,338; Aug. 19.
- Rattle and teething ring doll, Combined. E. L. Hyman. 147,852; Nov. 11.
- Razor. J. E. Doss, Jr. 148,152; Dec. 23.
- Razor casing or similar article, Safety. C. P. Hornung. 146,916; June 10.
- Razor casing or similar article, Safety. C. P. Hornung. 146,918; June 10.
- Razor, Disposable. A. D. Brown. 146,759; May 13.
- Razor or similar article, Safety. C. P. Hornung. 146,915; June 10.
- Razor or similar article, Safety. C. P. Hornung. 146,917; June 10.
- Receiver or similar article, Radio. M. J. Simons. 148,192; Dec. 23.
- Receptacle, Condiment. J. P. Kaminski. 147,731; Oct. 21.
- Receptacle, Covered. W. C. Bundy. 146,405; Feb. 25.
- Receptable, Disposal. I. M. Footlik. 147,646; Oct. 14.
- Receptable, Packing and carrying. M. J. McKee. 147,677; Oct. 14.
- Record player and radio, Combination. C. A. Peterson. 148,184; Dec. 23.
- Recorder, or similar article, Magnetic. W. C. Nichols. 146,373; Feb. 18.
- Recorder or similar article, Magnetic. W. C. Nichols. 146,417; Feb. 25.
- Recorder or similar article, Magnetic. W. C. Nichols. 146,675; Apr. 22.
- Reel, Hose. E. S. Marsh. 147,372; Aug. 26.
- Refrigerator. A. G. Hansen. 146,541; Apr. 1.
- Refrigerator. R. H. Money. 147,921-2; Nov. 18.
- Refrigerator. W. L. Morrison. 146,314; Feb. 4.
- Refrigerator. F. P. Rothert. 147,252; Aug. 5.
- Refrigerator and food freezing unit, Combination. A. O. Boyce. 148,212; Dec. 30.
- Register, Portable autographic. W. D. Teague. 147,626; Oct. 7.
- Ring. H. L. Shainfeld. 147,476; Sept. 9.
- Ring, Finger. L. Baranow. 146,783; May 20.
- Ring, Finger. D. E. Carlson. 148,213; Dec. 30.
- Ring, Finger. F. P. Kinsley. 146,448; Mar. 11.
- Ring, Finger. A. Nalick. 147,923; Nov. 18.
- Ring, Finger. G. P. Wagner. 147,571; Sept. 23.
- Ring or similar article, Finger. J. Fleischer. 147,264; Aug. 12.
- Ring or similar article, Finger. J. Fleischer. 147,786; Nov. 4.
- Ring or similar article, Finger. C. Robbins. 146,524; Mar. 25.
- Rock, Child's. B. Bellville. 146,894; June 10.
- Roller, Matrix. G. R. Steele. 146,546; Apr. 1.
- Rosary. G. R. Burk. 147,956; Nov. 25.
- Rosary of the stations of the cross. J. C. Kelley. 146,577; Apr. 8.
- Rotary blotting device. E. J. J. Henriksen. 147,729; Oct. 21.
- Rotor for ultra-centrifuge machines, Analytical. J. Grebmeier. 148,062; Dec. 9.
- Rubbing machine or the like, Electric portable. S. A. Crosby and P. Zasady. 147,783; Nov. 4.
- Saddle. W. D. Allison. 146,398; Feb. 25.
- Sadiron, Electric. M. J. Denning. 146,705; Apr. 29.
- Sandal. A. N. Steyne. 146,325; Feb. 4.
- Sandal, Infant's. B. L. Veach. 147,311; Aug. 12.
- Sandal or similar article. J. F. Steel. 147,308; Aug. 12.
- Sanding machine or the like, Floor. F. J. Koenig. 147,502; Sept. 16.
- Saucepan, Covered. R. B. Wemyss. 147,937; Nov. 18.
- Saw or similar article, Bone cutting. D. Dohm, Jr. 146,737; May 6.
- Scale, Weighing. J. Watling. 148,004; Nov. 25.
- Scarf. I. Bartlett. 146,821; May 27.
- Scarf. R. Gottschalk. 146,825-6; May 27.
- Scarf or similar article. G. R. Davis. 146,643; Apr. 22.
- Scarf or similar article. H. Rosenbaum. 146,190-1; Jan. 7.
- Scissors, Pair of. C. Laroque. 147,801; Nov. 4.
- Sconce. F. Diamond. 147,538; Sept. 23.
- Scoop for popcorn, candies, peanuts, etc. A. Kloth. 147,459; Sept. 9.
- Scooter. J. D. Wheeler. 148,266; Dec. 30.
- Scooter, Motorized. J. H. Reed. 147,472; Sept. 9.
- Scooter or similar article. F. Brogan. 148,046; Dec. 9.
- Scoring tee. D. A. David. 147,260; Aug. 12.
- Screen or the like. K. J. Wolf. 146,933; June 10.
- Seat or similar article, Child's. C. H. Hasche. 147,387; Aug. 26.
- Seat or similar article, Child's car. D. Bitter. 147,884; Nov. 18.
- Seat or similar article, Love. J. W. Noll. 146,981; June 24.
- Seat, Suitcase. P. J. Gormley. 147,788; Nov. 4.
- Separator, Egg. W. V. Smith. 147,307; Aug. 12.
- Server and opener or similar article, Combined egg. J. Mooss. 146,370; Feb. 18.
- Service station. A. H. Jaehne. 147,239; Aug. 5.
- Serving utensil and ash tray, Combined. C. R. Vigars. 146,886; June 3.
- Set, Salt and pepper. R. J. Hansen and O. W. Hamilton. 147,728; Oct. 21.
- Sewing machine. F. Gegauf. 146,539; Apr. 1.
- Shade or similar article, Lamp. A. Rigolo. 146,873; June 3.
- Shaker, Cocktail. A. Cravaritis. 147,113; July 15.
- Shaker, Cocktail. P. Meshberg. 148,179; Dec. 23.
- Shaker, Condiment. R. J. Falk. 147,899; Nov. 18.
- Shaker, Condiment. N. J. Mangini. 146,979; June 24.
- Shaker or similar article, Condiment. J. B. McKee. 146,804; May 20.
- Sharpener, Knife. R. B. Lambert. 146,921; June 10.
- Sharpener, Pencil. J. Ness. 147,863-4; Nov. 11.
- Sharpener, Pencil. A. M. Rapoport. 147,867; Nov. 11.
- Sharpener, Pencil. G. J. Staab. 146,197; Jan. 7.
- Shaver, Dry. H. E. Page. 147,807; Nov. 4.
- Shears, Safety. E. A. O'Brien. 147,416; Sept. 2.
- Shelf. C. A. Goddard. 146,279-80; Jan. 28.
- Shirt. M. M. Brohard. 146,895; June 10.
- Shirt. A. Dunner. 148,217; Dec. 30.
- Shirt or similar article, Polo. E. Guttman. 147,174-7; July 22.
- Shoe. J. M. Carpenter. 147,318; Aug. 19.
- Shoe. B. V. Fister. 146,363; Feb. 4.
- Shoe. G. K. Guinsburg. 147,848; Nov. 11.
- Shoe. G. K. Guinsburg. 148,106; Dec. 16.
- Shoe. J. Henkel. 146,356-8; Feb. 18.
- Shoe. J. Henkel. 146,768; May 13.
- Shoe. J. J. Hickey. 146,714-15; Apr. 29.
- Shoe. E. O. Pielens. 146,432; Mar. 4.
- Shoe. C. Reggie. 146,521; Mar. 25.
- Shoe. J. Sandler. 147,379-81; Aug. 26.
- Shoe. J. Sandler. 148,115; Dec. 16.



- Shoe. M. S. Silver. 146,929; June 10.  
 Shoe. K. A. Stritter. 147,356; Aug. 19.  
 Shoe. L. C. Tullgren. 146,438; Mar. 4.  
 Shoe. H. J. von Baudissin. 146,423; Feb. 25.  
 Shoe. J. J. Walsh. 147,628; Oct. 7.  
 Shoe clog. L. C. Tullgren and J. S. Bonkiewicz. 146,885; June 3.  
 Shoe or similar article. U. Chaplain. 147,003; July 1.  
 Shoe or similar article. B. V. Fister. 148,219; Dec. 30.  
 Shoe or similar article. S. L. Kleven. 146,662-3; Apr. 22.  
 Shoe or similar article. E. Z. Lipare. 147,249-50; Aug. 5.  
 Shoe or similar article, Man's sport. R. A. Parker. 146,774; May 13.  
 Shoe, Roller. J. E. McCaffrey. 146,368; Feb. 18.  
 Shoe sole. V. M. Knisely. 147,412-13; Sept. 2.  
 Shoe tree. M. L. Sturm. 147,156; July 15.  
 Shop or the like, Roadside. A. H. Valentine. 147,881; Nov. 11.  
 Showcase. J. B. Platt. 146,926; June 10.  
 Show case or the like, Merchandise. P. M. Rössinger. 146,522; Mar. 25.  
 Shower head and water temperature indicator, Combined. S. D. Harmon. 146,308; Feb. 4.  
 Shrine or similar article and case therefor, Combined. W. T. Jones. 147,240; Aug. 5.  
 Shroud for windshield wiper arm. F. A. Krohm. 146,972; June 24.  
 Shroud for windshield wiper arm. T. J. Smulski. 146,990; June 24.  
 Shuttlecock. F. Bentley. 146,460; Mar. 18.  
 Sign exhibitor. H. S. Taylor. 147,823; Nov. 4.  
 Signal, Chime. N. Abramson. 146,550; Apr. 8.  
 Sink. A. Harder. 147,748; Oct. 28.  
 Sink. L. Keller. 147,332-4; Aug. 19.  
 Skirt or similar article. A. Sternberger. 146,835; May 27.  
 Sled. H. J. Barrett. 146,934; June 17.  
 Sled. W. Flajole. 148,016; Dec. 2.  
 Sled. J. B. Kitttridge. 148,108; Dec. 16.  
 Sled or the like, Snow. J. L. Turner. 146,626; Apr. 15.  
 Sled, Single runner. W. Flajole. 148,015; Dec. 2.  
 Slicer or the like, Butter. H. B. Cohen. 147,401; Sept. 2.  
 Slipper. T. M. Carpenter. 146,735; May 6.  
 Slipper. G. Cohn. 146,700-2; Apr. 29.  
 Slipper. A. E. Pfeiffer. 147,294; Aug. 12.  
 Slipper. M. S. Silver. 147,995; Nov. 25.  
 Slipper. H. Waters. 146,392; Feb. 18.  
 Slipper, Child's. J. J. Vogl. 147,424; Sept. 2.  
 Slipper, Child's high-top. R. J. Kienzle. 147,411; Sept. 2.  
 Slipper or similar article. D. F. Groves. 147,549; Sept. 23.  
 Snuffer, Cigarette. O. E. Sovereign. 148,256; Dec. 30.  
 Soap, Bar of. F. Fredericks. 147,438; Sept. 9.  
 Sole, Shoe. W. E. Kavenagh. 146,504-5; Mar. 25.  
 Sole, Shoe. J. E. Ryan. 146,724; Apr. 29.  
 Sole, Shoe. A. E. Shaffer. 147,383; Aug. 26.  
 Spacer, Letter tray. F. E. Kobler. 146,259; Jan. 21.  
 Speaker. R. S. Latham. 147,941; Aug. 19.  
 Speaker housing. B. W. Lowell, Jr. 146,863; June 3.  
 Spectacles, Pair of. S. Harris and W. H. Belz. 147,124; July 15.  
 Spectacles, Pair of. R. Myers. 146,416; Feb. 25.  
 Spoon. J. L. Goodwin. 146,824; May 27.  
 Spoon or analogous article. C. B. Blake. 146,494; Mar. 25.  
 Spoon or other article of flatware. K. Geiger. 146,304; Feb. 4.  
 Spoon or other article of flatware. W. F. Moran. 147,016; July 1.  
 Spoon or similar article. A. Adler. 146,165; Jan. 7.  
 Spotlight or similar article. W. A. Mendelsohn. 147,733; Oct. 21.  
 Spotlight, Photographic. M. M. Robinson. 146,809; May 20.  
 Spray gun attachment for vacuum cleaners. R. E. Harvuot. 148,162; Dec. 23.  
 Spray head, Bath. C. T. Manville and P. S. Madsen. 146,864; June 3.  
 Sprayer. H. E. Brandt. 147,226; Aug. 5.  
 Sprinkler, Lawn. G. S. Parker. 148,035; Dec. 2.  
 Squeezer, Fruit. O. L. Godwin. 146,909; June 10.  
 Staircase. F. J. Zavada. 147,099-100; July 8.  
 Stand. C. S. Gray. 147,902; Nov. 18.  
 Stand. H. E. Levings. 147,674; Oct. 14.  
 Stand and container, Combined display. B. Zimmern. 147,947; Nov. 18.  
 Stand, Ash tray. L. Capitani. 147,958; Nov. 25.  
 Stand, Display. E. Hollander. 148,164; Dec. 23.  
 Stand, Display. L. P. Shield. 146,386-7; Feb. 18.  
 Stand for holding cosmetics and similar articles. J. W. Wheeler. 146,887; June 3.  
 Stand for wall and floor coverings or the like, Display. C. E. Stephenson. 146,198; Jan. 7.  
 Stand, Lamp. S. Matzner. 146,672; Apr. 22.  
 Stand or similar article, Display. B. Matuzoff. 146,515-16; Mar. 25.  
 Stand or similar article, Portable passenger loading. J. L. Olivarez. 146,418; Feb. 25.  
 Stand or the like, Electric lamp. J. F. Chamness. 146,555-6; Apr. 8.  
 Stand, Picture. J. J. Swartzmiller. 146,530; Mar. 25.  
 Stand, Smoking. F. T. Paden. 147,293; Aug. 12.  
 Stapling appliance. C. M. Lindstrom. 148,032; Dec. 2.  
 Stapling machine. H. C. Ide. 147,972; Nov. 25.  
 Station, Automobile service. C. A. Petersen. 147,468-70; Sept. 9.  
 Statuette. W. E. Heaberlin. 148,163; Dec. 23.  
 Statuette. T. E. Stanley. 148,257; Dec. 30.  
 Statuette. B. L. Wyatt. 147,740; Oct. 21.  
 Statuette, Dog. S. R. Carr. 146,298; Feb. 4.  
 Stein. J. Gmeindl. 146,540; Apr. 1.  
 Stem, Pipe. P. S. Harper. 148,238; Dec. 30.  
 Step device, Infants'. E. M. Raffman, Jr. 147,350; Aug. 19.  
 Stole, Cape. H. Hoch. 147,790; Nov. 4.  
 Stool. C. Eames. 147,614; Oct. 7.  
 Store front. F. Butterworth. 146,554; Apr. 8.  
 Stove. L. R. Reynolds. 146,523; Mar. 25.  
 Stove, Cooking. A. Zeller, Jr. 147,940; Nov. 18.  
 Strap, Dog play. J. S. Mahler. 146,367; Feb. 18.  
 Stroller. G. A. Schaub. 146,811; May 20.  
 Strop, Razor blade. E. T. New. 148,181; Dec. 23.  
 Suit. S. Cohen. 147,784; Nov. 4.  
 Suit. S. Cohen. 148,050; Dec. 9.  
 Suit. M. Frascino. 146,766; May 13.  
 Suit. J. Freedman. 146,217-19; Jan. 14.  
 Suit. J. Freedman. 146,767; May 13.  
 Suit. J. Freedman. 146,902; June 10.  
 Suit. J. Freedman. 148,060; Dec. 9.  
 Suit. H. Goldberg. 146,220; Jan. 14.  
 Suit. J. P. Strassner. 147,694; Oct. 14.  
 Suit. J. Walker. 146,817; May 20.  
 Suit. J. Walker. 146,952-3; June 17.  
 Suitcase. R. B. Wemyss. 147,825; Nov. 4.  
 Suit or the like, Swimming. M. F. Laszlo. 147,592; Sept. 30.  
 Suit, Slack. A. Lathrop. 147,013; July 1.  
 Sundial and bird bath, Combination. G. Vinnedge. 146,840; May 27.  
 Sunglasses, Pair of. L. A. Villanueva. 147,168; July 15.  
 Support, Electric light. E. Tanchuck. 148,098-9; Dec. 9.  
 Support, Watch. J. E. Bartlett. 147,002; July 1.  
 Supporter, Hose. S. W. Leming. 146,923; June 10.  
 Sweater, Infant's. E. P. Johnson. 147,408; Sept. 2.  
 Sweater or similar article. E. Guttman. 148,160-1; Dec. 23.  
 Sweater or similar article. A. Naidish. 146,286-7; Jan. 28.  
 Sweater or similar article. A. Naidish. 146,613; Apr. 15.  
 Sweater or similar article. A. Naidish. 147,220; July 29.  
 Switch escutcheon. J. D. McDonald. 148,080; Dec. 9.  
 Table. L. A. Cutrow. 147,114; July 15.  
 Table. L. A. Cutrow. 147,534; Sept. 23.  
 Table. C. Eames. 147,613; Oct. 7.  
 Table. H. E. Prem. 147,507; Sept. 16.  
 Table. W. E. Reynolds. 147,990; Nov. 25.  
 Table. W. C. Ross. 146,684; Apr. 22.  
 Table. W. I. Smith. 147,820; Nov. 4.  
 Table and chairs, Unit combination dining. T. L. Williamson and H. A. Nettles. 147,772; Oct. 28.  
 Table and score projector, or similar article, Combined score. R. I. Anderson and B. Hoeker. 147,211; July 29.  
 Table caster. L. Chazin. 146,850; June 3.  
 Tablecloth, Lace. H. Hooven. 146,569-71; Apr. 8.  
 Tablecloth, Lace. F. P. Otto. 146,582-3; Apr. 8.  
 Tablecloth or similar article. V. Helsley. 146,657; Apr. 22.  
 Tablecloth or similar article. R. H. Hubner. 146,572; Apr. 8.  
 Tablecloth or similar article. R. Laessig. 146,579; Apr. 8.  
 Tablecloth or similar article. J. S. Madsen. 146,669; Apr. 22.  
 Tablecloth or similar article. J. S. Madsen. 147,342; Aug. 19.  
 Tablecloth or similar article. L. G. Rohner. 146,586-8; Apr. 8.  
 Table, Kitchen. A. Bach. 146,845-6; June 3.  
 Table, Kitchen. H. B. Maynard and C. W. Puntun. 147,414; Sept. 2.  
 Table, Occasional. L. and N. Appell. 147,775; Nov. 4.  
 Table or similar article, Night. G. E. Obrig. 146,377; Feb. 18.  
 Table or the like, Billiard. R. I. Anderson and B. Hoeker. 148,119-20; Dec. 23.  
 Table, Surgical. R. Anderson. 147,741; Oct. 28.  
 Table, Vanity. W. A. Tomlinson and R. W. Neville. 148,198; Dec. 23.  
 Table, Work. L. L. Nieman. 147,806; Nov. 4.  
 Tablet, Memorial. A. Figatner. 147,403; Sept. 2.  
 Tank for dishwashing apparatus, Detergent supply. E. M. Morehouse. 147,136; July 15.  
 Tank for vacuum cleaners, Sled equipped. R. S. Flannigan. 147,644; Oct. 14.  
 Tank, Portable developing. J. R. Carpenter. 146,760; May 13.  
 Tank, Vacuum cleaner. J. B. Kirby. 146,180; Jan. 7.  
 Tape-dispensing machine. H. H. Hillmer. 147,716; Apr. 29.  
 Teapot. R. J. Falk. 147,436; Sept. 9.  
 Teapot or similar article. J. Brunetti. 146,593; Apr. 15.  
 Teeter-totter. P. Buczkowski. 146,168; Jan. 7.  
 Telescope or the like. E. F. Flint. 148,017; Dec. 2.  
 Template, House plan. G. B. Wiley. 147,705; Oct. 14.  
 Temple for spectacles. B. Jaffe. 146,601-3; Apr. 15.  
 Tenplet, Draftsman's. J. R. Cambron. 147,743; Oct. 28.



- Tenderer machine, Steak. A. W. Mueller. 147,678; Oct. 14.
- Textile fabric. H. W. Wilde. 147,358; Aug. 19.
- Textile fabric or similar article. R. E. Minger. 147,563; Sept. 23.
- Thermometer. R. C. Wappner. 146,439-41; Mar. 4.
- Thermometer casing. E. P. Dobrin. 147,539; Sept. 23.
- Ticketing machine, Pin. W. Schrem. 148,190; Dec. 23.
- Tie clasp, Chain. D. L. Tandy. 146,815; May 20.
- Timetable. R. D. Roselle. 147,017; July 1.
- Timer, Toothbrush. R. R. Hitt. 146,309; Feb. 4.
- Tire, Aerodynamic. A. K. Peterson. 146,486; Mar. 18.
- Tire spreader, Portable. H. W. Darr. 147,116; July 15.
- Tire support and inspection light, Combined. H. W. Darr. 147,115; July 15.
- Toaster. G. McS. Jackson. 147,407; Sept. 2.
- Toaster and hot plate or similar article, Combined. O. M. Voiles. 147,169; July 15.
- Toaster or similar article. W. Geller. 148,104; Dec. 16.
- Toaster, storage compartment, and sugar and cream containers, Combination electric. W. Flajole. 147,498; Sept. 16.
- Toilet seat, Child's. W. J. Dunn and R. R. Richolt. 147,321; Aug. 19.
- Tombstone. S. G. McNatton. 147,371; Aug. 26.
- Tongs, Barbecue. F. K. Storm. 146,728; Apr. 29.
- Tool chuck head or similar article, Rotary. A. A. Bamberger. 148,210-11; Dec. 30.
- Tool, Combination fish scaling and cutting. A. Pelka and O. A. Nylund. 146,614; Apr. 15.
- Tool, Combination kitchen utensil. H. Wolf. 147,773; Oct. 28.
- Tool for vacuum cleaners, Crevice. R. E. Harvuot. 147,125; July 15.
- Tool, Pipe threading. T. R. Jones. 146,409; Feb. 25.
- Toothbrush. R. W. Stavely. 146,271; Jan. 21.
- Toothbrush and container therefor, Combined folding. T. R. Stacey and R. H. Lesner. 147,996; Nov. 25.
- Toothpick. E. L. Johnson. 147,977-8; Nov. 25.
- Top for motor vehicles, Folding. A. Keller. 147,458; Sept. 9.
- Towboat. J. D. McMichael, Jr. 147,343-4; Aug. 19.
- Toy airplane. J. J. Miller. 146,580; Apr. 8.
- Toy animal figure. E. Gordon and H. Sanders. 147,365; Aug. 26.
- Toy animal figure. E. E. Wetmore. 147,826; Nov. 4.
- Toy automobile. E. R. Doak and N. E. Grace. 146,465; Mar. 18.
- Toy, Balancing. D. M. Desiderio. 147,961; Nov. 25.
- Toy, Balancing. S. F. Gilham. 148,061; Dec. 9.
- Toy bank. A. W. Arneham. 147,714; Oct. 21.
- Toy bird. C. Rouse. 147,378; Aug. 26.
- Toy bird figure, Activated. R. T. Plate. 146,744; May 6.
- Toy boat. A. Rubenstein. 148,037; Dec. 2.
- Toy breakfront or similar article. I. Rosenbloom. 147,019; July 1.
- Toy cat or the like. C. R. Bailey. 146,892; June 10.
- Toy chest and table, Child's combined. D. Mellick. 146,611; Apr. 15.
- Toy chest, Child's. D. Mellick. 146,610; Apr. 15.
- Toy, Clock figure. H. A. Tomarin. 146,531; Mar. 25.
- Toy dog. M. Berger. 146,426; Mar. 4.
- Toy dog. E. P. Hall. 147,585; Sept. 30.
- Toy dog. B. M. Lochridge. 147,219; July 29.
- Toy dog or the like. H. A. Mauney. 146,483; Mar. 18.
- Toy dump truck. O. F. Larsen, Jr. 146,508; Mar. 25.
- Toy elephant, Stuffed. D. M. Pierce. 147,988; Nov. 25.
- Toy ferryboat. O. F. Larsen, Jr. 146,509; Mar. 25.
- Toy, Figure. J. F. Mitchell and S. S. Brown. 146,946; June 17.
- Toy fish or similar article. C. R. White. 147,629; Oct. 7.
- Toy, Floating. J. H. Wright. 146,442; Mar. 4.
- Toy goose. G. J. Provol. 146,834; May 27.
- Toy gun. W. C. Hooper. 146,502; Mar. 25.
- Toy helicopter. F. Mitschang. 146,187; Jan. 7.
- Toy, Helicopter. T. F. Stout. 147,513; Sept. 16.
- Toy helicopter or similar article. G. A. Newman. 146,189; Jan. 7.
- Toy high chair. W. P. Zegel. 146,820; May 20.
- Toy horse. M. Berger. 146,427; Mar. 4.
- Toy, Marble-game. J. W. Carter and A. E. Saunders. 146,787; May 20.
- Toy, Matching. S. L. Beder. 146,296; Feb. 4.
- Toy, Multiple wheeled pull. O. F. Larsen, Jr. 146,507; Mar. 25.
- Toy, Musical string. P. A. Mosco. 147,761; Oct. 28.
- Toy or similar article, Child's animal. G. Winston. 147,210; July 22.
- Toy or similar article, Crib. M. M. Backelman. 147,776; Nov. 4.
- Toy, Pile driver. H. Reel. 146,268; Jan. 21.
- Toy pistol. J. Oshman. 147,375; Aug. 26.
- Toy, Pounding. S. L. Beder. 146,245; Jan. 21.
- Toy, Pull. C. H. Keller. 146,741; May 6.
- Toy rabbit. M. Berger. 146,428; Mar. 4.
- Toy, Radar. G. W. Kaplan. 147,557; Sept. 23.
- Toy, Spinning. H. A. Tomarin. 147,701; Oct. 14.
- Toy steamboat. O. F. Larsen, Jr. 147,339; Aug. 19.
- Toy, Stuffed locomotive. H. N. Stefany. 146,324; Feb. 4.
- Toy tractor. W. G. Borders. 147,717; Oct. 21.
- Toy trailer. O. F. Larsen, Jr. 146,510; Mar. 25.
- Toy, Trundle. J. T. Armbruster. 146,332; Feb. 11.
- Toy, Trundle. J. Hill. 146,955; June 24.
- Toy, Twirling. E. L. Weinberger. 146,273; Jan. 21.
- Toy, Walking pull. W. Dorr. 148,054; Dec. 9.
- Toy, Wheeled. R. L. McCormack. 146,742; May 6.
- Toy, Wheeled vehicle. E. Nass. 148,086; Dec. 9.
- Toy, Whirligig. H. R. Reynolds and I. Montana. 147,301; Aug. 12.
- Toy, Whirling. R. F. Summers. 146,814; May 20.
- Toy, Wind propelled. P. Wagner. 148,263; Dec. 30.
- Tractor. H. C. Roths. 146,947; June 17.
- Tractor. E. S. Steel. 148,040; Dec. 2.
- Trailer and boat or similar article, Combination. G. W. Patterson. 146,232; Jan. 14.
- Trailer, Boat luggage. W. O. Foster. 147,038; July 8.
- Transcriber listening device. R. L. Stone and E. F. Rutan. 146,992; June 24.
- Tray. A. Bach. 147,360; Aug. 26.
- Tray. H. Herzog. 147,237; Aug. 5.
- Tray. M. I. Lester, A. Braver, and G. Lester. 147,673; Oct. 14.
- Tray and figure, Combined ash. M. Reikosky. 148,090; Dec. 9.
- Tray, Ash. E. L. Beckwith. 147,829; Nov. 11.
- Tray, Ash. E. C. Dean. 147,720; Oct. 21.
- Tray, Ash. P. S. Harper. 148,236; Dec. 30.
- Tray, Ash. D. C. Henderson. 147,849; Nov. 11.
- Tray, Ash. H. A. Quigley. 146,267; Jan. 21.
- Tray, Ash. W. L. Russo. 147,870; Nov. 11.
- Tray, Ash. E. R. Tibbets. 148,261; Dec. 30.
- Tray, Card table. P. J. Ognibene. 147,596; Sept. 30.
- Tray for smoking pipes. J. J. Magnelli and L. Mone. 146,670; Apr. 22.
- Tray, Hostess. M. L. Sturm. 147,088-90; July 8.
- Tray, Hostess. C. E. Waltman. 147,094; July 8.
- Tray, Individual hand party. T. Farmer. 147,643; Sept. 23.
- Tray, Make-up. G. G. Greger. 147,009; July 1.
- Tray or similar article. S. S. Schmidt. 146,687; Apr. 22.
- Tray or similar article, Food. I. B. Bates. 146,697; Apr. 29.
- Tray or the like, Tie. J. C. Foster. 148,221; Dec. 30.
- Tray, Relish. H. I. Kleinberg. 147,909; Nov. 18.
- Tray, Snack. T. F. Sherbloom. 147,764; Oct. 28.
- Tray, Tie display. B. E. Spies and E. W. Baskette. 147,821; Nov. 4.
- Tray, Watch cleaning. R. R. White. 147,095; July 8.
- Tree ornament, Christmas. C. R. Blickle. 146,399-403; Feb. 25.
- Tree ornament, Christmas. C. R. Blickle. 146,424; Feb. 25.
- Tricycle. A. E. Sukovich. 146,193; Jan. 7.
- Trimming or similar article, Embroidered. H. Tobler. 146,289-91; Jan. 28.
- Trimming or the like, Embroidered. B. Friedman. 146,903-4; June 10.
- Tripod. E. W. Billings, Jr. 146,785; May 20.
- Tripod head, Photographic. R. S. Gans. 146,258; Jan. 21.
- Tripod or similar article. L. Bentzman. 146,167; Jan. 7.
- Trough for lighting fixture, Luminous. C. Shuler and H. L. van Doren. 148,191; Dec. 23.
- Truck, Highway straddle. H. N. Dimick. 146,560; Apr. 8.
- Truck, Milk. C. I. Brockriede. 147,637; Oct. 14.
- Truck or similar article, Milk. O. H. Brickson. 146,848; June 3.
- Truck, Service motor. K. W. Couse. 147,841; Nov. 11.
- Truck, Straddle. H. N. Dimick. 146,559; Apr. 8.
- Truck, Tank. W. W. Samselle. 147,817; Nov. 4.
- Tub or similar article, Double drain. T. R. Smith. 147,819; Nov. 4.
- Turntable top, Roll. G. Draper and B. F. Warner. 147,842; Nov. 11.
- Typewriter. F. S. Grover. 146,407; Feb. 25.
- Unit for an oil bar, Dispensing. E. G. Fossum. 146,648; Apr. 22.
- Utensil, Cooking. W. A. Beck. 146,734; May 6.
- Vacuum cleaner. R. J. Wolfe. 146,841; May 27.
- Valve. A. H. Boileau. 148,102; Dec. 16.
- Vanity and radio or similar article, Combination. J. J. Swartzmiller. 146,624; Apr. 15.
- Vanity or similar article. G. E. Obrig. 146,374; Feb. 18.
- Vaporizer or similar article. C. W. Gibson. 146,906; June 10.
- Vase. E. L. Fitzgerald. 147,121; July 15.
- Vase. J. Gmeindl. 146,566; Apr. 8.
- Vase. J. Gmeindl. 146,600; Apr. 15.
- Vase, Statuette. I. G. Marshall. 147,466; Sept. 9.
- Vehicle. J. E. Donaldson. 146,645; Apr. 22.
- Vehicle. A. Hecht. 146,542-3; Apr. 1.
- Vehicle. A. A. Turton. 146,931; June 10.
- Vehicle and package carrier, Combined child's. P. Moran. 147,135; July 15.
- Vehicle and parcel carrier, Combination child's. W. J. Zepp. 146,695; Apr. 22.
- Vehicle, Armored automotive. C. M. Smart. 146,238; Jan. 14.
- Vehicle, Automotive. R. P. Sweger. 146,884; June 3.
- Vehicle body, Trailer. E. Mullen, L. H. Garman, and J. C. Jordan. 148,250; Dec. 30.
- Vehicle, Child's. W. D. Hicks. 147,850; Nov. 11.
- Vehicle, Child's. H. P. Joyce and M. Kreppel. 147,556; Sept. 23.
- Vehicle, Foot-propelled. O. L. Woodson. 148,205; Dec. 23.
- Vehicle, Juvenile. W. I. Smith. 147,423; Sept. 2.



- Vehicle, Juvenile. W. I. Smith. 148,194; Dec. 23.  
 Vehicle, Mobile service. R. O. Borst. 147,105; July 15.  
 Vehicle, Rail. O. Kuhler. 146,545; Apr. 1.  
 Vehicle, Railway. S. W. Kay. 146,313; Feb. 4.  
 Vehicle, Railway. O. Kuhler. 147,132; July 15.  
 Vehicle, Road. T. W. Sebern. 146,879; June 3.  
 Vehicle, Wheeled. H. M. Kinslow. 146,365; Feb. 18.  
 Velocipede. H. D. Rockwell. 147,508; Sept. 16.  
 Velocipede and trailer, Combined. W. W. Hoople. 147,238; Aug. 5.  
 Vending machine, Newspaper. G. T. Hemmeter. 146,177; Jan. 7.  
 Verifier. G. H. Kress. 147,247; Aug. 5.  
 Vest or similar article, Hunting and fishing. H. M. Hutchinson. 147,127-8; July 15.  
 Viewer, Stereoscopic. F. Gilbert. 147,846; Nov. 11.  
 Vise, Precision jeweler's. R. A. Nelson. 147,564; Sept. 23.  
 Wagon. G. W. Florian. 147,645; Oct. 14.  
 Wagon. J. D. Wheeler. 148,265; Dec. 30.  
 Walker. E. T. Batko. 147,633; Oct. 14.  
 Walker or similar article, Baby. J. D. Cuccio. 147,320; Aug. 19.  
 Wallpaper. A. H. Jacobs and T. Anderson. 146,361-2; Feb. 18.  
 Wallpaper border or similar article. A. Westrate. 146,393-7; Feb. 18.  
 Wallpaper border or similar article. A. Westrate. 147,032; July 1.  
 Wallet. M. C. Dingman. 146,278; Jan. 28.  
 Wallet and key holder, Combined. M. Block. 147,225; Aug. 5.  
 Wardrobe and bath unit, Combined infant. L. B. Kneeland. 146,861; June 3.  
 Warmer, Bun. L. Blazey. 147,950; Nov. 25.  
 Washbasin. B. E. Jones. 148,245; Dec. 30.  
 Washstand and vanity, Combined. O. Kuhler. 147,759; Oct. 28.  
 Washing machine. G. W. Walker. 146,341; Feb. 11.  
 Watch and bracelet, Combined wrist. C. Arpels. 147,103; July 15.  
 Watch case, Wrist. A. Gates. 147,546; Sept. 23.  
 Watch or similar article, Lapel. F. E. Lauro. 146,922; June 10.  
 Wave machine, Permanent. H. D. Chapman. 147,319; Aug. 19.  
 Weathervane. R. A. Mueller. 148,085; Dec. 9.  
 Weeder, Garden. T. E. Day. 148,215; Dec. 30.  
 Welding machine, Resistance. J. J. Panik. 147,348; Aug. 19.  
 Whatnot. D. Sorcher. 146,196; Jan. 7.  
 Wheel, Airplane control. H. A. Benzel. 147,608; Oct. 7.  
 Wheel, Airplane control. J. V. Vevirit. 147,702; Oct. 14.  
 Wheel, Airplane control. T. F. Young. 147,712; Oct. 14.  
 Wheelbarrow. H. T. Free, J. P. Robertson, and S. Merz. 148,018; Dec. 2.  
 Whistle, Multitone. J. Thompson. 146,837; May 27.  
 Wrist watch and holder therefor, Combined. A. D. Chifari. 146,300; Feb. 4.  
 Xylophone or similar article. A. Frohman. 148,019; Dec. 2.  
 Yoke, Lace. H. Kaufman. 146,969; June 24.



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# LIST OF PLANT INVENTIONS

- Apple tree. M. Bazzanella. 722; Jan. 7.  
 Apple tree. A. F. Etter. 723; Mar. 4.  
 Apple tree. E. C. Ohl. 765; Oct. 14.  
 Apricot tree. O. H. Helder. 751; Aug. 12.  
 Avocado tree. L. W. Sherwood. 773; Dec. 30.  
 Azalea plant. M. A. Dauernheim. 733-4; Apr. 1.  
 Camellia plant. E. H. Carter. 766; Nov. 18.  
 Carnation plant. W. A. Hoyne. 771; Dec. 16.  
 Carnation plant. L. J. Marmon. 767; Nov. 25.  
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 Cherry tree. O. R. Meyer. 764; Oct. 7.  
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 Dianthus caryophyllus plant. P. R. Hague. 747; July 22.  
 Lilac plant. W. B. Clarke. 754; Aug. 26.  
 Lilac plant. W. B. Clarke. 768; Dec. 16.  
 Maple tree. P. Barbier. 735; May 6.  
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 Nephrolepis plant. C. J. Niedfeldt. 772; Dec. 16.  
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 Pentstemon plant. C. P. Malmo. 744; July 22.  
 Phlox plant. J. L. Legendre. 756; Aug. 26.  
 Rose plant. E. S. Boerner. 738; June 10.  
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 Rose plant. R. L. Byram. 749; July 29.  
 Rose plant. M. Denoyel. 725; Mar. 25.  
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 Rose plant. J. T. Hildebrandt. 755; Aug. 26.  
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 Rose plant. G. A. van Rossem. 732; Mar. 25.  
 Rose plant. J. E. Wiltgen. 740; July 1.  
 Saintpaulia plant. R. G. Baxter. 769-70; Dec. 16.  
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## LIST OF DISCLAIMERS ARRANGED BY INVENTIONS

- Abrasive articles and method of making the same. George P. Netherly, Bert S. Cross, and Gilbert R. Anderson. No. 2,357,348; date of patent Sept. 5, 1944; disclaimer filed July 18, 1947; v. 601; p. 527.
- Aldol, Continuous production of. Floyd J. Metzger. No. 2,376,070; date of patent May 15, 1945; disclaimer filed Nov. 4, 1947; v. 605; p. 178.
- Altitude compensator. William A. Marshall, Jr. No. 2,381,358; date of patent Aug. 7, 1945; disclaimer filed Oct. 2, 1947; v. 604; p. 225.
- Antifoaming composition. Robert G. Larsen and Hyman Diamond. No. 2,375,007; date of patent May 1, 1945; disclaimer filed Apr. 7, 1947; v. 598; p. 10.
- Antioxidants. Philip T. Paul. No. 2,363,687; date of patent Nov. 28, 1944; disclaimer filed Jan. 14, 1947; v. 595; p. 302.
- Artificial tooth. Simon Myerson. (Two cases.) Re. No. 2,233,1 and No. 2,202,713; date of patent June 8, 1934 and May 28, 1940; disclaimers filed Mar. 28, 1947; v. 597; p. 606.
- Attaching heels to shoes, Method of and machine for. Francis L. Brandt. No. 2,286,195; date of patent June 16, 1942; disclaimer filed May 6, 1947; v. 599; p. 11.
- Azeotropic distillation. Ward J. Bloomer. No. 2,380,019; date of patent July 10, 1945; disclaimer filed Nov. 27, 1946; v. 594; p. 1.
- Blanket, Household. Robert Amory. No. 2,208,533; date of patent July 16, 1940; disclaimer filed Jan. 2, 1947; v. 594; p. 424.
- Bradenhead. Cicero C. Brown and Robert L. Carruthers. No. 2,291,143; date of patent July 28, 1942; disclaimer filed Mar. 6, 1947; v. 597; p. 150.
- Braking system for induction motors. Harry L. Wilcox. No. 2,233,501; date of patent Mar. 4, 1941; disclaimer filed Sept. 23, 1947; v. 603; p. 541.
- Carburetor. Albert L. Thompson. No. 2,410,758; date of patent Nov. 5, 1946; disclaimer filed Aug. 29, 1947; v. 603; p. 20.
- Catalytic processes, Method and apparatus for. Wayne C. Edmister. No. 2,378,542; date of patent June 19, 1945; disclaimer filed July 7, 1947; v. 601; p. 152.
- Checking station for self-service stores. Herbert N. Bradley. No. 2,317,438; date of patent Apr. 27, 1943; disclaimer filed May 19, 1947; v. 599; p. 538.
- Combustion chamber in cylinder heads of internal combustion engines. Jean A. H. Barkeij. (Two cases.) Nos. 2,145,577 and 2,191,746; date of patent Jan. 31, 1939 and Feb. 27, 1940; disclaimers filed Mar. 17, 1947 and Mar. 24, 1947; v. 598; pp. 10 and 332.
- Communication system. Clyde W. Baird. No. 2,370,388; date of patent Feb. 27, 1945; disclaimer filed Jan. 2, 1947; v. 595; p. 302.
- Control circuit. John R. Mahoney. No. 2,404,971; date of patent July 30, 1946; disclaimer filed May 24, 1947; v. 599; p. 538.
- Control for internal combustion engines or the like. Francis W. Truesdell. No. 2,358,363; date of patent Sept. 19, 1944; disclaimer filed Mar. 18, 1947; v. 597; p. 306.
- Control system. Walter O. Lum. No. 1,944,988; date of patent Jan. 30, 1934; disclaimer filed Jan. 15, 1947; v. 595; p. 302.
- Cores for electrical induction apparatus, Method of producing. Edwin C. Mulcahy. No. 2,374,449; date of patent Apr. 24, 1945; disclaimer filed May 22, 1947; v. 599; p. 538.
- Corrosion protection of metals. Ellis R. White. No. 2,368,607; date of patent Jan. 30, 1945; disclaimer filed July 5, 1947; v. 601; p. 8.
- Cotton wadding and product thereof, Method of treating. George A. Cruickshank. No. 2,327,250; date of patent Aug. 17, 1943; disclaimer filed Oct. 15, 1947; v. 605; p. 178.
- Coupling. John N. Wolfram. No. 2,304,390; date of patent Dec. 8, 1942; disclaimer filed Jan. 28, 1947; v. 596; p. 144.
- Depilatory. Ralph L. Evans and Everett G. McDonough. No. 2,352,524; date of patent June 27, 1944; disclaimer filed Feb. 6, 1947; v. 596; p. 8.
- Destructible hollow form. Lillian L. Greneker. No. 2,369,892; date of patent Feb. 20, 1945; disclaimer filed June 19, 1947; v. 600; p. 505.
- Discharge apparatus, Electric. Donald P. Faulk. (Two cases.) Nos. 2,300,538 and 2,300,539; date of patent Nov. 3, 1942; disclaimers filed Nov. 12, 1947; v. 605; p. 720.
- Distillation of fatty acids. John F. Murphy. No. 2,361,411; date of patent Oct. 31, 1944; disclaimer filed Oct. 7, 1947; v. 604; p. 225.
- Electromagnetic apparatus. Martin P. Winther. No. 2,367,163; date of patent Jan. 9, 1945; disclaimer filed Aug. 13, 1947; v. 602; p. 512.
- Electron discharge device. Oliver H. Fulton, Jr. No. 2,396,170; date of patent Mar. 5, 1946; disclaimer filed Jan. 28, 1947; v. 595; p. 472.
- Electron discharge device. Ilya E. Mouromtseff. No. 2,360,707; date of patent Oct. 17, 1944; disclaimer filed May 16, 1947; v. 599; p. 348.
- Electronic tube. William W. Eitel and Jack A. McCullough. No. 2,401,059; date of patent May 28, 1946; disclaimer filed Dec. 20, 1946; v. 594; p. 295.
- Fabrics, Method and apparatus for making unwoven and composite. Fred W. Manning. No. 2,336,745; date of patent Dec. 14, 1943; disclaimer filed Nov. 20, 1947; v. 605; p. 371.
- Fabrics, Method and apparatus for spinning unwoven. Fred W. Manning. No. 2,336,743; date of patent Dec. 14, 1943; disclaimer filed Nov. 20, 1947; v. 605; p. 371.
- Feather picking apparatus for towels and the like. George R. Hunt. No. 2,300,157; date of patent Oct. 27, 1942; disclaimer filed Feb. 26, 1947; v. 596; p. 447.
- Firearm. Walter L. Finlay and Gilbert E. Hutchinson. No. 2,398,298; date of patent Apr. 9, 1946; disclaimer filed May 17, 1947; v. 599; p. 164.
- Fire extinguishing system, Aircraft. Charles H. Lindsay and Alexander E. Weaver. No. 2,399,553; date of patent Apr. 30, 1946; disclaimer filed Feb. 18, 1947; v. 596; p. 289.
- Flame failure safeguard. Elihu C. Thomson. No. 2,416,781; date of patent Mar. 4, 1947; disclaimer filed Oct. 23, 1947; v. 605; p. 20.
- Fluid pressure control. Charles M. Kendrick. No. 2,304,831; date of patent Dec. 15, 1942; disclaimer filed Dec. 26, 1946; v. 595; p. 302.
- Food product and method. Lambert D. Johnson, Nathan F. True, and Harry H. Engel. No. 1,990,329; date of patent Feb. 5, 1935; disclaimer filed July 15, 1947; v. 601; p. 332.
- Frequency electron discharge device, Ultra-high. Georges P. Chevigny. No. 2,333,295; date of patent Nov. 2, 1943; disclaimer filed Jan. 16, 1947; v. 595; p. 302.
- Frequency measuring apparatus and method. High. Malcolm Ferris. No. 2,265,637; date of patent Dec. 9, 1941; disclaimer filed Mar. 27, 1947; v. 597; p. 606.
- Galvanometer. Perry A. Borden. No. 2,368,701; date of patent Feb. 6, 1945; disclaimer filed Mar. 18, 1947; v. 597; p. 306.
- Gas solidifying apparatus. Harry W. Cole and Malcolm W. McLaren. No. 2,025,698; date of patent Dec. 24, 1935; disclaimer filed Jan. 14, 1947; v. 595; p. 302.
- Gearing. Charles C. Davis. No. 2,307,394; date of patent Jan. 5, 1943; disclaimer filed Feb. 13, 1947; v. 596; p. 144.
- Gearing leverage, Variable. Arthur P. Woods. No. 2,305,835; date of patent Dec. 22, 1942; disclaimer filed Feb. 13, 1947; v. 596; p. 144.
- Grinder and caliper, Combination precision. Harry B. Barrett. No. 2,187,962; date of patent Jan. 23, 1940; disclaimer filed July 16, 1947; v. 601; p. 152.
- Hard metal alloy, especially for tools. Paul Schwarzkopf. Re. No. 22,166; date of patent Aug. 25, 1942; disclaimer filed Jan. 15, 1947; v. 595; p. 145.
- Hard metal alloy, Method of producing a. Paul Schwarzkopf. Re. No. 22,074; date of patent Apr. 14, 1942; disclaimer filed Jan. 15, 1947; v. 595; p. 145.
- Hard metal alloys, especially for tools, Production of. Paul Schwarzkopf. Re. No. 22,207; date of patent Oct. 20, 1942; disclaimer filed Jan. 15, 1947; v. 595; p. 146.
- Hard metal compositions, Process for manufacturing. Paul Schwarzkopf. No. 2,356,009; date of patent Aug. 15, 1944; disclaimer filed Jan. 15, 1947; v. 595; p. 146.
- Hard metal tool alloy. Paul Schwarzkopf. Re. No. 22,073; date of patent Apr. 14, 1942; disclaimer filed Jan. 15, 1947; v. 595; p. 145.
- Heat controller, Electric. William B. Elmer. No. 2,182,048; date of patent Dec. 5, 1939; disclaimer filed Mar. 13, 1947; v. 597; p. 150.
- Heating means. Millard M. Greer. No. 2,274,445; date of patent Feb. 24, 1942; disclaimer filed Sept. 16, 1947; v. 603; p. 541.
- Hydrocarbon conversion. Charles L. Thomas. No. 2,387,477; date of patent Oct. 23, 1945; disclaimer filed July 11, 1947; v. 601; p. 527.



- Hydrogen fluoride alkylation process. John O. Iverson. No. 2,378,636; date of patent June 19, 1945; disclaimer filed July 11, 1947; v. 601; p. 527.
- Implement construction. Rex B. Hitchcock and William C. Rosenthal. No. 2,376,539; date of patent May 22, 1945; disclaimer filed Mar. 19, 1947; v. 597; p. 459.
- Insulating material, Flexible. Lawrence R. Hill. No. 2,320,866; date of patent June 1, 1943; disclaimer filed Dec. 13, 1946; v. 594; p. 152.
- Magnesia from dolomite, Method of separating. Wallace E. Wing. No. 2,386,027; date of patent Oct. 2, 1945; disclaimer filed Aug. 2, 1947; v. 601; p. 527.
- Measuring tape. Adolf W. Keuffel. No. 2,354,756; date of patent Aug. 1, 1944; disclaimer filed Jan. 23, 1947; v. 596; p. 289.
- Message exchange system, Automatic. Edward E. Kleinschmidt. Re. No. 22,723; date of patent Feb. 19, 1946; disclaimer filed Apr. 14, 1947; v. 598; p. 164.
- Methyl silicon halides and their production. James F. Hyde. No. 2,413,049; date of patent Dec. 24, 1946; disclaimer filed Apr. 8, 1947; v. 598; p. 10.
- Methylene-bis-2 hydroxy-3 naphthoates. Bruno Puetzer. No. 2,397,903; date of patent Apr. 2, 1946; disclaimer filed Aug. 22, 1947; v. 603; p. 20.
- Mounting and operating mechanism for mud guns. Edgar E. Brosius. No. 2,393,307; date of patent Jan. 22, 1946; disclaimer filed Apr. 10, 1947; v. 598; p. 332.
- Obstructions in wells, means for measuring the location of. Cranford P. Walker. No. 2,156,519; date of patent May 2, 1939; disclaimer filed Feb. 4, 1947; v. 596; p. 144.
- Oil deposits, Method of locating. Walter A. Kelly. No. 2,266,556; date of patent Dec. 16, 1941; disclaimer filed Oct. 27, 1947; v. 605; p. 371.
- Optical sheet, Flexible lenticular. Philip V. Palmquist. No. 2,354,048; date of patent July 18, 1944; disclaimer filed Jan. 15, 1947; v. 596; p. 8.
- Oscillator, Ultra high frequency. Hia E. Mourontseff and George M. Dinnick. No. 2,396,802; date of patent Mar. 19, 1946; disclaimer filed Sept. 25, 1947; v. 603; p. 541.
- Preserving biological substances, Method and apparatus for. Heinz A. Siedentopf. No. 2,380,339; date of patent July 10, 1945; disclaimer filed Nov. 26, 1947; v. 605; p. 720.
- Pressure cooker. Edward H. Wittenberg. No. 2,218,188; date of patent Oct. 15, 1940; disclaimer filed Jan. 18, 1947; v. 595; p. 472.
- Pressure measuring device. Walter V. Hobbs. No. 2,388,542; date of patent Nov. 6, 1945; disclaimer filed July 19, 1947; v. 601; p. 527.
- Pressure relief device. Alfred Vischer, Jr. No. 2,301,724; date of patent Nov. 10, 1942; disclaimer filed Aug. 27, 1947; v. 602; p. 676.
- Propeller deicer. Lynn A. Williams, Jr., and Henry J. De N. McCollum. No. 2,418,682; date of patent Apr. 8, 1947; disclaimer filed Oct. 28, 1947; v. 605; p. 178.
- Recorder and control circuits. Albert J. Williams, Jr. No. 2,113,164; date of patent Apr. 5, 1938; disclaimer filed June 2, 1947; v. 600; p. 175.
- Recording and reproducing system, Automatic. William S. Halstead. No. 2,385,701; date of patent Sept. 25, 1945; disclaimer filed Aug. 19, 1947; v. 602; p. 362.
- Recording device. George C. Engel, Leslie S. Lynch, Jr., and Frank L. Eidmann, deceased, by Ethel I. Eidmann, executrix. No. 2,392,467; date of patent Jan. 8, 1946; disclaimer filed May 8, 1947; v. 599; p. 348.
- Refrigerating apparatus. Richard S. Gaugler. No. 2,350,347; date of patent June 6, 1944; disclaimer filed Mar. 17, 1947; v. 597; p. 306.
- Relay system, Half-cycling protective. John R. Fetcher and Robert S. Phair. No. 2,394,903; date of patent Feb. 12, 1946; disclaimer filed Aug. 20, 1947; v. 602; p. 512.
- Resinous composition and method of preparing same. Donald E. Edgar and Paul Robinson. No. 2,191,957; date of patent Feb. 27, 1946; disclaimer filed June 20, 1947; v. 600; p. 505.
- Safety switch. Harold A. Mantz. No. 2,340,197; date of patent Jan. 25, 1944; disclaimer filed May 22, 1947; v. 599; p. 347.
- Secrecy communication system. Constantin S. Szegho. No. 2,401,985; date of patent June 11, 1946; disclaimer filed Jan. 20, 1947; v. 595; p. 472.
- Separator for strip feeding mechanism, Feed band. Carl R. Mabon. No. 2,208,994; date of patent July 23, 1940; disclaimer filed July 24, 1947; v. 602; p. 512.
- Shirt and invisible suspenders, Combination. Albert Leighton. No. 1,986,508; date of patent Jan. 1, 1935; disclaimer filed June 30, 1947; v. 600; p. 665.
- Sighting mechanism. Waldo W. Willard. No. 2,408,356; date of patent Sept. 24, 1946; disclaimer filed Mar. 11, 1947; v. 597; p. 150.
- Signaling system. Frank E. Blount. No. 2,355,903; date of patent Aug. 15, 1944; disclaimer filed Oct. 31, 1947; v. 605; p. 178.
- Sleeve press. George R. Bicknell and Fred A. Heidenfelder. No. 2,365,448; date of patent Dec. 19, 1944; disclaimer filed July 18, 1947; v. 601; p. 332.
- Slide fastener elements, Manufacture of. Frederick Ulrich. No. 2,221,740; date of patent Nov. 12, 1940; disclaimer filed Aug. 8, 1947; v. 602; p. 512.
- Sound recording and reproducing machine. Remotely controlled. Henry P. Clausen. No. 2,375,525; date of patent May 8, 1945; disclaimer filed Dec. 10, 1946; v. 594; p. 1.
- Sound recording machine. Henry P. Clausen. No. 2,354,739; date of patent Aug. 1, 1944; disclaimer filed Dec. 10, 1946; v. 594; p. 1.
- Stacker-accumulator. Harold S. Labombarde. No. 2,391,170; date of patent Dec. 18, 1945; disclaimer filed Apr. 16, 1947; v. 598; p. 332.
- Station identifier. Harold A. Wahlstrand. No. 2,390,672; date of patent Dec. 11, 1945; disclaimer filed Nov. 15, 1946; v. 596; p. 289.
- Telegraph system, Multioffice. Frank L. Currie and Charles F. Stearns. No. 2,390,517; date of patent Dec. 11, 1945; disclaimer filed July 31, 1947; v. 602; p. 512.
- Telephone system. Linus E. Kittredge. No. 2,370,736; date of patent Mar. 6, 1945; disclaimer filed Mar. 5, 1947; v. 597; p. 150.
- Telephone system. Edward S. Peterson. No. 2,239,902; date of patent Apr. 29, 1941; disclaimer filed Mar. 27, 1947; v. 597; p. 606.
- Television control system. Sanford F. Essig. No. 2,407,485; date of patent Sept. 10, 1946; disclaimer filed July 30, 1947; v. 601; p. 527.
- Television signal-translating system. John C. Wilson. No. 2,295,443; date of patent Sept. 8, 1942; disclaimer filed May 7, 1946; v. 597; p. 606.
- Thermionic tube. William W. Eitel and Jack A. McCullough. No. 2,400,080; date of patent May 14, 1946; disclaimer filed Dec. 20, 1946; v. 594; p. 295.
- Thermoelectric safety shutoff device and cock, Combined. Clarence Wantz. No. 2,372,537; date of patent Mar. 27, 1945; disclaimer filed May 22, 1947; v. 599; p. 538.
- Thermostat. Harold M. Wilson. No. 2,338,474; date of patent Jan. 4, 1944; disclaimer filed Feb. 14, 1947; v. 596; p. 144.
- Tools, Manufacture of diamond. Ignatius A. Rohrig and Norman A. Kerstein. No. 2,382,666; date of patent Aug. 14, 1945; disclaimer filed Jan. 31, 1947; v. 596; p. 8.
- Translating system and method, Electrical. Russell H. Varian. No. 2,242,275; date of patent May 20, 1941; disclaimer filed Aug. 5, 1947; v. 602; p. 512.
- Trimmer. Roger A. Ruth. No. 2,378,249; patent dated June 12, 1945; disclaimer filed June 11, 1947; v. 600; p. 335.
- Tuner, Automatic. LeRoy J. Leishman. No. 2,162,282; date of patent June 13, 1939; disclaimer filed Dec. 28, 1946; v. 594; p. 424.
- Tuning mechanism. Ludwig J. Fichter and Bertram A. Schwarz. No. 2,362,690; date of patent Nov. 14, 1944; disclaimer filed Apr. 12, 1947; v. 598; p. 164.
- Water purification. Walter W. Durant. No. 2,404,367; date of patent July 23, 1946; disclaimer filed June 28, 1947; v. 601; p. 8.
- Water softening apparatus. Andrew J. Dotterweich. No. 1,954,405; date of patent Apr. 10, 1934; disclaimer filed Apr. 26, 1947; v. 598; p. 451.
- Well drilling apparatus. Spencer W. Long. No. 2,306,130; date of patent Dec. 22, 1942; disclaimer filed Oct. 10, 1947; v. 604; p. 398.
- Well tool. Donald B. Hooser. No. 2,392,244; date of patent Jan. 1, 1946; disclaimer filed Oct. 31, 1947; v. 605; p. 179.
- Wells, Apparatus and method for cementing. Erd V. Crowell. No. 2,223,442; date of patent Dec. 3, 1940; disclaimer filed Feb. 19, 1947; v. 597; p. 150.
- Wells, Apparatus for cementing. Erd V. Crowell. No. 2,177,172; date of patent Oct. 24, 1939; disclaimer filed Feb. 19, 1947; v. 597; p. 150.
- Wheel balancing weight. Virgil L. Du Sang. No. 2,029,561; date of patent Feb. 4, 1936; disclaimer filed July 23, 1947; v. 601; p. 527.
- Wood finishing. Watkins W. Partee and Milton Gray. No. 2,341,161; date of patent Feb. 8, 1944; disclaimer filed Sept. 22, 1947; v. 603; p. 541.



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- Alden, In re. 599 O. G. 157.  
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 Waite, In re. 596 O. G. 5.  
 Welblund et al., In re. 604 O. G. 588.  
 West, Herbert J., In re. 602 O. G. 177.  
 Wiegand, Edwin L., Company v. Ooms, Commissioner of  
 Patents. 595 O. G. 299.  
 Williford, In re. 598 O. G. 327.  
 Winnek, In re. 602 O. G. 511.  
 Winton, In re. 601 O. G. 5.









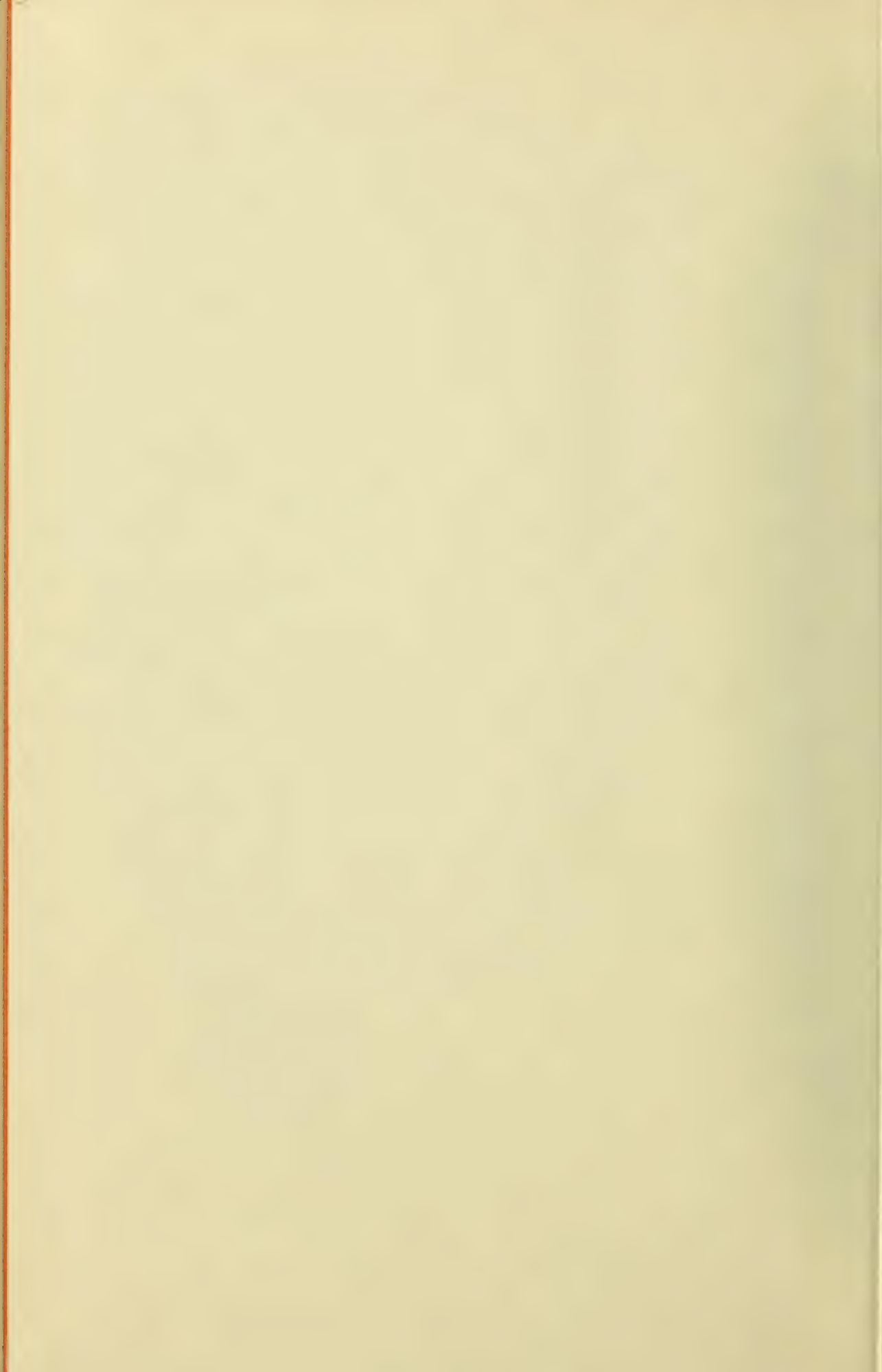


























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